

First Choice for Security Professionals

**HIKVISION**



# PRODUCT CATALOG

201203V07

[www.hikvision.com](http://www.hikvision.com)

# About Us

Hikvision Digital Technology Co., Ltd. is one of the world's leading suppliers of video surveillance products and solutions. Established in 2001, Hikvision has grown from a small company with 28 people into a global enterprise with more than 6,000 employees, including 2,000 R&D engineers. With the largest R&D team in the industry and capability of continuous innovation, Hikvision's product offerings include hybrid DVRs, NVRs, standalone DVRs, digital video servers, compression cards, high-definition IP cameras and speed domes. These products are used in more than 100 countries and have been used to secure various security applications around the world.

Head quartered in Hangzhou, China, Hikvision has expanded to a global operation with regional branch offices in Los Angeles covering the Americas; Amsterdam covering Europe, and Dubai for the Middle East; joint ventures in India and Russia; as well as a maintenance center in Hong Kong.

Rapid growth and exceptional products have seen Hikvision recognized as the No.1 DVR supplier according to IMS Research's World Market for CCTV and Video Surveillance Equipment Report 2011 and listed for three years in a row in Security 50, a market survey recognizing the top 50 security vendors in the global security market (No. 5 in 2011). Hikvision is now publicly listed in Shenzhen Stock Exchange with market capitalization of US \$5.6 billion.



**HIKVISION**



Hikvision IR Speed Domes

DAY

NIGHT

**360°**  
VISION

**SO NOTHING HIDES  
DAY & NIGHT**

### **Hikvision Speed Dome Cameras**

- H.264 and MJPEG Dual Streaming
- Wide Dynamic Range and Privacy Masking
- 23x - 36x Optical Zoom Selectable
- Intelligent 3D Positioning
- 3D Digital Noise Reduction
- Advanced IR Led Array Technology
- Up to 80m IR distance
- Open IP Standards

# HIKVISION



## Experience the Promise of **HD VIDEO QUALITY** - Anywhere Anytime -

### Hikvision HD Network Cameras

- Multi mega-pixel resolution for HD video recording
- Industrial-class WDR technology
- Super low-light capability
- Supreme image clarity with 3D DNR technology
- Vandal-proofed housing for all dome factors
- Advanced IR LED
- Conforms to ONVIF and PSIA





## Performance that Goes **BEYOND YOUR EXPECTATIONS**

### Hikvision DVR Series

#### Various redundancies to improve reliability:

- RAID disk array
- Dual systems / Dual Gigabit NIC

#### Ease to use:

- Flip-down panel for easy HDD installation and replacement
- Quick installation wizard with user-friendly interface
- Flexible HDD quota management

#### Recording, Capture and Playback

- Instant playback
- Smart search, playback and backup of record files by events and tags
- Support reverse play of recorded files frame-by-frame
- Captures pictures by events, schedule or manual mode in JPEG format





## GET YOUR NEEDS MET WHEN SURVEILLANCE UPGRADES TO IP

### Hikvision NVR Series

Various redundancies to ensure maximum reliability:

- RAID disk array
- Dual systems
- Dual Gigabit NIC
- Dual-power supplies configurable redundancy features

Ease to use:

- Flip-down panel for easy HDD installation and replacement
- Quick installation wizard with user-friendly interface
- Plug-and-play with automatic IP assigning
- IPv6 supported

Network Functions:

- Up to 64 channel network camera recording capability
- Up to 128 concurrent user functionality
- QoS bandwidth management with different bandwidth for different channels

Protocol:

- Conforms to ONVIF and PSIA



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# Model Name Coding Rule

## Speed Dome

DS-2AM1-613X-B	DS-2	A	M	1-	6	1	3	X	-B
DS-2DF1-602H	DS-2	D	F	1-	6	0	2	H	
DS-2DF1-401H	DS-2	D	F	1-	4	0	1	H	
DS-2DF1-514F	DS-2	D	F	1-	5	1	4	F	
	①	②	③	④	⑤	⑥	⑦	⑧	

- ① "DS-2"——HIKVISION front-end product
- ② "A"—— Analog speed dome  
"D"—— Network speed dome
- ③ "F"—— High Speed dome  
"M"—— Medium speed dome
- ④ "6"—— 6 inch speed dome  
"4"—— 4 inch speed dome  
"5"—— 5 inch speed dome  
"7"—— IR speed dome
- ⑤ "1"—— Standard Definition Outdoor speed dome  
"0"—— Standard Definition Indoor speed dome  
"3"—— Standard Definition In-ceiling speed dome  
"7"—— 1.3 Megapixel High Definition Outdoor speed dome  
"70"—— 1.3 Megapixel High Definition Indoor speed dome  
"73"—— 1.3 Megapixel High Definition In-ceiling speed dome  
"8"—— 2 Megapixel High Definition Outdoor speed dome  
"80"—— 2 Megapixel High Definition Indoor speed dome  
"83"—— 2 Megapixel High Definition In-ceiling speed dome
- ⑥ The number stands for different camera modules with different optical zoom times
- ⑦ "X"—— Speed dome with new structure(For 4 inch and 6 inch standard definition speed dome)  
"H"—— Speed dome support DS-9000 series NVR(For 4 inch and 6 inch standard definition speed dome)  
"F"—— Built-in optical interface
- ⑧ "S"—— SDI interface  
"-B"—— Sony Drive for WDR

## Zoom Camera

DS-2DZ216MF	DS-2	D	Z	2		1		M	F	
DS-2CM282P-WD	DS-2	C	M	2		8	2	P		-WD
DS-2CZ2152P-IRA	DS-2	C	Z	2	16	5	2	P		-IRA
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

- ① "DS-2"——HIKVISION camera and dome
- ② "C"——Analog camera  
"D"——Network camera
- ③ "Z"——Zoom camera  
"M"——Zoom camera module
- ④ "2"——Zoom camera
- ⑤ "Default"——1st generation zoom camera  
"1"——2rd generation zoom camera
- ⑥ "0"—— 12 times optical zoom  
"1"——18 times optical zoom  
"3"——22 times optical zoom  
"5"——23 times optical zoom  
"8"——30 times optical zoom  
"9"——36 times optical zoom
- ⑦ "1"——420TVL  
"2"——540TVL  
"4"——650TVL
- ⑧ "P"——PAL signal system  
"N"——NTSC signal system  
"M"——Mega pixels
- ⑨ "F"——Support SD/SDHC card
- ⑩ "-WD"——Wide Dynamic Range  
"-PT1"——Constant speed PTZ with 100 meters IR Range  
"-PT2"——Constant speed PTZ  
"-PT3"——Constant speed PTZ with 200 meters IR Range  
"-PT4"——Variable speed PTZ  
"-IRA"——100 meters IR Range

## Analog Camera

DS-2CC176P-C	DS-2	C	C	1		7	6	P	-C
DS-2CC512N-IRA	DS-2	C	C	5		1	2	N	-IRA
DS-2CC1185P-A	DS-2	C	C	1	1	9	5	P	-A
DS-2CC5197P-VP	DS-2	C	C	5	1	9	7	P	-VP
	①	②	③	④	⑤	⑥	⑦	⑧	⑨

- ① "DS-2"—— HIKVISION front-end product
- ② "C"—— Color camera
- ③ "C"—— Analog camera
- ④ Structure  
"1"—— Analog box&bullet camera  
"5"—— Analog dome camera
- ⑤ Generation  
"Default"—— 1st generation analog camera  
"1"—— 2nd generation analog camera
- ⑥ Horizontal resolution  
"0"—— 420TVL  
"1"—— 480TVL  
"3"—— CMOS  
"7"—— 540TVL or 560TVL  
"8"—— 600TVL  
"9"—— 650TVL  
"A"—— 700TVL
- ⑦ Special features  
"3"—— Support OSD menu  
"5"—— Low illumination camera  
"6"—— 1/2" high light compensation camera  
"7"—— WDR camera  
"8"—— 1/3" high light compensation camera
- ⑧ Signal system  
"P"—— PAL signal system  
"N"—— NTSC signal system
- ⑨ Extended Information  
"-VP"—— Vandal proof housing  
"-VF"—— Vari-focal lens  
"-A"—— Support AC 24V / DC 12V  
"-C"—— Support AC100V-240V  
"-IR"—— Support IR  
"-IR1"—— 10 to 20 meters IR Range  
"-IR3"—— 30 to 40 meters IR Range  
"-IR5"—— 50 to 60 meters IR Range  
"-IRA"—— 100 to 110 meters IR Range  
"-IRT"—— IR with vari-focal lens  
"-MM"—— Mini structure  
"-PT"—— Build-in PTZ  
"-IPT"—— Build-in PTZ with 10 meters IR Range  
"-H"—— Heater  
"-DG"—— Pinhole camera  
"-BT"—— Mini bullet camera  
"-FD"—— UFO camera

## Network Camera

DS-2CD7133-E	DS-2	C	D	71	3	3			-E
DS-2CD762MF-FB	DS-2	C	D	7	6	2	M	F	-FB
DS-2CD8254F-EI	DS-2	C	D	82	5	4		F	-EI
DS-2CD893PFWDE	DS-2	C	D	8	9	3	P	FWD	-E
	①	②	③	④	⑤	⑥	⑦	⑧	⑨

- ① "DS-2"—— HIKVISION front-end product
- ② "C"—— Color camera
- ③ "D"—— Network camera
- ④ "7"—— Dome camera  
"8"—— Box camera  
"71"—— Mini dome camera  
"72"—— Outdoor dome camera  
"81"—— Mini cube camera  
"82"—— Bullet camera  
"83"—— Thermal camera
- ⑤ "3"—— VGA(640×480) resolution  
"5"—— 2 or 3 mega pixels resolution  
CMOS  
"6"—— 1.3 mega pixels resolution  
"7"—— 2 mega pixels resolution  
"8"—— 5 mega pixels resolution
- ⑥ "9"—— 4CIF resolution  
Different numbers stands for different sensor,
- ⑦ camera generation and expanded information  
"P"—— PAL signal system  
"N"—— NTSC signal system
- ⑧ "B"—— BNC output  
"F"—— Support SD/SDHC card
- ⑨ "WD"—— Wide Dynamic Range  
"-E"—— Power over Ethernet(PoE)  
"-W"—— Wi-Fi(802.11g/b/n)  
"-PT"—— Build-in PTZ  
"-I"—— Support IR  
"-H"—— Heater  
"-Z"—— Motorized VF lens  
"-IR"—— Support IR



# Model Name Coding Rule

## Model Name of DVR

DS-9016HFI-RH	DS-90	16	H	F	I-	R	H
DS-8104HWI-ST	DS-81	04	H	W	I-	S	T
	①	②	③	④		⑤	⑥

- ① "DS-xx" — Hikvision DS-7000/8000/9000 Series
- ② "01-16" — Number of Analog Cameras Connectable
- ③ "H" — H.264
- ④ "C" — CIF Resolution, Audio  
"V" — CIF Resolution, VGA Enhanced  
"D" — 2CF Resolution, Audio  
"F" — 4CIF Resolution, Audio  
"W" — WD1 Resolution, Audio  
"FH" — 2 Megapixels Resolution, Audio
- ⑤ "S" — SATA Disk  
"R" — RAID
- ⑥ "H" — HDMI Video Output  
"T" — VGA Output Enhanced

## Model Name of NVR

DS-9664NI-RH	DS-96	64	N	I-	R	H
DS-8608NI-ST	DS-96	08	N	I-	S	T
	①	②	③		④	⑤

- ① "DS-xx" — Hikvision DS-7000/8000/9000 Series
- ② "01-64" — Number of IP Cameras Connectable (7601NI-S model excluded)
- ③ "N" — NVR
- ④ "S" — SATA Disk  
"R" — RAID
- ⑤ "H" — HDMI Video Output  
"T" — VGA Output Enhanced

## Model Name of DVS

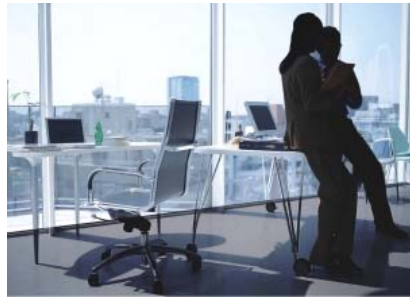
DS-6601HCI	DS-66	01	H	C	I
DS-6608HFI-SATA	DS-66	08	H	F	I- SATA
	①	②	③	④	⑤

- ① "DS-6x" — Hikvision DS-6000 Series DVS
- ② "01-64" — Number of Analog Cameras Connectable
- ③ "H" — H.264
- ④ "C" — CIF Resolution  
"F" — 4CIF Resolution  
"FH" — 2 Megapixels Resolution
- ⑤ "SATA" — SATA Disk  
"SD" — SD Card  
"JX" — Rack-mounted

# Features and Benefits

## WDR (Wide Dynamic Range)

The WDR function is intended to provide with clear image performance in strong backlight areas such as exterior light coming through a window or glass door. High contrast light conditions are no longer a problem when you need to capture detailed images.



Conventional Camera



WDR Camera



When ICR is on, camera is able to increase highly its light sensitivity in monochrome mode.

## ICR (Infrared Cut filter Removal)

An IR filter – or IR cut filter - is a color filter blocking the infrared light. In order to avoid unwanted side-effects caused by infrared light (as part of the natural ambient light) during image recordings in daylight mode, an IR Cut Filter is installed in front of the sensor. The filter is meant to prevent the incidence of light onto the image sensor.

## BLC (Backlight Compensation)

Backlight is the light behind the object of interest in a scene. Back Light Compensation BLC automatically brings more detail to darker areas of an image when bright light shining from behind obscures it and provides perfect exposure for an object in front of very strong back light. The electronic shutter of the camera basically adjusts its exposure to try to allow for more light to be allowed in the darker areas.



Conventional Camera



With BLC



## Privacy Mask

Privacy masking is a common term covering the need to restrict what can be seen by camera. It applies equally to image displayed in real time basis for surveillance purposes and image recorded for later use. This function is use to protect personal privacy by concealing part of the image from view with a masked area.

By avoiding privacy infringement issues, this function allows users selecting several sensitive areas to blocked undesirable monitoring.

### HLC (Highlight Compensation)

It is ability to reverse bright points in the picture to black. As an effective approach to recognize vehicle's number-plate at night, HLC function can detect any spotlight diffused by object-vehicle and compensate it for obtaining clearer image.



HLC Off



HLC On



Conventional Camera



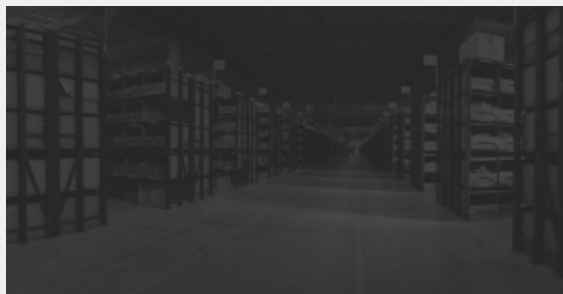
With AWB

### AWB (Automatic White Balance)

Color temperature is directly related to environment and it influences on the color of image. AWB automatically adjusts the white balance in response to varying light conditions to reproduce accurate color without any color-cast caused by different lighting source (ex. Incandescent, fluorescent and quartz light).

### Super Low Light Performance

With advanced ISP technology, Hikvision's cameras provide ultra high sensitivity allowing visibility in very dark conditions.



Conventional Camera



With ISP



Conventional Camera



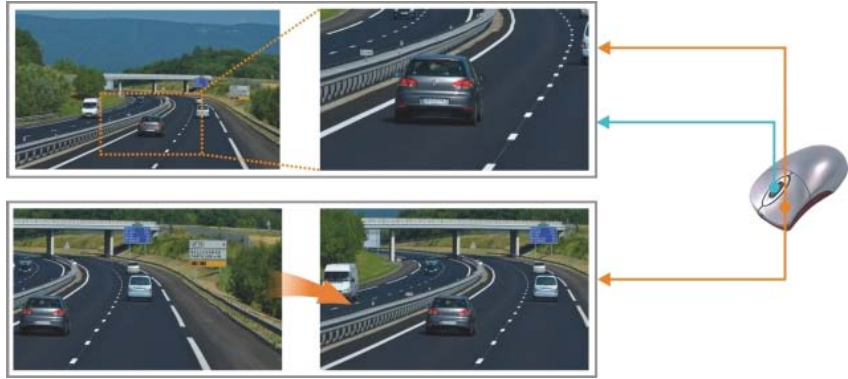
With AGC

### Automatic Gain Control

It's a form of amplification where the camera will automatically boost the image received in much lower light conditions than standard in order to optimize the clarity of image in poor lit scene.

### 3D Intelligent Positioning

A easy-to-use function enabling user to track and zoom out any suspected objects by simply drag-and-click mouse.



Conventional Camera



With 3D DNR

### 3D DNR (Digital Noise Reduction)

Compared to traditional DNR technology, 3D DNR can decrease the noise effect, especially when capturing moving images in low light conditions and delivering more accurate and sharp image quality.

### Smart IR

In some case of misjudging the length of IR range and subjects, IR cameras lead to frequently over-exposed subjects. That's why smart IR is there to solve this type of issue by adjusting automatically IR light and based on subject's distance, resulting in a clear image that is not washed out or too dark.



General IR Camera



Smart IR Camera

### DIS (Digital Image System)

DIS cameras are new series of analog entry-level products developed by Hikvision, with excellent image quality, low powerconsuming and high reliability, the DIS cameras can provide a perfect cost-effective alternative to traditional analog cameras.



Conventional Camera



DIS Camera

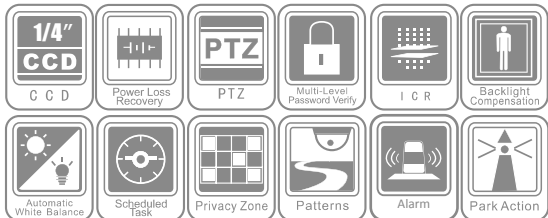
# SPEED DOME



# Speed Dome Selection Chart

	Type	Indoor/ Outdoor	IR	Horizontal Resolution	Lens	Optical Zoom	Digital Zoom	Pan Manual Speed (/s)	Tilt Manual Speed (/s)	IR Distance	Low Light	WDR	3D DNR	EIS	Privacy Mask	Page
DS-2DF1-713-B	Network	Outdoor	√	540 TVL	4.1 - 73.8 mm	18X	12X	0.1°-160°	0.1°-120°	80m		√	√		√	P.28
DS-2DF1-715-B	Network	Outdoor	√	540 TVL	3.5 - 98 mm	28X	12X	0.1°-160°	0.1°-120°	80m		√	√	√	√	P.29
DS-2DF1-71C	Network	Outdoor	√	540 TVL	3.4 - 119 mm	35X	12X	0.1°-160°	0.1°-120°	80m		√	√	√	√	P.30
DS-2DF1-717-B	Network	Outdoor	√	540 TVL	3.4 - 122.4 mm	36X	12X	0.1°-160°	0.1°-120°	80m		√	√	√	√	P.29
DS-2DF1-71D	Network	Outdoor	√	540 TVL	4.7 - 84.6 mm	18X	12X	0.1°-160°	0.1°-120°	80m	√		√		√	P.30
DS-2DF1-714	Network	Outdoor	√	540 TVL	3.84 - 88.4 mm	23X	16X	0.1°-160°	0.1°-120°	80m					√	P.27
DS-2DF1-716	Network	Outdoor	√	540 TVL	3.5 - 105 mm	30X	16X	0.1°-160°	0.1°-120°	80m					√	P.27
DS-2DF1-718	Network	Outdoor	√	540 TVL	3.4 - 122.4 mm	36X	16X	0.1°-160°	0.1°-120°	80m					√	P.27
DS-2DF1-572	Network	Outdoor		1.3 MP	4.7 - 84.6 mm	18X	12X	0.1°-300°	0.1°-240°						√	P.20
DS-2DF1-513-B	Network	Outdoor		540 TVL	4.1 - 73.8 mm	18X	12X	0.1°-300°	0.1°-240°			√	√		√	P.21
DS-2DF1-515-B	Network	Outdoor		540 TVL	3.5 - 98 mm	28X	12X	0.1°-300°	0.1°-240°			√	√	√	√	P.21
DS-2DF1-51C	Network	Outdoor		540 TVL	3.4 - 119 mm	35X	12X	0.1°-300°	0.1°-240°			√	√	√	√	P.22
DS-2DF1-517-B	Network	Outdoor		540 TVL	3.4 - 122.4 mm	36X	12X	0.1°-300°	0.1°-240°			√	√	√	√	P.21
DS-2DF1-51D	Network	Outdoor		540 TVL	4.7 - 84.6 mm	18X	12X	0.1°-300°	0.1°-240°		√		√		√	P.22
DS-2DF1-514	Network	Outdoor		540 TVL	3.84 - 88.4 mm	23X	16X	0.1°-300°	0.1°-240°						√	P.19
DS-2DF1-516	Network	Outdoor		540 TVL	3.5 - 105 mm	30X	16X	0.1°-300°	0.1°-240°						√	P.19
DS-2DF1-518	Network	Outdoor		540 TVL	3.4 - 122.4 mm	36X	16X	0.1°-300°	0.1°-240°						√	P.19
DS-2DF1-401H	Network	Indoor		500 TVL	3.8 - 38 mm	10X	10X	0.1°-300°	0.1°-90°						√	P.18
DS-2AF1-713-B	Analog	Outdoor	√	540 TVL	4.1 - 73.8 mm	18X	12X	0.1°-160°	0.1°-120°	80m		√	√		√	P.24
DS-2AF1-715-B	Analog	Outdoor	√	540 TVL	3.5 - 98 mm	28X	12X	0.1°-160°	0.1°-120°	80m		√	√	√	√	P.25
DS-2AF1-71C	Analog	Outdoor	√	540 TVL	3.4 - 119 mm	35X	12X	0.1°-160°	0.1°-120°	80m		√	√	√	√	P.26
DS-2AF1-717-B	Analog	Outdoor	√	540 TVL	3.4 - 122.4 mm	36X	12X	0.1°-160°	0.1°-120°	80m		√	√	√	√	P.25
DS-2AF1-71D	Analog	Outdoor	√	540 TVL	4.7 - 84.6 mm	18X	12X	0.1°-160°	0.1°-120°	80m	√		√		√	P.26
DS-2AF1-714	Analog	Outdoor	√	540 TVL	3.84 - 88.4 mm	23X	16X	0.1°-160°	0.1°-120°	80m						P.23
DS-2AF1-716	Analog	Outdoor	√	540 TVL	3.5 - 105 mm	30X	16X	0.1°-160°	0.1°-120°	80m						P.23
DS-2AF1-718	Analog	Outdoor	√	540 TVL	3.4 - 122.4 mm	36X	16X	0.1°-160°	0.1°-120°	80m						P.23
DS-2AF1-513-B	Analog	Outdoor		540 TVL	4.1 - 73.8 mm	18X	12X	0.1°-300°	0.1°-240°			√	√		√	P.16
DS-2AF1-515-B	Analog	Outdoor		540 TVL	3.5 - 98 mm	28X	12X	0.1°-300°	0.1°-240°			√	√	√	√	P.16
DS-2AF1-51C	Analog	Outdoor		540 TVL	3.4 - 119 mm	35X	12X	0.1°-300°	0.1°-240°			√	√	√	√	P.17
DS-2AF1-517-B	Analog	Outdoor		540 TVL	3.4 - 122.4 mm	36X	12X	0.1°-300°	0.1°-240°			√	√	√	√	P.16
DS-2AF1-51D	Analog	Outdoor		540 TVL	4.7 - 84.6 mm	18X	12X	0.1°-300°	0.1°-240°		√		√		√	P.17
DS-2AF1-514	Analog	Outdoor		540 TVL	3.84 - 88.4 mm	23X	16X	0.1°-300°	0.1°-240°							P.15
DS-2AF1-516	Analog	Outdoor		540 TVL	3.5 - 105 mm	30X	16X	0.1°-300°	0.1°-240°							P.15
DS-2AF1-518	Analog	Outdoor		540 TVL	3.4 - 122.4 mm	36X	16X	0.1°-300°	0.1°-240°							P.15
DS-2AF1-401X	Analog	Indoor		500 TVL	3.8 - 38 mm	10X	10X	0.1°-300°	0.1°-90°						√	P.14

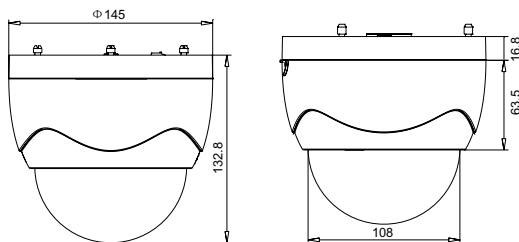
# DS-2AF1-401X Indoor Analog High Speed Dome



## Key features

- 1/4" Sony high performance CCD
- 500 TVL high resolution
- True day / night
- 3D intelligent positioning function
- Powerful PTZ control
- Programmable alarm triggering
- 10x optical zoom

## Dimensions



## Accessories



DS-1671ZJ  
(In-ceiling Mount Bracket)

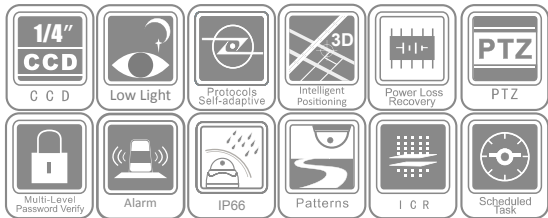


DS-1616ZJ  
(Indoor long-arm wall mount Bracket)

## Specifications

DS-2AF1-401X(Indoor)	
<b>Camera</b>	
Image sensor	1/4" Interline Transfer SONY CCD
Effective pixel	PAL:752(H)×582(V) NTSC:768(H)×494(V)
Horizontal resolution	Color: 500 TVL B/W: 570 TVL
Signal system	PAL / NTSC
Min.illumination	Color: 0.7Lux/F1.8, B/W: 0.02Lux/F1.8
White balance	Auto / Manual / ATW / Indoor / Outdoor
AGC	Auto / manual
S/N ratio	≥ 50dB
BLC	On / off
Shutter time	PAL:1/4-1/10,000s NTSC:1/3-1/10,000s
Day & night	IR cut filter
Digital zoom	10x
Privacy mask	4 privacy masks programmable; a maximum of 4 zones can be masked simultaneously on the same video screen
Focus model	Auto / Semiautomatic / Manual
<b>Lens</b>	
Focal length	3.8 ~ 38mm,10x
Zoom speed	Approx.1.7s (Optical Wide-Tele)
Angle of view	51.2 ~ 5.58° (Wide-Tele)
Min. working distance	10 ~ 1,000mm (Wide-Tele)
Aperture range	F1.8 ~ F2.8
<b>Pan and tilt</b>	
Pan range	360° endless
Pan speed	Pan manual speed: 0.1° ~ 300°/s, Pan preset speed: 400°/s
Tilt range	-2° ~ 90° (auto flip )
Tilt speed	Tilt manual speed: 0.1° ~ 90°/s, Tilt preset speed: 200°/s
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the total recording time not less than 10 min
Power loss recovery	Support
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
PTZ position display	On / off
Freeze frame	Support
Password protection	Support
Zone scanning / display	Scanning within programmed zone, display zone title
Camera title	Programmable title display
Compass	Support, the north can be set
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters
<b>Alarm</b>	
Alarm input	2
Alarm output	1 relay outputs, alarm response actions configurable (additional wires required)
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output
<b>Input / output</b>	
Monitor output	1.0 V [p-p] / 75 Ω, NTSC (or PAL) composite, BNC
<b>General</b>	
Menu language	English, Chinese
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Power supply	12 VDC (24 VAC optional)
Power consumption	12W max.
Working temperature / humidity	-10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less
Mounting	Various mounting modes optional
Dimensions	Φ 145 × 132.8mm (Φ 5.71" × 5.23") (Indoor)
Weight (approx.)	2kg (4.41 lbs)

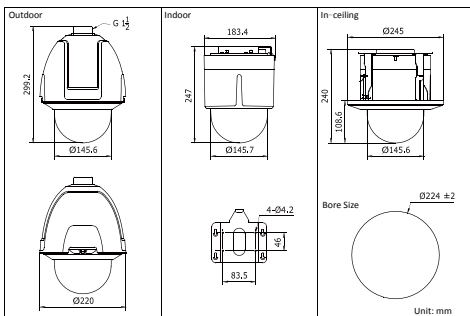
# DS-2AF1-512/514/516/518 Analog High Speed Dome



## Key features

- 1/4" Sony Super HAD CCD
- Low illumination
- True day / night
- 3D intelligent positioning function
- Powerful PTZ control
- Programmable alarm triggering
- IP66 rating

## Dimensions



## Accessories



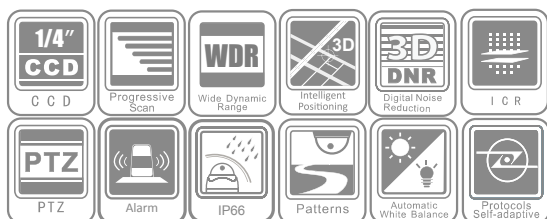
DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2AF1-512 (outdoor) DS-2AF1-502 (indoor) DS-2AF1-532 (in-ceiling)	DS-2AF1-514 (outdoor) DS-2AF1-504 (indoor) DS-2AF1-534 (in-ceiling)	DS-2AF1-516 (outdoor) DS-2AF1-506 (indoor) DS-2AF1-536 (in-ceiling)	DS-2AF1-518 (outdoor) DS-2AF1-508 (indoor) DS-2AF1-538 (in-ceiling)
<b>Camera</b>				
Image sensor	1/4" Sony Super HAD CCD			
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)			
Horizontal resolution	540 TVL	Color: 540 TVL, B/W: 570 TVL		
Signal system	PAL / NTSC			
Min. illumination	0.1Lux/F1.6	Color: 0.2 lux@F1.6 B/W: 0.02 lux@F1.6	Color: 0.2 lux@F1.4 B/W: 0.02 lux@F1.4	Color: 0.2 lux@F1.6 B/W: 0.02 lux@F1.6
White balance	Auto / manual / ATW / indoor / outdoor			
AGC	Auto / manual			
S/N ratio	≥ 50dB			
BLC	On / off			
Shutter time	PAL: 1/50 ~ 1/10,000s NTSC: 1/60 ~ 1/10,000s	PAL: 1/50 ~ 1/10,000s NTSC: 1/60 ~ 1/10,000s	PAL: 1 ~ 1/10,000s NTSC: 1 ~ 1/10,000s	PAL: 1 ~ 1/10,000s NTSC: 1 ~ 1/10,000s
Day & night	Electronic	IR cut filter		
Digital zoom	16x			
Focus model	Auto / semi-automatic / manual			
<b>Lens</b>				
Focal length	3.9 ~ 85.8mm, 22X	3.84 ~ 88.4mm, 23x	3.5 ~ 105mm, 30x	3.4 ~ 122.4mm, 36x
Zoom speed	Approx. 4.3s (Optical Wide-Tele)	Approx. 5.1s (optical Wide-Tele)	Approx. 5.4s (optical Wide-Tele)	Approx. 5.4s (optical Wide-Tele)
Angle of view	58.0 ~ 2.22° (Wide-Tele)	52.2 ~ 2.36° (Wide-Tele)	56.4 ~ 2.0° (Wide-Tele)	57.8 ~ 1.7° (Wide-Tele)
Min. working distance	10 ~ 1,000mm (Wide-Tele)	10 ~ 1,200mm (Wide-Tele)	10 ~ 1,000mm (Wide-Tele)	10 ~ 1,000mm (Wide-Tele)
Aperture range	F1.6 ~ F3.7	F1.6 ~ F4.5	F1.4 ~ F3.7	F1.6 ~ F4.5
<b>Pan and tilt</b>				
Pan range	360° endless			
Pan speed	Pan manual speed: 0.1° ~ 300°/s, pan preset speed: 540°/s			
Tilt range	-5° ~ 90° (auto flip)	-5° ~ 90° (auto flip)	-5° ~ 185° (auto mirror)	-5° ~ 185° (auto mirror)
Tilt speed	Tilt manual speed: 0.1° ~ 240°/s, tilt preset speed: 400°/s			
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples			
Number of preset	256			
Patrol	8 patrols, up to 32 presets per patrol			
Pattern	4 patterns, with the total recording time not less than 10 min			
Power loss recovery	Support			
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan			
PTZ position display	On / off			
Freeze frame	—	—	Support	Support
Password protection	Support			
Zone scanning / display	Scanning within programmed zone, display zone title			
Camera title	Programmable title display			
Compass	Support, the north can be set			
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan			
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text			
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters			
<b>Alarm</b>				
Alarm input	2 (7 alarm inputs optional)			
Alarm output	2 relay outputs, alarm response actions configurable (additional wires required)			
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output			
<b>Input / output</b>				
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC			
<b>Fiber interface (available for fiber dome only)</b>				
Data mode	1-channel analog video and 1-channel reverse RS-485 data			
Physical interface	FC (SC optional)			
Fiber wavelength	TX1310 / RX1550nm			
Fiber type	Single fiber / single mode			
Transmission distance	20km, 40km / 60km / 80km optional			
<b>General</b>				
Menu language	English, Chinese			
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Power supply	24 VAC (12 VDC optional)			
Power consumption	15W max (45W max with heater, outdoor dome)			
Working temperature / humidity	-30°C ~ 65°C (-22°F ~ 149°F) (outdoor) / -10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less			
Protection level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection			
Mounting	Various mounting modes optional			
Dimensions	Φ 220 × 299.2mm (Φ 8.66" × 11.78") (outdoor), Φ 183.4 × 247mm (Φ 7.22" × 9.72") (indoor) Φ 245 × 240mm (Φ 9.65" × 9.45") (in-ceiling)			
Weight (approx.)	5kg (11.02lbs)			



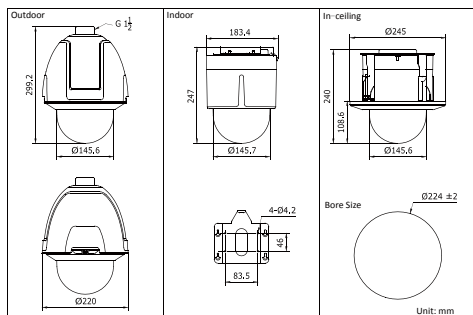
# DS-2AF1-513/515/517-B WDR Analog High Speed Dome



## Key features

- 1/4" Sony EXVIEW HAD progressive scan CCD
- 128x wide dynamic range
- 540 TVL high resolution
- True day / night
- 3D intelligent positioning function
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Accessories



DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2AF1-513-B (outdoor) DS-2AF1-503-B (indoor) DS-2AF1-533-B (in-ceiling)	DS-2AF1-515-B (outdoor) DS-2AF1-505-B (indoor) DS-2AF1-535-B (in-ceiling)	DS-2AF1-517-B (outdoor) DS-2AF1-507-B (indoor) DS-2AF1-537-B (in-ceiling)
<b>Camera</b>			
Image sensor	1/4" SONY EXVIEW HAD progressive scan CCD		
Effective pixel	PAL:752(H)×582(V), NTSC:768(H)×494(V)		
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL		
Signal system	PAL / NTSC		
Min.illumination	Color: 0.7Lux/F1.4 B/W: 0.01Lux/F1.4	Color: 0.65 lux@F1.35 B/W: 0.005 lux@F1.35	Color: 1.4 lux@F1.6 B/W: 0.01 lux@F1.6
White balance	Auto / Manual / ATW / Indoor / Outdoor / Outdoor Auto /sodium lamp		
AGC	Auto / manual		
S/N ratio	≥ 50dB		
BLC	On / off		
WDR	128x (on / off / auto)		
Anti-shake	--	On / off	
Shutter time	PAL: 1/3 ~ 1/10,000s, NTSC: 1/4 ~ 1/10,000s		
Day & night	IR cut filter		
Digital zoom	12x		
Privacy mask	24 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen		
Focus model	Auto / semi-automatic / manual		
<b>Lens</b>			
Focal length	4.1-73.8mm, 18X	3.5-98mm,28X	3.4-122.4mm,36X
Zoom speed	Approx.2.0s(Optical Wide-Tele)	Approx.1.7s(Optical Wide-Tele)	Approx.2.7s(Optical Wide-Tele)
Angle of view	48-2.8° (Wide-Tele)	55.8-2.1° (Wide-Tele)	57.8-1.7° (Wide-Tele)
Min. working distance	290-800mm (Wide-Tele)	10-1,500mm(Wide-Tele)	320-1,500mm(Wide-Tele)
Aperture range	F1.4 - F3.0	F1.35 - F3.7	F1.6 - F4.5
<b>Pan and tilt</b>			
Pan Range	360°endless		
Pan Speed	Pan Manual Speed: 0.1° -300°/s, Pan Preset Speed: 540°/s		
Tilt Range	-5°-185°(Auto Mirror)		
Tilt Speed	Tilt Manual Speed: 0.1°-240°/s, Tilt Preset Speed: 400°/s		
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples		
Number of Preset	256		
Patrol	8 patrols, up to 32 presets per patrol		
Pattern	4 patterns, with the total recording time not less than 10 min		
Power-off Memory	Support		
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan		
PTZ Position Display	On / Off		
Freeze Frame	Support		
Password Protection	Support		
Zone Scanning/Display	Scanning within programmed zone, display zone title		
Camera Title	Programmable title display		
Compass	Support , the north can be set		
Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan		
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text		
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters		
<b>Alarm</b>			
Alarm input	2 (7 alarm inputs optional)		
Alarm output	2 relay outputs, alarm response actions configurable		
Alarm action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan / Relay output		
<b>Input / output</b>			
Monitor output	1.0V(p-p) / 75Ω, NTSC (or PAL) composite, BNC		
<b>Fiber interface (available for fiber dome only)</b>			
Data mode	1-channel analog video and 1-channel reverse RS-485 data		
Physical interface	FC(SC optional)		
Fiber wavelength	TX1310/RX1550nm		
Fiber type	Single Fiber/Singlemode		
Transmission distance	20Km, 40Km / 60Km/ 80Km optional		
<b>General</b>			
Menu language	English, Chinese		
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Power supply	24 VAC (12 VDC optional)		
Power consumption	15W max(45W max with heater, outdoor dome)		
Working temperature / humidity	-30°C ~ 65°C (-22°F ~ 149°F) (outdoor) / -10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less		
Protection level	IP66 standard (outdoor dome), TVS 3,000V lightning protection, surge protection and voltage transient protection		
Mounting	Various mounting modes optional		
Dimensions	Φ 220 × 299.2mm (Φ 8.66" × 11.78") (outdoor) Φ 183.4 × 247mm (Φ 7.22" × 9.72") (indoor) Φ 245 × 240mm (Φ 9.65" × 9.45") (in-ceiling)		
Weight (approx.)	5kg (11.02lbs)		

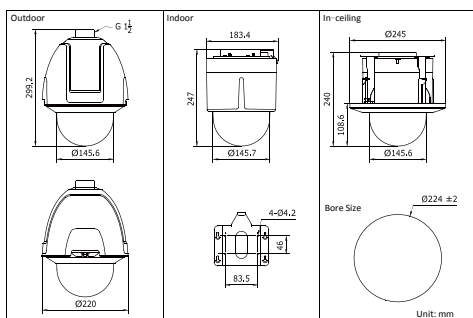
# DS-2AF1-51C/51D Analog High Speed Dome



## Key features

- Super low Illumination
- 540 TVL high resolution
- True day / night
- 3D intelligent positioning function
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Accessories

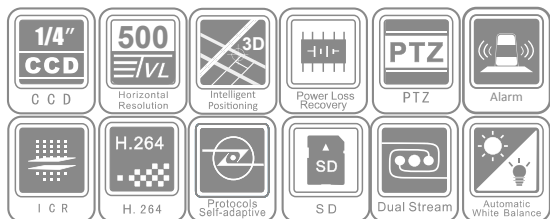


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2AF1-51C(Outdoor) DS-2AF1-50C(Indoor) DS-2AF1-53C(In-ceiling)	DS-2AF1-51D(Outdoor) DS-2AF1-50D(Indoor) DS-2AF1-53D(In-ceiling)
<b>Camera</b>		
Image sensor	1/4 inch solid state progressive scan CCD	1/3 inch solid state sony CCD
Effective pixel	PAL:752(H)×582(V); NTSC:768(H)×494(V)	
Horizontal resolution	Color: 540 TVL; B/W: 570 TVL	
Signal system	PAL / NTSC	
Min.illumination	Color: 0.1Lux/F1.4; B/W: 0.01Lux/F1.4	Color: 0.025Lux/F1.6; B/W: 0.0025Lux/F1.6
White balance	Auto / Manual	
AGC	Auto / Manual	
S/N ratio	≥ 50dB	
NR	High / Medium / Low / off	
BLC	On / Off	
WDR	128x( On / Off/Auto)	--
Anti-shake	On / Off	--
Shutter time	PAL: 1/3-1/10,000s, NTSC: 1/4-1/10,000s	
Day & night	IR Cut Filter	
Digital zoom	12x	
Privacy mask	4 privacy masks programmable; a maximum of 4 zones can be masked simultaneously on the same video screen	
Focus model	Auto / Semiautomatic / Manual	
<b>Lens</b>		
Focal length	3.4 - 119mm, 35X	4.7 - 84.6mm,18X
Zoom speed	Approx.4.6s (Optical Wide-Tele)	Approx.3.5s (Optical Wide-Tele)
Angle of view	55.8 - 1.7°(Wide-Tele)	54.7 - 3.1°(Wide-Tele)
Min. working distance	10 - 1000mm (Wide-Tele)	10 - 1,500mm(Wide-Tele)
Aperture range	F1.4 - F4.2	F1.6 - F2.8
<b>Pan and tilt</b>		
Pan range	360° endless	
Pan speed	Pan manual speed: 0.1° ~ 300°/s, pan preset speed: 540°/s	
Tilt range	-5° ~ 185° (auto mirror)	
Tilt speed	Tilt manual speed: 0.1° ~ 240°/s, tilt preset speed: 400°/s	
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
Number of preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the total recording time not less than 10 min	
Power loss recovery	Support	
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
PTZ position display	On / off	
Freeze frame	Support	
Password protection	Support	
Zone scanning / display	Scanning within programmed zone, display zone title	
Camera title	Programmable title display	
Compass	Support , the north can be set	
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text	
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters	
<b>Alarm</b>		
Alarm input	2 (7 alarm inputs optional)	
Alarm output	2 relay outputs, alarm response actions configurable	
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output	
<b>Input / output</b>		
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
<b>Fiber interface (available for fiber dome only)</b>		
Data mode	1-channel analog video and 1-channel reverse RS-485 data	
Physical interface	FC (SC optional)	
Fiber wavelength	TX1310 / RX1550nm	
Fiber type	Single fiber / single mode	
Transmission distance	20km, 40km / 60km / 80km optional	
<b>General</b>		
Menu language	English, Chinese	
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
Power supply	24 VAC (12 VDC optional)	
Power consumption	15W max(45W max with heater, outdoor dome)	
Working temperature/humidity	-30°C ~ 65°C (-22°F ~ 149°F) (outdoor) / -10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less	
Protection level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection	
Mounting	Various mounting modes optional	
Dimensions	Φ 220 × 299.2mm (Φ 8.66" × 11.78") (outdoor) Φ 183.4 × 247mm (Φ 7.22" × 9.72") (indoor) Φ 245 × 240mm (Φ 9.65" × 9.45") (in-ceiling)	
Weight (approx.)	5kg (11.02lbs)	

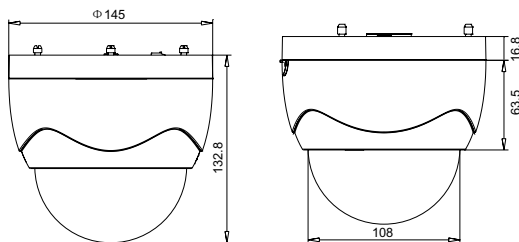
# DS-2DF1-401H Indoor Network High Speed Dome



## Key features

- 1/4" Interline Transfer Sony CCD
- 500 TVL resolution
- True day / night
- 3D intelligent positioning function
- Powerful PTZ control
- Programmable alarm triggering
- 10x optical zoom

## Dimensions



## Accessories



DS-1671ZJ  
(In-ceiling Mount Bracket)

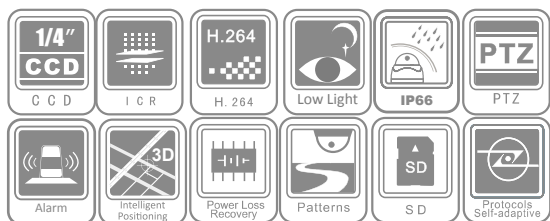


DS-1616ZJ  
(Indoor long-arm wall mount Bracket)

## Specifications

DS-2DF1-401H	
<b>Camera</b>	
Image sensor	1/4" Interline Transfer SONY CCD
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)
Horizontal resolution	Color: 500 TVL, B/W: 570 TVL
Signal system	PAL / NTSC
Min.illumination	Color: 0.7 lux@F1.8, B/W: 0.02 lux@F1.8
White balance	Auto / manual / ATW / indoor / outdoor
AGC	Auto / manual
S/N ratio	≥ 50dB
BLC	On / Off
Shutter time	PAL: 1/4 - 1/10,000s, NTSC: 1/3 - 1/10,000s
Day & night	IR cut filter
Digital zoom	10x
Privacy mask	24 privacy masks programmable
Focus model	Auto / semi-automatic / manual
<b>Lens</b>	
Focal length	3.8 - 38mm, 10x
Zoom speed	Approx.1.7s (optical Wide-Tele)
Angle of view	51.2 - 5.58° (Wide-Tele)
Min. working distance	10 - 1,000mm (Wide-Tele)
Aperture range	F1.8 - F2.8
<b>Pan and tilt</b>	
Pan range	360° endless
Pan speed	Pan manual speed: 0.1° ~ 300°/s, Pan preset speed: 400°/s
Tilt range	-2° ~ 90° (auto flip )
Tilt speed	Tilt manual speed: 0.1° ~ 90°/s, Tilt preset speed: 200°/s
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the total recording time not less than 10 min
Power loss recovery	Support
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
PTZ position display	On / off
Freeze frame	Support
<b>Alarm</b>	
Alarm input	1
Alarm output	1 relay outputs, alarm response actions configurable
Alarm action	Preset, patrol, pattern, SD card recording, relay output, notification on client
<b>Input / output</b>	
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%
Audio output	Line level, impedance: 600Ω
<b>Network</b>	
Ethernet	10 base-T / 100 base-TX, RJ45 connector
Max.image resolution	PAL: 704 × 576, NTSC: 704 × 480
Frame rate	PAL: 25 fps (704 × 576), NTSC: 30 fps (704 × 480)
Image compression	H.264 / MJPEG
Audio compression	G.711 / 16kbps
Audio mode	Off / audio input / audio output
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)
No. of simultaneous users	Up to 6 users
Dual streams	Support
Mini SD memory card	Manual REC / alarm REC. Built-in SD/SDHC slot, up to 32GB
User / host Level	3 levels: administrator, camera control, live view only
Security measures	User authentication (ID and PW), host authentication (MAC address)
<b>Client GUI</b>	
Camera control	Pan / tilt, zoom, focus, click centering, drag zoom, iris, preset position call and program, auto mode.
Camera name	Up to 18 characters
Date & time display	Time: week: date, 6 formats on the client
Reading patrol message	Display and reading of preset message contained in each patrol via client software
<b>General</b>	
Menu language	English, Chinese
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Power supply	12 VDC / PoE
Power consumption	12W max.
Working temperature / humidity	-10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less
Mounting	Various mounting modes optional
Dimensions	Φ 145 × 132.8mm (Φ 5.71" × 5.23") (indoor)
Weight (approx.)	2kg (4.41lbs)

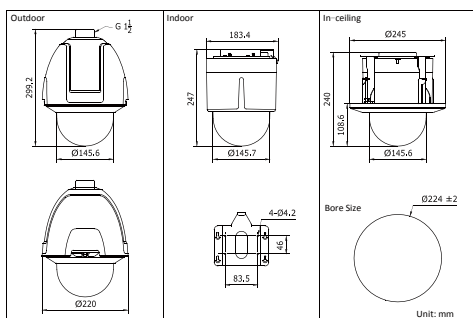
# DS-2DF1-512/514/516/518 Network High Speed Dome



## Key features

- 1/4" Sony Super HAD CCD
- True day / night
- H.264 video compression
- 3D intelligent positioning function
- Powerful PTZ control
- Programmable alarm triggering
- IP66 rating
- Up to 36x optical zoom

## Dimensions



## Accessories



DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2DF1-512 (outdoor) DS-2DF1-502 (indoor) DS-2DF1-532 (in-ceiling)	DS-2DF1-514 (outdoor) DS-2DF1-504 (indoor) DS-2DF1-534 (in-ceiling)	DS-2DF1-516 (outdoor) DS-2DF1-506 (indoor) DS-2DF1-536 (in-ceiling)	DS-2DF1-518 (outdoor) DS-2DF1-508 (indoor) DS-2DF1-538 (in-ceiling)
<b>Camera</b>				
Image sensor	1/4" Sony Super HAD CCD			
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)			
Horizontal resolution	540 TVL Color: 540 TVL, B/W: 570 TVL			
Signal system	PAL / NTSC			
Min. illumination	0.1Lux/F1.6	Color: 0.2 lux@F1.6, B/W: 0.02 lux@F1.6	Color: 0.2 lux@F1.4, B/W: 0.02 lux@F1.4	Color: 0.2 lux@F1.6, B/W: 0.02 lux@F1.6
White balance	Auto / manual / ATW / indoor / outdoor			
AGC	Auto / manual			
S/N ratio	≥ 50dB			
BLC	On / off			
Shutter time	PAL:1/50 ~ 1/10,000s, NTSC:1/60 ~ 1/10,000s	PAL:1/50 ~ 1/10,000s, NTSC:1/60 ~ 1/10,000s	PAL:1 ~ 1/10,000s, NTSC:1 ~ 1/10,000s	PAL:1 ~ 1/10,000s, NTSC:1 ~ 1/10,000s
Day & night	Electronic	IR cut filter		
Digital zoom	16x			
Privacy Mask	24 privacy masks programmable			
Focus model	Auto / semi-automatic / manual			
<b>Lens</b>				
Focal length	3.9 ~ 85.8mm, 22X	3.84 ~ 88.4 mm, 23x	3.5 ~ 105mm, 30x	3.4 ~ 122.4mm, 36x
Zoom speed	Approx.4.3s (Optical Wide-Tele)	Approx.5.1s (optical Wide-Tele)	Approx.5.4s (optical Wide-Tele)	Approx.5.4s (optical Wide-Tele)
Angle of view	58.0 ~ 2.22° (Wide-Tele)	52.2 ~ 2.36° (Wide-Tele)	56.4 ~ 2.0° (Wide-Tele)	57.8 ~ 1.7° (Wide-Tele)
Min. working distance	10 ~ 1,000mm (Wide-Tele)	10 ~ 1,200mm (Wide-Tele)	10 ~ 1,000mm (Wide-Tele)	10 ~ 1,000mm (Wide-Tele)
Aperture range	F1.6 ~ F3.7	F1.6 ~ F4.5	F1.4 ~ F3.7	F1.6 ~ F4.5
<b>Pan and tilt</b>				
Pan range	360° endless			
Pan speed	Pan manual speed: 0.1° ~ 300°/s, pan preset speed: 540°/s			
Tilt range	-5° ~ 90° (auto flip)	-5° ~ 90° (auto flip)	-5° ~ 185° (Auto Mirror)	-5° ~ 185° (Auto Mirror)
Tilt speed	Tilt manual speed: 0.1° ~ 240°/s, tilt preset speed: 400°/s			
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples			
Number of preset	256			
Patrol	8 patrols, up to 32 presets per patrol			
Pattern	4 patterns, with the total recording time not less than 10 min			
Power loss recovery	Support			
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan			
PTZ position display	On / off			
Freeze frame	—	—	Support	Support
<b>Alarm</b>				
Alarm input	2 (7 alarm inputs optional)			
Alarm output	2 relay outputs, alarm response actions configurable			
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output			
<b>Input / output</b>				
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC			
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%			
Audio output	Line level, impedance: 600Ω			
<b>Network</b>				
Ethernet	10 base-T / 100 base-TX, RJ45 connector			
Max. image resolution	PAL: 704 × 576, NTSC: 704 × 480			
Frame rate	PAL: 25 fps (704 × 576), NTSC: 30 fps (704 × 480)			
Image compression	H.264 / MJPEG			
Audio compression	G.711 / 16kbps			
Audio mode	Off / audio input / audio output			
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)			
No. of simultaneous users	Up to 6 users			
Dual streams	Support			
Mini SD memory card	Manual REC / alarm REC. Built-in SD/SDHC slot, up to 32GB			
User / host level	3 levels: administrator, camera control, live view only			
Security measures	User authentication (ID and PW), host authentication (MAC address)			
<b>Client GUI</b>				
Camera control	Pan / tilt, zoom, focus, click centering, drag zoom, iris, preset position call and program, auto mode.			
Camera name	Up to 18 characters			
Date & time display	Time: week: date, 6 formats on the client			
Reading patrol message	Display and reading of preset message contained in each patrol via client software			
<b>Fiber interface (available for fiber dome only)</b>				
Data mode	10 base-T / 100 base-TX			
Physical interface	FC (SC optional)			
Fiber wavelength	TX1310 / RX1550nm			
Fiber type	Single fiber / single mode			
Transmission distance	20km, with 40km, 60km and 80km optional			
<b>General</b>				
Menu language	English, Chinese			
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Power supply	24 VAC (12 VDC optional)			
Power consumption	15W max (45W max with heater, outdoor dome)			
Working temperature / humidity	-30°C ~ 65°C (-22°F ~ 149°F) (outdoor) / -10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less			
Protection level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection			
Mounting	Various mounting modes optional			
Dimensions	Φ 220×299.2mm (Φ 8.66"×11.78") (outdoor), Φ 183.4×247mm (Φ 7.22"×9.72") (indoor), Φ 245×240mm (Φ 9.65"×9.45") (in-ceiling)			
Weight (approx.)	5kg (11.02lbs)			

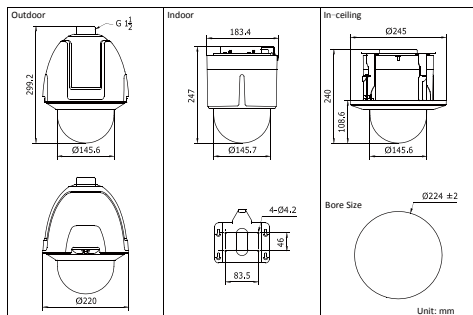
# DS-2DF1-572 1.3 MP Network High Speed Dome



## Key features

- 1/3" Sony progressive scan CCD
- True day / night
- Up to 1.3 megapixel resolution
- 3D intelligent positioning function
- Powerful PTZ control
- Programmable alarm triggering
- IP66 rating
- 18x optical zoom

## Dimensions



## Accessories



DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

DS-2DF1-572 (outdoor) / DS-2DF1-5702 (indoor) / DS-2DF1-5732 (in-ceiling)	
<b>Camera</b>	
Image sensor	1/3" Sony progressive scan CCD
Effective pixel	1280 (H) × 960 (V)
Min. illumination	Color: 0.5 lux@F1.6, B/W: 0.02 lux@F1.6
White balance	Auto / manual / one touch WB / ATW
AGC	Auto / manual
S/N ratio	≥ 50dB
BLC	On / Off
Shutter time	1/25 ~ 1/100,000s
Day & night	IR cut filter
Digital zoom	12x
Privacy Mask	24 privacy masks programmable
Focus model	Auto / semi-automatic / manual
<b>Lens</b>	
Focal length	4.7 ~ 84.6mm, 18x
Zoom speed	Approx.2s (optical Wide-Tele)
Angle of view	55.2 ~ 3.2° (Wide-Tele)
Min. working distance	10 ~ 1,500mm (Wide-Tele)
Aperture range	F1.6 ~ F2.8
<b>Pan and tilt</b>	
Pan range	360° endless
Pan speed	Pan manual speed: 0.1° ~ 300°/s, pan preset speed: 540°/s
Tilt range	-5° ~ 90° (auto flip)
Tilt speed	Tilt manual speed: 0.1° ~ 240°/s, tilt preset speed: 400°/s
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the recording time not less than 10 min per pattern
Power-off memory	Support
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
PTZ position display	On / off
Freeze frame	Support
<b>Alarm</b>	
Alarm input	2 (7 alarm input optional)
Alarm output	2 relay outputs, alarm response actions configurable
Alarm actions	Preset, patrol, pattern, SD/SDHC card recording, relay output, notification on client
<b>Input / output</b>	
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%
Audio output	Line level, impedance: 600Ω
<b>Network</b>	
Ethernet	10 base-T / 100 base-TX, RJ45 connector
Max. image resolution	1280 × 720
Frame rate	50Hz: 25 fps (1280 × 720)
Image compression	H.264 / MJPEG
Audio compression	G.711 / 16kbps
Audio mode	Off / audio input / audio output
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)
No. of simultaneous users	Up to 6 users
Dual streams	Support
Mini SD memory card	Manual REC / alarm REC. Built-in SD/SDHC slot, up to 32GB
User / host level	3 levels: administrator, camera control, live view only
Security measures	User authentication (ID and PW), host authentication (MAC address)
<b>Client GUI</b>	
Camera control	Pan / tilt, zoom, focus, click centering, drag zoom, iris, preset position call and program, auto mode.
Camera name	Up to 18 characters
Date & time display	Time: week; date, 6 formats on the client
Reading patrol message	Display and reading of preset message contained in each patrol via client software
<b>Fiber interface (available for fiber dome only)</b>	
Data mode	10 base-T / 100 base-TX
Physical interface	FC / SC optional
Fiber wavelength	TX1310 / RX1550nm
Fiber type	Single fiber / single mode
Transmission distance	20km, 40km / 60km / 80km optional
<b>General</b>	
Menu language	English, Chinese
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Power supply	24 VAC (12 VDC optional)
Power consumption	15W max. (45W max. with heater, outdoor dome)
Working temperature / humidity	-30 °C ~ 65 °C (-22 °F ~ 149 °F) (outdoor) / -10 °C ~ 50 °C (14 °F ~ 122 °F) (indoor), 90% or less
Protection level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection
Mounting	Various mounting modes optional
Dimensions	Φ 220 × 299.2mm (Φ 8.66"×11.78") (outdoor), Φ 183.4 × 247mm (Φ 7.22"×9.72") (indoor), Φ 245 × 240mm (Φ 9.65"×9.45") (in-ceiling)
Weight (approx.)	5kg (11.02lbs)

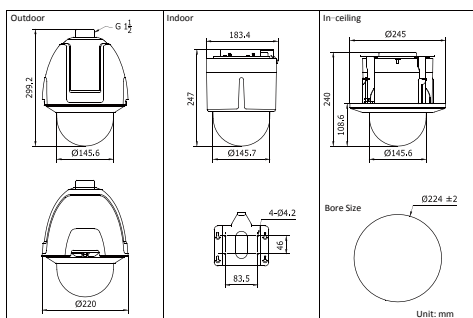
# DS-2DF1-513/515/517-B WDR Network High Speed Dome



## Key features

- 1/4" SONY EXVIEW HAD progressive scan CCD
- True day / night
- 128x wide dynamic range
- 3D intelligent positioning function
- 3D digital noise reduction
- Programmable alarm triggering
- IP66 rating

## Dimensions



## Accessories



DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2DF1-513-B (Outdoor) DS-2DF1-503-B (Indoor) DS-2DF1-533-B (In-ceiling)	DS-2DF1-515-B (Outdoor) DS-2DF1-505-B (Indoor) DS-2DF1-535-B (In-ceiling)	DS-2DF1-517-B (Outdoor) DS-2DF1-507-B (Indoor) DS-2DF1-537-B (In-ceiling)
<b>Camera</b>			
Image sensor	1/4" SONY EXVIEW HAD progressive scan CCD		
Effective pixel	PAL:752(H)×582(V), NTSC:768(H)×494(V)		
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL		
Signal system	PAL / NTSC		
Min. illumination	Color: 0.7Lux/F1.4, B/W: 0.01Lux/F1.4	Color: 0.65 lux@F1.35, B/W: 0.005 lux@F1.35	Color: 1.4 lux@F1.6, B/W: 0.01 lux@F1.6
White balance	Auto / Manual / ATW / Indoor / Outdoor / Outdoor Auto /sodium lamp		
AGC	Auto / manual		
S/N ratio	≥ 50dB		
BLC	On / off		
WDR	128x (on / off / auto)		
Anti-shake	--	On / off	
Shutter time	PAL: 1/3 - 1/10,000s, NTSC: 1/4 - 1/10,000s		
Day & night	IR cut filter		
Digital zoom	12x		
Privacy mask	24 privacy masks programmable		
Focus model	Auto / semi-automatic / manual		
<b>Lens</b>			
Focal length	4.1-73.8mm, 18X	3.5-98mm, 28X	3.4-122.4mm, 36X
Zoom speed	Approx.2.0s(Optical Wide-Tele)	Approx.1.7s(Optical Wide-Tele)	Approx.2.7s(Optical Wide-Tele)
Angle of view	48-2.8° (Wide-Tele)	55.8-2.1° (Wide-Tele)	57.8-1.7° (Wide-Tele)
Min. working distance	290-800mm (Wide-Tele)	10-1,500mm (Wide-Tele)	320-1,500mm (Wide-Tele)
Aperture range	F1.4 - F3.0	F1.35 - F3.7	F1.6 - F4.5
<b>Pan and tilt</b>			
Pan Range	360°endless		
Pan Speed	Pan Manual Speed: 0.1° -300°/s, Pan Preset Speed: 540°/s		
Tilt Range	-5°-185°(Auto Mirror)		
Tilt Speed	Tilt Manual Speed: 0.1°-240°/s, Tilt Preset Speed: 400°/s		
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples		
Number of Preset	256		
Patrol	8 patrols, up to 32 presets per patrol		
Pattern	4 patterns, with the total recording time not less than 10 min		
Power-off Memory	Support		
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan		
PTZ Position Display	On / Off		
Freeze Frame	Support		
<b>Alarm</b>			
Alarm input	2 (7 alarm inputs optional)		
Alarm output	2 relay outputs, alarm response actions configurable		
Alarm action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan / Relay output		
<b>Input / output</b>			
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC		
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%		
Audio output	Line level, impedance: 600Ω		
<b>Network</b>			
Ethernet	10Base-T / 100Base-TX, RJ45 connector		
Max. image resolution	PAL:704×576, NTSC:704×480		
Frame rate	PAL :25 fps (704×576), NTSC: 30 fps (704×480)		
Image compression	H.264/MJPEG		
Audio compression	G.711 / 16kbps		
Audio mode	Off / Audio input / Audio output		
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)		
No. of simultaneous users	Up to 6 users		
Dual streams	Support		
Mini SD memory card	Manual REC / Alarm REC., Built-in SD/SDHC Slot, up to 32GB		
User/Host level	3 Levels: Administrator, Camera control, Live view only		
Security measures	User authentication (ID and PW), Host authentication (MAC address)		
<b>Client GUI</b>			
Camera control	Pan / Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.		
Camera name	Up to 18 characters		
Date & time display	Time: Week: Date, 6 formats on the Client		
Reading patrol message	Display and reading of preset message contained in each patrol via client software		
<b>Fiber interface (available for fiber dome only)</b>			
Data mode	10 Base-T / 100 Base-TX		
Physical interface	FC(SC optional)		
Fiber wavelength	TX1310/RX1550nm		
Fiber type	Single Fiber/Singlemode		
Transmission distance	20Km, 40Km / 60Km/ 80Km optional		
<b>General</b>			
Menu Language	English, Chinese		
RS-485 Protocols(optional)	HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Power Supply	24VAC (12V DC optional)		
Power Consumption	15W max(45W max with heater, outdoor dome)		
Working Temperature / Humidity	-30°C-65°C(-22°F-149°F)(outdoor dome) / -10°C-50°C(14°F-122°F)(indoor dome), 90% or less		
Protection Level	IP66 standard (outdoor dome), TVS 3,000V lightning protection, surge protection and voltage transient protection		
Mounting	Various mounting modes optional		
Dimension	Φ 220 × 299.2mm (Φ 8.66" × 11.78") (outdoor), Φ 183.4 × 247mm(Φ 7.22" × 9.72") (indoor) Φ 245 × 240mm (Φ 9.65" × 9.45") (in-ceiling)		
Weight (approx.)	5kg (11.02lbs)		

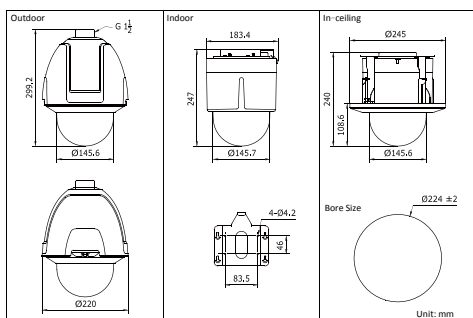
# DS-2DF1-51C/51D Network High Speed Dome



## Key features

- Super low Illumination
- H.264 video compression
- 540 TVL high resolution
- True day / night
- 3D intelligent positioning function
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Accessories

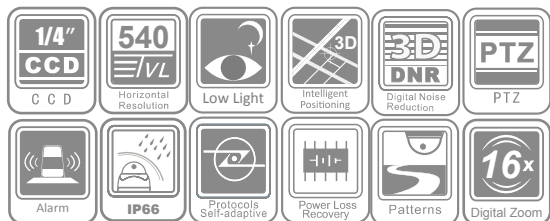


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2DF1-51C(Outdoor) DS-2DF1-50C(Indoor) DS-2DF1-53C(In-ceiling)	DS-2DF1-51D(Outdoor) DS-2DF1-50D(Indoor) DS-2DF1-53D(In-ceiling)
<b>Camera</b>		
Image sensor	1/4" solid state progressive scan CCD	1/3" solid state sony CCD
Effective pixel	PAL:752(H)×582(V), NTSC:768(H)×494(V)	
Horizontal resolution	Color: 540 TVL , B/W: 570 TVL	
Signal system	PAL / NTSC	
Min.illumination	Color: 0.1Lux/F1.4, B/W:0.01Lux/F1.4	Color: 0.025Lux/F1.6, B/W: 0.0025Lux/F1.6
White balance	Auto / Manual	
AGC	Auto / Manual	
S/N ratio	≥ 50dB	
BLC	On / Off	
WDR	128x( On / Off/Auto)	--
Shutter time	PAL:1/3-1/10,000s , NTSC:1/4-1/10,000s	
Day & night	IR Cut Filter	
Digital zoom	12x	
Privacy mask	24 privacy masks programmable	
Focus model	Auto / Semiautomatic / Manual	
<b>Lens</b>		
Focal length	3.4 - 119mm, 35X	4.7 - 84.6mm,18X
Zoom speed	Approx.4.6s (Optical Wide-Tele)	Approx.3.5s (Optical Wide-Tele)
Angle of view	55.8 - 1.7°(Wide-Tele)	54.7 - 3.1°(Wide-Tele)
Min. working distance	10 - 1000mm (Wide-Tele)	10 - 1,500mm(Wide-Tele)
Aperture range	F1.4 - F4.2	F1.6 - F2.8
<b>Pan and tilt</b>		
Pan range	360° endless	
Pan speed	Pan manual speed: 0.1° - 300°/s, pan preset speed: 540°/s	
Tilt range	-5° - 185° (auto mirror)	
Tilt speed	Tilt manual speed: 0.1° - 240°/s, tilt preset speed: 400°/s	
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
Number of preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the total recording time not less than 10 min	
Power loss recovery	Support	
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
PTZ position display	On / off	
Freeze frame	Support	
<b>Alarm</b>		
Alarm input	2 (7 alarm inputs optional)	
Alarm output	2 relay outputs, alarm response actions configurable	
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output	
<b>Input / output</b>		
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%	
Audio output	Line level, impedance: 600Ω	
<b>Network</b>		
Ethernet	10Base-T / 100Base-TX, RJ45 connector	
Max. Image Resolution	PAL:704×576, NTSC:704×480	
Frame Rate	PAL: 25 fps (704×576), NTSC: 30 fps (704×480)	
Image Compression	H.264	
Audio Compression	G.711 / 16kbps	
Audio Mode	Off / Audio input / Audio output	
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional )	
No. of Simultaneous Users	Up to 6 users	
Dual Streams	Support	
Mini SD Memory Card	Manual REC / Alarm REC, Built-in SD/SDHC Slot, up to 32GB	
User/Host Level	3 Levels: Administrator, Camera control, Live view only	
Security Measures	User authentication (ID and PW), Host authentication (MAC address)	
<b>Client GUI</b>		
Camera Control	Pan / Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.	
OSD	Up to 18 characters	
Date & Time Display	Time: Week: Date, 6 formats on the Client	
Reading Patrol Message	Display and reading of preset message contained in each patrol via client software	
<b>Fiber interface (available for fiber dome only)</b>		
Data mode	10 Base-T / 100Base-TX	
Physical interface	FC(SC optional)	
Fiber wavelength	1310/1550nm	
Fiber type	Single Fiber/Singlemode	
Transmission distance	20Km, 40Km / 60Km/ 80Km optional	
<b>General</b>		
Menu Language	English, Chinese	
RS-485 Protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
Power Supply	24 VAC (12 VDC optional)	
Power Consumption	15W max. (45W max. with heater, outdoor dome)	
Working Temperature / Humidity	-30°C - 65°C (-22°F - 149°F) (outdoor) / -10°C - 50°C (14°F - 122°F) (indoor), 90% or less	
Protection Level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection	
Mounting	Various mounting modes optional	
Dimension	Φ220×299.2mm(Φ8.66"×11.78") (outdoor), Φ183.4×247mm(Φ7.22"×9.72") (indoor), Φ245×240mm(Φ9.65"×9.45") (in-ceiling)	
Weight (approx.)	5kg (11.02lbs)	

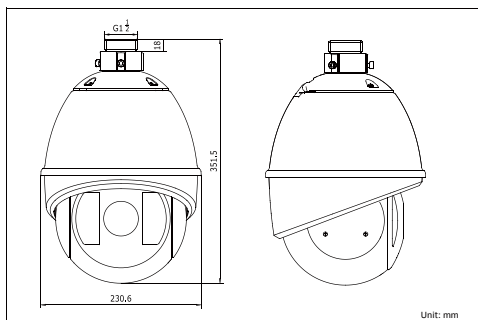
# DS-2AF1-714/716/718 IR Analog High Speed Dome



## Key features

- 1/4" Sony Super HAD CCD
- Low illumination
- True day / night
- 80m IR range
- 3D digital noise reduction
- IP66 rating
- Up to 36x optical zoom

## Dimensions



## Accessories



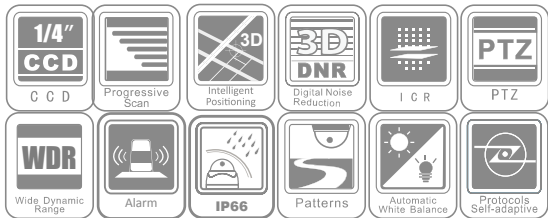
DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2AF1-714	DS-2AF1-716	DS-2AF1-718
<b>Camera</b>			
Image sensor	1/4" Sony Super HAD CCD		
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)		
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL		
Signal system	PAL / NTSC		
Min.illumination	Color: 0.2 lux@F1.6, B/W: 0.02 lux@F1.6 , 0 lux with IR	Color: 0.2Lux/F1.4, B/W: 0.02Lux/F1.4, 0 Lux with IR	Color: 0.2Lux/F1.6, B/W: 0.02Lux/F1.6, 0 Lux with IR
White balance	Auto / manual / ATW / indoor / outdoor		
AGC	Auto / manual		
S/N ratio	≥ 50dB		
BLC	On / off		
Shutter time	PAL: 1/50 ~ 1/10,000s NTSC: 1/60 ~ 1/10,000s	PAL:1-1/10,000s NTSC:1-1/10,000s	PAL:1-1/10,000s NTSC:1-1/10,000s
Day & night	IR cut filter		
Digital zoom	16x		
Focus model	Auto / semi-automatic / manual		
<b>Lens</b>			
Focal length	3.84 ~ 88.4 mm, 23x	3.5 ~ 105mm, 30X	3.4 ~ 122.4mm, 36X
Zoom speed	Approx.5.1s (optical Wide-Tele)	Approx.5.4s (Optical Wide-Tele)	Approx.5.4s (Optical Wide-Tele)
Angle of view	52.2 ~ 2.36° (Wide-Tele)	56.4 ~ 2.0° (Wide-Tele)	57.8 ~ 1.7° (Wide-Tele)
Min. working distance	10 ~ 1,200mm (Wide-Tele)	10 ~ 1,000mm(Wide-Tele)	10 ~ 1,000mm(Wide-Tele)
Aperture range	F1.6 ~ F4.5	F1.4 ~ F3.7	F1.6 ~ F4.5
<b>Pan and tilt</b>			
Pan range	360° endless		
Pan speed	Pan manual speed: 0.1° ~ 160°/s, pan preset speed: 240°/s		
Tilt range	-10° ~ 90° (auto flip )		
Tilt speed	Tilt manual speed: 0.1° ~ 120°/s, tilt preset speed: 200°/s		
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples		
Number of preset	256		
Patrol	8 patrols, up to 32 presets per patrol		
Pattern	4 patterns, with the total recording time not less than 10 min		
Power loss recovery	Support		
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan		
PTZ position display	On / off		
Freeze Frame	--	Support	Support
Password protection	Support		
Zone scanning / display	Scanning within programmed zone, display zone title		
Camera title	Programmable title display		
Compass	Support , the north can be set		
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan		
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text		
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters		
<b>Infrared</b>			
IR range	80m		
IR irradiation angle	Adjustable by zoom		
<b>Alarm</b>			
Alarm input	2 (7 alarm inputs optional)		
Alarm output	2 relay outputs, alarm response actions configurable (additional wires required)		
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output		
<b>Input/ output</b>			
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC		
<b>Fiber interface (available for fiber dome only)</b>			
Data mode	1-channel analog video and 1-channel reverse RS-485 data		
Physical interface	FC (SC optional)		
Fiber wavelength	TX1310 / RX1550nm		
Fiber type	Single fiber / single mode		
Transmission distance	20km, 40km / 60km / 80km optional		
<b>General</b>			
Menu language	English, Chinese		
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Power supply	24 VAC (12 VDC optional)		
Power consumption	50W max.		
Working temperature / humidity	-30°C ~ 65°C (-22°F ~ 149°F), 90% or less		
Protection level	IP66 standard, TVS 3,000V lightning protection, surge protection and voltage transient protection		
Mounting	Various mounting modes optional		
Dimensions	Φ 230.6 × 351.5mm (Φ 9.08" × 13.84" )		
Weight (approx.)	5.5kg (12.13lbs)		



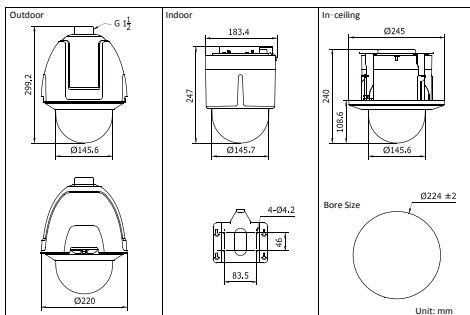
# DS-2AF1-713-B IR WDR Analog High Speed Dome



## Key features

- 1/4" Sony EXVIEW HAD progressive scan CCD
- 128x wide dynamic range
- 540TVL high resolution
- True day / night
- 80m IR range
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Accessories

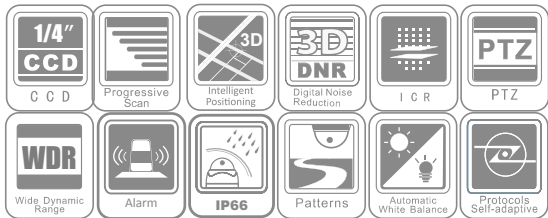


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

DS-2AF1-713-B	
<b>Camera</b>	
Image sensor	1/4" SONY EXVIEW HAD progressive scan CCD
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL
Signal system	PAL / NTSC
Min. illumination	Color: 0.7 lux@F1.4, B/W: 0.01 lux@F1.4, 0 lux with IR
White balance	Auto / Manual / ATW / Indoor / Outdoor / Outdoor Auto / sodium lamp
AGC	Auto / manual
S/N ratio	≥ 50dB
NR	High / Medium / Low / off
BLC	On / off
WDR	128x( On / Off / Auto)
Shutter time	PAL: 1/3 ~ 1/10,000s, NTSC: 1/4 ~ 1/10,000s
Day & night	IR cut filter
Digital zoom	12x
Privacy mask	24 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen
Focus model	Auto / semi-automatic / manual
<b>Lens</b>	
Focal length	4.1 ~ 73.8mm, 18x
Zoom speed	Approx. 2.0s (optical Wide-Tele)
Angle of view	48 ~ 2.8° (Wide-Tele)
Min. working distance	290 ~ 800mm (Wide-Tele)
Aperture range	F1.4 ~ F3.0
<b>Pan and tilt</b>	
Pan range	360° endless
Pan speed	Pan manual speed: 0.1° ~ 160°/s, pan preset speed: 240°/s
Tilt range	-10° ~ 90° (auto flip)
Tilt speed	Tilt manual speed: 0.1° ~ 120°/s, tilt preset speed: 200°/s
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the total recording time not less than 10 min
Power loss recovery	Support
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
PTZ position display	On / off
Freeze frame	Support
Password protection	Support
Zone scanning / display	Scanning within programmed zone, display zone title
Camera title	Programmable title display
Compass	Support, the north can be set
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters
<b>Infrared</b>	
IR range	80m
IR irradiation angle	Adjustable by zoom
<b>Alarm</b>	
Alarm input	2 (7 alarm inputs optional)
Alarm output	2 relay outputs, alarm response actions configurable (additional wires required)
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output
<b>Input / output</b>	
Monitor output	1.0V(p-p) / 75Ω, NTSC (or PAL) composite, BNC
<b>Fiber interface (available for fiber dome only)</b>	
Data mode	1-channel analog video and 1-channel reverse RS-485 data
Physical interface	FC (SC optional)
Fiber wavelength	TX1310 / RX1550nm
Fiber type	Single fiber / single mode
Transmission distance	20km, 40km / 60km / 80km optional
<b>General</b>	
Menu language	English, Chinese
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Power supply	24 VAC (12 VDC optional)
Power consumption	50W max
Working temperature / humidity	-30°C ~ 65°C (-22°F ~ 149°F), 90% or less
Protection level	IP66 standard, TVS 3,000V lightning protection, surge protection and voltage transient protection
Mounting	Various mounting modes optional
Dimensions	Φ 230.6 × 351.5mm (Φ 9.08" × 13.84")
Weight (approx.)	5.5kg (12.13lbs)

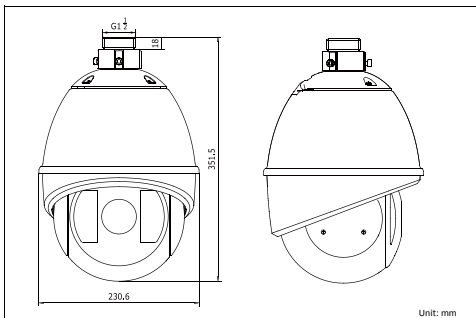
# DS-2AF1-715/717-B IR WDR Analog High Speed Dome



## Key features

- 1/4" Sony EXVIEW HAD progressive scan CCD
- 128x wide dynamic range
- 540TVL high resolution
- True day / night
- 80m IR range
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Accessories

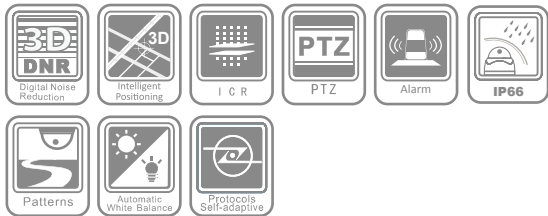


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2AF1-715-B	DS-2AF1-717-B
<b>Camera</b>		
Image sensor	1/4" SONY EXVIEW HAD progressive scan CCD	1/4" SONY EXVIEW HAD progressive scan CCD
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)	
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL	
Signal system	PAL / NTSC	
Min.illumination	Color: 0.65 lux@F1.35, B/W: 0.005 lux@F1.35, 0 lux with IR	Color: 1.4Lux/F1.6, B/W: 0.01Lux/F1.6 , 0 Lux with IR
White balance	Auto / Manual / ATW / Indoor / Outdoor / Outdoor Auto /sodium lamp	
AGC	Auto / manual	
S/N ratio	≥ 50dB	
BLC	On / off	
WDR	--	128x (on / off / auto)
Anti-shake	On / off	
Shutter time	PAL: 1/3 ~ 1/10,000s, NTSC: 1/4 ~ 1/10,000s	
Day & night	IR cut filter	
Digital zoom	12x	
Privacy mask	24 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen	
Focus model	Auto / semi-automatic / manual	
<b>Lens</b>		
Focal length	3.5 ~ 98mm, 28x	3.4 ~ 122.4mm,36X
Zoom speed	Approx.1.7s (optical Wide-Tele)	Approx.2.7s (Optical Wide-Tele)
Angle of view	55.8 ~ 2.1° (Wide-Tele)	57.8 ~ 1.7° (Wide-Tele)
Min. working distance	10 ~ 1,500mm (Wide-Tele)	320 ~ 1,500mm (Wide-Tele)
Aperture range	F1.35 ~ F3.7	F1.6 ~ F4.5
<b>Pan and tilt</b>		
Pan range	360° endless	
Pan speed	Pan manual speed: 0.1° ~ 160°/s, pan preset speed: 240°/s	
Tilt range	-10° ~ 90° (auto flip )	
Tilt speed	Tilt manual speed: 0.1° ~ 120°/s, tilt preset speed: 200°/s	
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
Number of preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the total recording time not less than 10 min	
Power loss recovery	Support	
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
PTZ position display	On / off	
Freeze frame	Support	
Password protection	Support	
Zone scanning / display	Scanning within programmed zone, display zone title	
Camera title	Programmable title display	
Compass	Support, the north can be set	
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text	
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters	
<b>Infrared</b>		
IR range	80m	
IR irradiation angle	Adjustable by zoom	
<b>Alarm</b>		
Alarm input	2 (7 alarm inputs optional)	
Alarm output	2 relay outputs, alarm response actions configurable (additional wires required)	
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output	
<b>Input / output</b>		
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
<b>Fiber interface (available for fiber dome only)</b>		
Data mode	1-channel analog video and 1-channel reverse RS-485 data	
Physical interface	FC (SC optional)	
Fiber wavelength	TX1310 / RX1550nm	
Fiber type	Single fiber / single mode	
Transmission distance	20km, 40km / 60km / 80km optional	
<b>General</b>		
Menu language	English, Chinese	
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
Power supply	24 VAC (12 VDC optional)	
Power consumption	50W max	
Working temperature / humidity	-30°C ~ 65°C (-22°F ~ 149°F), 90% or less	
Protection level	IP66 standard, TVS 3,000V lightning protection, surge protection and voltage transient protection	
Mounting	Various mounting modes optional	
Dimensions	Φ230.6 × 351.5mm ( Φ9.08" × 13.84" )	
Weight (approx.)	5.5kg (12.13lbs)	

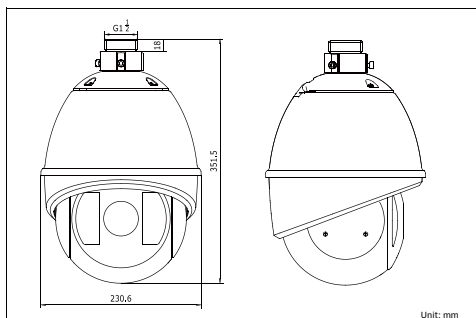
# DS-2AF1-71C/71D IR Analog High Speed Dome



## Key features

- Super low Illumination
- 540 TVL high resolution
- True day / night
- 3D intelligent positioning function
- 3D digital noise reduction
- 80m IR range
- IP66 rating

## Dimensions



## Accessories

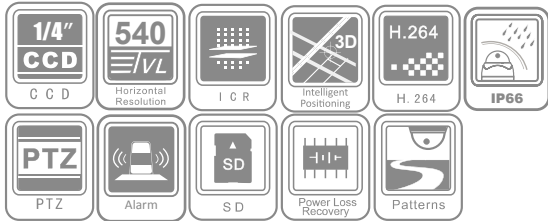


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2AF1-71C (Outdoor)	DS-2AF1-71D(Outdoor)
<b>Camera</b>		
Image sensor	1/4 inch solid state progressive scan CCD	1/3" solid state sony CCD
Effective pixel	PAL:752(H)×582(V); NTSC:768(H)×494(V)	
Horizontal resolution	Color: 540 TVL; B/W: 570 TVL	
Signal system	PAL / NTSC	
Min.illumination	Color: 0.1Lux/F1.4; B/W: 0.01Lux/F1.4, 0 Lux with IR	Color: 0.025Lux/F1.6B/W: 0.0025Lux/F1.6, 0 Lux with IR
White balance	Auto / Manual	
AGC	Auto / Manual	
S/N ratio	≥ 50dB	
NR	High / Medium / Low / off	
BLC	On / Off	
WDR	128x( On / Off/Auto)	--
Anti-shake	On / Off	
Shutter time	PAL: 1/3-1/10,000s, NTSC: 1/4-1/10,000s	
Day & night	IR Cut Filter	
Digital zoom	12x	
Privacy mask	4 privacy masks programmable; a maximum of 4 zones can be masked simultaneously on the same video screen	
Focus model	Auto / Semiautomatic / Manual	
<b>Lens</b>		
Focal length	3.4 - 119mm, 35X	4.7 - 84.6mm,18X
Zoom speed	Approx.4.6s (Optical Wide-Tele)	Approx.3.5s (Optical Wide-Tele)
Angle of view	55.8 - 1.7°(Wide-Tele)	54.7 - 3.1°(Wide-Tele)
Min. working distance	10 - 1000mm (Wide-Tele)	10 - 1,500mm(Wide-Tele)
Aperture range	F1.4 - F4.2	F1.6 - F2.8
<b>Pan and tilt</b>		
Pan range	360° endless	
Pan speed	Pan Manual Speed: 0.1°-160°/s, Pan Preset Speed: 240°/s	
Tilt range	-10°-90° (Auto Flip )	
Tilt speed	Tilt Manual Speed: 0.1°-120°/s, Tilt Preset Speed: 200°/s	
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
Number of preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the total recording time not less than 10 min	
Power loss recovery	Support	
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
PTZ position display	On / off	
Freeze frame	Support	
Password protection	Support	
Zone scanning / display	Scanning within programmed zone, display zone title	
Camera title	Programmable title display	
Compass	Support , the north can be set	
Scheduled task	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
RS-485 communication diagnosis	Including failure information, e.g., wrong address, baud rate errors, et., displayed on the video screen in text	
Manchester code communication diagnosis	Including failure information, e.g., wrong address, baud rate errors s displayed on the video screen in special characters	
<b>Infrared</b>		
IR range	80m	
IR irradiation angle	Adjustable by zoom	
<b>Alarm</b>		
Alarm input	2 (7 alarm inputs optional)	
Alarm output	2 relay outputs, alarm response actions configurable	
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output	
Input / output		
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
<b>Fiber interface (available for fiber dome only)</b>		
Data mode	1-channel analog video and 1-channel reverse RS-485 data	
Physical interface	FC (SC optional)	
Fiber wavelength	TX1310 / RX1550nm	
Fiber type	Single fiber / single mode	
Transmission distance	20km, 40km / 60km / 80km optional	
<b>General</b>		
Menu language	English, Chinese	
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
Power supply	24 VAC (12 VDC optional)	
Power consumption	50W max	
Working temperature/humidity	-30°C ~ 65°C (-22°F ~ 149°F) (outdoor) / -10°C ~ 50°C (14°F ~ 122°F) (indoor), 90% or less	
Protection level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection	
Mounting	Various mounting modes optional	
Dimensions	Φ230.6 ×351.5mm (Φ9.08" ×13.84" ) (Outdoor)	
Weight (approx.)	5.5kg(12.13lbs)	
Mount Option	Long-arm wall mount: DS-1614ZJ; Indoor short-arm wall mount: DS-1615ZJ Corner mount: DS-1633ZJ; Pole Mount: DS-1622ZJ; Power box mount:DS-1634ZJ	

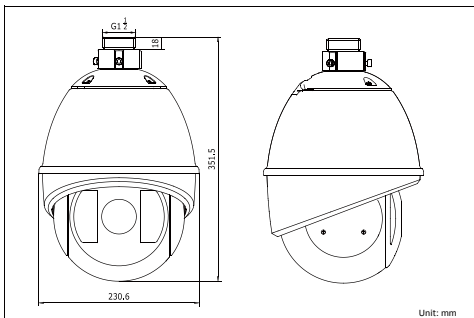
# DS-2DF1-714/716/718 IR Network High Speed Dome



## Key features

- 1/4" Sony Super HAD CCD
- True day / night
- 80m IR range
- 3D intelligent positioning function
- IP66 rating
- 23x optical zoom

## Dimensions



## Accessories

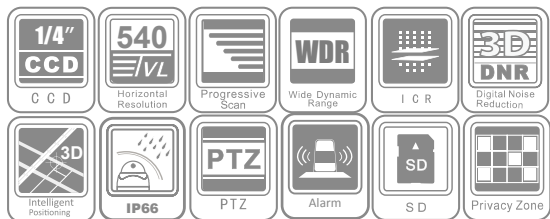


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2DF1-714 (outdoor)	DS-2DF1-716 (outdoor)	DS-2DF1-718 (outdoor)
<b>Camera</b>			
Image sensor	1/4" Sony Super HAD CCD		
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)		
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL		
Signal system	PAL / NTSC		
Min. illumination	Color: 0.2 lux@F1.6, B/W: 0.02 lux@F1.6, 0 lux with IR	Color: 0.2Lux/F1.4, B/W:0.02Lux/F1.4, 0 Lux with IR	Color: 0.2Lux/F1.6, B/W:0.02Lux/F1.6, 0 Lux with IR
White balance	Auto / manual / ATW / indoor / outdoor		
AGC	Auto / manual		
S / N ratio	≥ 50dB		
BLC	On / off		
Shutter time	PAL: 1/50 ~ 1/10,000s, NTSC: 1/60 ~ 1/10,000s	PAL:1-1/10,000s NTSC:1-1/10,000s	PAL:1-1/10,000s NTSC:1-1/10,000s
Day & night	IR cut filter		
Digital zoom	16x		
Privacy mask	24 privacy masks programmable		
Focus model	Auto / semi-automatic / manual		
<b>Lens</b>			
Focal length	3.84 ~ 88.4mm, 23x	3.5 ~ 105mm, 30X	3.4 ~ 122.4mm, 36X
Zoom speed	Approx.5.1s (optical Wide-Tele)	Approx.5.4s (Optical Wide-Tele)	Approx.5.4s (Optical Wide-Tele)
Angle of view	52.2 ~ 2.36° (Wide-Tele)	56.4 ~ 2.0° (Wide-Tele)	57.8 ~ 1.7° (Wide-Tele)
Min. working distance	10 ~ 1,200mm (Wide-Tele)	10 ~ 1,000mm(Wide-Tele)	10 ~ 1,000mm(Wide-Tele)
Aperture range	F1.6 ~ F4.5	F1.4 ~ F3.7	F1.6 ~ F4.5
<b>Pan and tilt</b>			
Pan range	360° endless		
Pan speed	Pan manual speed: 0.1° ~ 160°/s, pan preset speed: 240°/s		
Tilt range	-10° ~ 90° (auto flip)		
Tilt speed	Tilt manual speed: 0.1° ~ 120°/s, tilt preset speed: 200°/s		
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples		
Number of preset	256		
Patrol	8 patrols, up to 32 presets per patrol		
Pattern	4 patterns, with the recording time not less than 10 min per pattern		
Power-off memory	Support		
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan		
PTZ position display	On / Off		
<b>Infrared</b>			
IR irradiation distance	80m		
IR irradiation angle	Adjustable by zoom		
<b>Alarm</b>			
Alarm input	2 (7 alarm inputs optional)		
Alarm output	2 relay outputs, alarm response actions configurable		
Alarm action	Preset, patrol, pattern, SD/SDHC card recording, relay output, notification on client		
<b>Input / output</b>			
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC		
Audio input (LINE input)	2-2.4V[p-p]; output impedance: 1KΩ, ±10%		
Audio output	Line level, impedance: 600Ω		
<b>Network</b>			
Ethernet	10 base-T / 100 base-TX, RJ45 connector		
Max. image resolution	PAL:704 × 576, NTSC:704 × 480		
Frame rate	PAL: 25 fps (704 × 576), NTSC: 30 fps (704 × 480)		
Image compression	H.264		
Audio compression	G.711 / 16 kbps		
Audio mode	Off / audio input / audio output		
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)		
No. of simultaneous users	Up to 6 users		
Dual streams	Support		
Mini SD memory card	Manual REC / alarm REC. Built-in SD/SDHC slot, up to 32GB		
User/Host level	3 levels: administrator, camera control, live view only		
Security measures	User authentication (ID and PW), host authentication (MAC address)		
<b>Client GUI</b>			
Camera control	Pan / tilt, zoom, focus, click centering, drag zoom, iris, preset position call and program, auto mode.		
Camera name	Up to 18 characters		
Date & Time display	Time: week: date, 6 formats on the client		
Reading patrol message	Display and reading of preset message contained in each patrol via client software		
<b>Fiber interface (available for fiber dome only)</b>			
Data mode	10 base-T / 100 base-TX		
Physical interface	FC (SC optional)		
Fiber wavelength	TX1310 / RX1550nm		
Fiber type	Single fiber / single mode		
Transmission distance	20km, with 40km, 60km and 80km optional		
<b>General</b>			
Menu language	English, Chinese		
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive		
Power supply	24V AC (12V DC optional)		
Power consumption	50W max		
Working temperature / humidity	-30 °C ~ 65 °C (-22 °F ~ 149 °F), 90% or less		
Protection level	IP66 standard, TVS 3,000V lightning protection, surge protection and voltage transient protection		
Mounting	Various mounting modes optional		
Dimensions	Φ230.6 × 351.5mm (Φ9.08" × 13.84")		
Weight (approx.)	5.5kg (12.13lbs)		

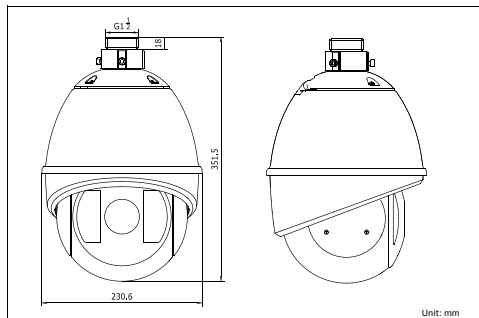
# DS-2DF1-713-B IR WDR Network High Speed Dome



## Key features

- 1/4" Sony EXVIEW HAD progressive scan CCD
- 128x wide dynamic range
- True day / night
- 80m IR range
- 3D intelligent positioning function
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Accessories

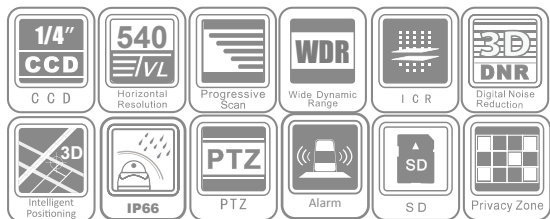


DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

DS-2DF1-713-B	
<b>Camera</b>	
Image sensor	1/4" Sony EXVIEW HAD progressive scan CCD
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL
Signal system	PAL / NTSC
Min. illumination	Color: 0.7 lux@F1.4, B/W: 0.01 lux@F1.4, 0 lux with IR
White balance	Auto / Manual / ATW / Indoor / Outdoor / Outdoor Auto / Sodium lamp
AGC	Auto / manual
S / N ratio	≥ 50dB
NR	High / Medium / Low / off
BLC	On / Off
WDR	128x (On / Off / Auto)
Shutter time	PAL: 1/3 ~ 1/10,000s, NTSC: 1/4 ~ 1/10,000s
Day & night	IR cut filter
Digital zoom	12x
Privacy mask	24 privacy masks programmable
Focus model	Auto / semi-automatic / manual
<b>Lens</b>	
Focal length	4.1 ~ 73.8mm, 18x
Zoom speed	Approx. 2.0s (optical Wide-Tele)
Angle of view	48 ~ 2.8° (Wide-Tele)
Min. working distance	290 ~ 800mm (Wide-Tele)
Aperture range	F1.4 ~ F3.0
<b>Pan and tilt</b>	
Pan range	360° endless
Pan speed	Pan manual speed: 0.1° ~ 160°/s, pan preset speed: 240°/s
Tilt range	-10° ~ 90° (auto flip)
Tilt speed	Tilt manual speed: 0.1° ~ 120°/s, tilt preset speed: 200°/s
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the recording time not less than 10 min per pattern
Power-off memory	Support
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan
PTZ position display	On / off
Freeze frame	Support
<b>Infrared</b>	
IR irradiation distance	80m
IR irradiation angle	Adjustable by zoom
<b>Alarm</b>	
Alarm input	2 (7 alarm inputs optional)
Alarm output	2 relay outputs, alarm response actions configurable
Alarm action	Preset, patrol, pattern, SD/SDHC card recording, relay output, notification on client
<b>Input/ Output</b>	
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%
Audio output	Line level, impedance: 600Ω
<b>Network</b>	
Ethernet	10 base-T / 100 base-TX
Max. image resolution	PAL: 704 × 576, NTSC: 704 × 480
Frame rate	PAL: 25fps (704 × 576), NTSC: 30fps (704 × 480)
Image compression	H.264
Audio compression	G.711 / 16kbps
Audio mode	Off / audio input / audio output
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)
No. of simultaneous users	Up to 6 users
Dual streams	Support
Mini SD memory card	Manual REC / alarm REC. Built-in SD/SDHC slot, up to 32GB
User / Host level	3 levels: administrator, camera control, live view only
Security measures	User authentication (ID and PW), host authentication (MAC address)
<b>Client GUI</b>	
Camera control	Pan / tilt, zoom, focus, click centering, drag zoom, iris, preset position call and program, auto mode.
Camera name	Up to 18 characters
Date & time display	Time: week: date, 6 formats on the client
Reading patrol message	Display and reading of preset message contained in each patrol via client software
<b>Fiber interface (available for fiber dome only)</b>	
Data mode	10 base-T / 100 base-TX
Physical interface	FC (SC optional)
Fiber wavelength	TX1310 / RX1550nm
Fiber type	Single fiber / single mode
Transmission distance	20km, with 40km, 60km and 80km optional
<b>General</b>	
Menu language	English, Chinese
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive
Power supply	24 VAC (12 VDC optional)
Power consumption	50W max
Working temperature / humidity	-30 °C ~ 65 °C (-22 °F ~ 149 °F), 90% or less
Protection level	IP66 standard, TVS 3,000V lightning protection, surge protection and voltage transient protection
Mounting	Various mounting modes optional
Dimensions	Φ 230.6 × 351.5mm (Φ 9.08" × 13.84")
Weight (approx.)	5.5kg (12.13lbs)

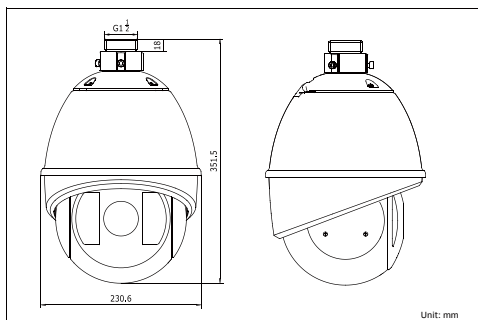
# DS-2DF1-715/717-B IR WDR Network High Speed Dome



## Key features

- 1/4" Sony EXVIEW HAD progressive scan CCD
- 128x wide dynamic range
- True day / night
- 80m IR range
- 3D intelligent positioning function
- 3D digital noise reduction
- IP66 rating

## Dimensions



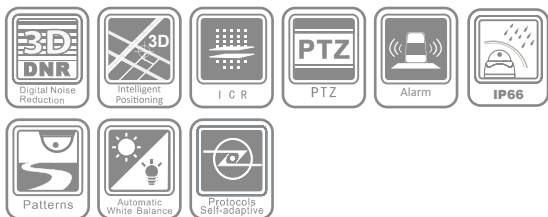
## Accessories



DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

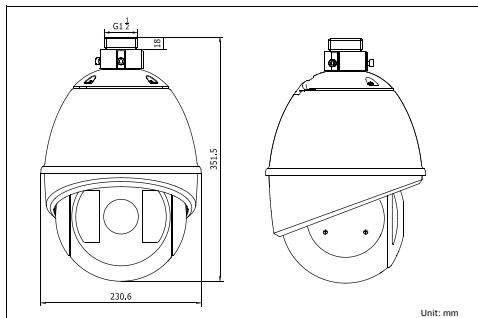
	DS-2DF1-715-B (outdoor)	DS-2DF1-717-B (outdoor)
<b>Camera</b>		
Image sensor	1/4" Sony EXVIEW HAD progressive scan CCD	1/4" SONY EXVIEW HAD progressive scan CCD
Effective pixel	PAL: 752 (H) × 582 (V), NTSC: 768 (H) × 494 (V)	
Horizontal resolution	Color: 540 TVL, B/W: 570 TVL	
Signal system	PAL / NTSC	
Min. illumination	Color: 0.65Lux/F1.35, B/W: 0.005Lux/F1.35, 0 Lux with IR	Color: 1.4Lux/F1.6, B/W: 0.01Lux/F1.6, 0 Lux with IR
White balance	Auto / Manual / ATW / Indoor / Outdoor / Outdoor Auto / sodium lamp	
AGC	Auto / manual	
S / N ratio	≥ 50dB	
BLC	On / Off	
WDR	128x (on / off / auto)	
Anti-shake	On / off	
Shutter time	PAL: 1/3 ~ 1/10,000s, NTSC: 1/4 ~ 1/10,000s	
Day & night	IR cut filter	
Digital zoom	12x	
Privacy mask	24 privacy masks programmable	
Focus model	Auto / semi-automatic / manual	
<b>Lens</b>		
Focal length	3.5 ~ 98mm, 26x	3.4 ~ 122.4mm, 36X
Zoom speed	Approx. 1.7s (optical Wide-Tele)	Approx. 2.7s (Optical Wide-Tele)
Angle of view	55.8 ~ 2.1° (Wide-Tele)	57.8 ~ 1.7° (Wide-Tele)
Min. working distance	10 ~ 1,500mm (Wide-Tele)	320 ~ 1,500mm (Wide-Tele)
Aperture range	F1.35 ~ F3.7	F1.6 ~ F4.5
<b>Pan and tilt</b>		
Pan range	360° endless	
Pan speed	Pan manual speed: 0.1° ~ 160°/s, pan preset speed: 240°/s	
Tilt range	-10° ~ 90° (auto flip)	
Tilt speed	Tilt manual speed: 0.1° ~ 120°/s, tilt preset speed: 200°/s	
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
Number of preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the recording time not less than 10 min per pattern	
Power-off memory	Support	
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
PTZ position display	On / off	
Freeze frame	Support	
<b>Infrared</b>		
IR irradiation distance	80m	
IR irradiation angle	Adjustable by zoom	
<b>Alarm</b>		
Alarm input	2 (7 alarm inputs optional)	
Alarm output	2 relay outputs, alarm response actions configurable	
Alarm action	Preset, patrol, pattern, SD/SDHC card recording, relay output, notification on client	
<b>Input/ Output</b>		
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%	
Audio output	Line level, impedance: 600Ω	
<b>Network</b>		
Ethernet	10 base-T / 100 base-TX	
Max. image resolution	PAL: 704 × 576, NTSC: 704 × 480	
Frame rate	PAL: 25fps (704 × 576), NTSC: 30fps (704 × 480)	
Image compression	H.264	
Audio compression	G.711 / 16kbps	
Audio mode	Off / audio input / audio output	
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional)	
No. of simultaneous users	Up to 6 users	
Dual streams	Support	
Mini SD memory card	Manual REC / alarm REC. Built-in SD/SDHC slot, up to 32GB	
User / Host level	3 levels: administrator, camera control, live view only	
Security measures	User authentication (ID and PW), host authentication (MAC address)	
<b>Client GUI</b>		
Camera control	Pan / tilt, zoom, focus, click centering, drag zoom, iris, preset position call and program, auto mode.	
Camera name	Up to 18 characters	
Date & time display	Time: week: date, 6 formats on the client	
Reading patrol message	Display and reading of preset message contained in each patrol via client software	
<b>Fiber interface (available for fiber dome only)</b>		
Data mode	10 base-T / 100 base-TX	
Physical interface	FC (SC optional)	
Fiber wavelength	TX1310 / RX1550nm	
Fiber type	Single fiber / single mode	
Transmission distance	20km, with 40km, 60km and 80km optional	
<b>General</b>		
Menu language	English, Chinese	
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
Power supply	24 VAC (12 VDC optional)	
Power consumption	50W max	
Working temperature / humidity	-30 °C ~ 65 °C (-22 °F ~ 149 °F), 90% or less	
Protection level	IP66 standard, TVS 3,000V lightning protection, surge protection and voltage transient protection	
Mounting	Various mounting modes optional	
Dimensions	Φ230.6 × 351.5mm (Φ9.08" × 13.84")	
Weight (approx.)	5.5kg (12.13lbs)	



## Key features

- Super low Illumination
- H.264 video compression
- 540 TVL high resolution
- True day / night
- 3D intelligent positioning function
- 3D digital noise reduction
- 80m IR range
- IP66 rating

## Dimensions



## Accessories



DS-1614ZJ  
(Long-arm Wall Mount Bracket)

## Specifications

	DS-2DF1-71C(Outdoor)	DS-2DF1-71D(Outdoor)
<b>Camera</b>		
Image sensor	1/4 inch solid state progressive scan CCD	1/3' solid state sony CCD
Effective pixel	PAL:752(H)×582(V); NTSC:768(H)×494(V)	
Horizontal resolution	Color: 540 TVL; B/W: 570 TVL	
Signal system	PAL / NTSC	
Min.illumination	Color: 0.1Lux/F1.4; B/W: 0.01Lux/F1.4, 0 lux with IR	Color: 0.025Lux/F1.6B/W: 0.0025Lux/F1.6, 0 lux with IR
White balance	Auto / Manual	
AGC	Auto / Manual	
S/N ratio	≥ 50dB	
NR	High / Medium / Low / off	
BLC	On / Off	
WDR	128x( On / Off/Auto)	--
Anti-shake	On / Off	--
Shutter time	PAL: 1/3-1/10,000s, NTSC: 1/4-1/10,000s	
Day & night	IR Cut Filter	
Digital zoom	12x	
Privacy mask	24 privacy masks programmable	
Focus model	Auto / Manual	
<b>Lens</b>		
Focal length	3.4 - 119mm, 35X	4.7 - 84.6mm,18X
Zoom speed	Approx.4.6s (Optical Wide-Tele)	Approx.3.5s (Optical Wide-Tele)
Angle of view	55.8 - 1.7°(Wide-Tele)	54.7 - 3.1°(Wide-Tele)
Min. working distance	10 - 1000mm (Wide-Tele)	10 - 1.500mm(Wide-Tele)
Aperture range	F1.4 - F4.2	F1.6 - F2.8
<b>Pan and tilt</b>		
Pan range	360° endless	
Pan speed	Pan Manual Speed: 0.1°-160°/s, Pan Preset Speed: 240°/s	
Tilt range	-10°-90° (Auto Flip )	
Tilt speed	Tilt Manual Speed: 0.1°-120°/s, Tilt Preset Speed: 200°/s	
Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
Number of preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Pattern	4 patterns, with the total recording time not less than 10 min	
Power loss recovery	Support	
Park action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan	
PTZ position display	On / off	
Freeze frame	Support	
<b>Infrared</b>		
IR range	80m	
IR irradiation angle	Adjustable by zoom	
<b>Alarm</b>		
Alarm input	2 (7 alarm inputs optional)	
Alarm output	2 relay outputs, alarm response actions configurable	
Alarm action	Preset / patrol / pattern / pan scan / tilt scan / random scan / frame scan / panorama scan / relay output	
<b>Input / output</b>		
Monitor output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
Audio input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%	
Audio output	Line level, impedance: 600Ω	
<b>Network</b>		
Ethernet	10Base-T / 100Base-TX	
Max. Image Resolution	PAL:704×576, NTSC:704×480	
Frame Rate	PAL: 25 fps (704×576), NTSC: 30 fps (704×480)	
Image Compression	H.264	
Audio Compression	G.711 / 16kbps	
Audio Mode	Off / Audio input / Audio output	
Protocols	TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, RTSP, PPPoE, SMTP, NTP (FTP, SNMP optional )	
No. of Simultaneous Users	Up to 6 users	
Dual Streams	Support	
Mini SD Memory Card	Manual REC / Alarm REC, Built-in SD/SDHC Slot, up to 32GB	
User/Host Level	3 Levels: Administrator, Camera control, Live view only	
Security Measures	User authentication (ID and PW), Host authentication (MAC address)	
<b>Client GUI</b>		
Camera Control	Pan / Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.	
Camera Name	Up to 18 characters	
Date & Time Display	Time: Week: Date, 6 formats on the Client	
Reading Patrol Message	Display and reading of preset message contained in each patrol via client software	
<b>Fiber interface (available for fiber dome only)</b>		
Data mode	10 Base-T / 100Base-TX	
Physical interface	FC(SC optional)	
Fiber wavelength	TX1310/RX1550nm	
Fiber type	Single Fiber/Singlemode	
Transmission distance	20Km, with 40Km, 60Km and 80Km optional	
<b>General</b>		
Menu language	English, Chinese	
RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
Power supply	24 VAC (12 VDC optional)	
Power consumption	50W max	
Working temperature/humidity	-30°C - 65°C (-22°F - 149°F) (outdoor) / -10°C - 50°C (14°F - 122°F) (indoor), 90% or less	
Protection level	IP66 standard (outdoor), TVS 3,000V lightning protection, surge protection and voltage transient protection	
Mounting	Various mounting modes optional	
Dimensions	Φ230.6×351.5mm (Φ9.08"×13.84") (Outdoor)	
Weight (approx.)	5.5kg(12.13lbs)	
Mount Option	Long-arm wall mount: DS-1614ZJ; Indoor short-arm wall mount: DS-1615ZJ Corner mount: DS-1633ZJ; Pole Mount: DS-1622ZJ; Power box mount:DS-1634ZJ	

# NETWORK CAMERA

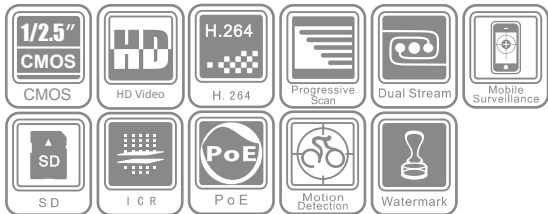




# Network Camera Selection Chart

	Form	Resolution	Full HD	Day/night	Indoor	Outdoor/IP66	WDR	Low light	IR	Vandal-proof	Wi-Fi	Motorized VF lens	Page
DS-2CD883F-E(W)	Box	5MP	√	ICR	√						√		P.33
DS-2CD854F-E(W)	Box	3MP	√	ICR	√						√		P.34
DS-2CD855F-E	Box	2MP	√	ICR	√			√					P.35
DS-2CD853F-E(W)	Box	2MP		ICR	√						√		P.36
DS-2CD864FWD-E(W)	Box	1.3MP		ICR	√		√	√			√		P.37
DS-2CD863P(N)F-E(W)	Box	1.3MP		ICR	√						√		P.38
DS-2CD893P(N)FWD-E(W)	Box	4CIF		ICR	√		√				√		P.39
DS-2CD893P(N)F-E(W)	Box	4CIF		ICR	√			√			√		P.40
DS-2CD833F-E(W)	Box	VGA		ICR	√			√			√		P.41
DS-2CD783F-E(I)	Dome	5MP	√	√	√				√	√			P.48
DS-2CD754F-E(I)	Dome	3MP	√	√	√				√	√			P.50
DS-2CD754FWD-E(I)	Dome	2MP	√	√	√		√		√	√			P.49
DS-2CD753F-E(I)	Dome	2MP		√	√				√	√			P.51
DS-2CD764FWD-E(I)	Dome	1.3MP		√	√		√	√	√	√			P.52
DS-2CD763P(N)F-E(I)	Dome	1.3MP		√	√				√	√			P.53
DS-2CD793P(N)FWD-E(I)	Dome	4CIF		√	√		√		√	√			P.54
DS-2CD793P(N)F-E(I)	Dome	4CIF		√	√			√	√	√			P.55
DS-2CD733F-E(I)	Dome	VGA		√	√			√	√	√			P.56
DS-2CD7153-E	Mini Dome	2MP		√		√				√			P.57
DS-2CD7164-E	Mini Dome	1.3MP		√		√		√		√			P.58
DS-2CD7133-E	Mini Dome	VGA		√		√		√		√			P.59
DS-2CD8254F-EI(Z)	Bullet	3MP	√	ICR		√			√			√	P.42
DS-2CD8253F-EI(Z)	Bullet	2MP		ICR		√			√			√	P.43
DS-2CD8264FWD-EI(Z)	Bullet	1.3MP		ICR		√	√	√	√			√	P.44
DS-2CD8233F-EI(Z)	Bullet	VGA		ICR		√	√	√	√			√	P.45
DS-2CD8153F-E(W)	Cube	2MP		√	√						√		P.46
DS-2CD8133F-E(W)	Cube	VGA		√	√			√			√		P.47

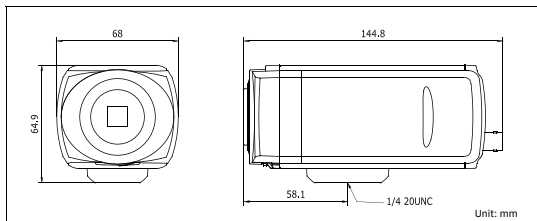
# DS-2CD883F-E(W) 5MP Network Camera



## Key features

- Up to 5 megapixel resolution
- Full HD 1080P real time video
- H.264 / MPEG4 / MJPEG video compression
- 1/2.5" progressive scan CMOS
- True day / night
- Wi-Fi optional

## Dimensions



## Specifications

DS-2CD883F-E(W)	
<b>Camera</b>	
Image sensor	1/2.5" progressive scan CMOS
Min. illumination	Color: 0.6 lux@F1.2, AGC on B/W: 0.08 lux @F1.2, AGC on
Shutter time	1/25s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	2560 × 1920
Frame rate	50 Hz: 6.25 fps (2560 × 1920) 12.5 fps (2048 × 1536) 25 fps (1920 × 1080) 25 fps (1600 × 1200) 25 fps (1280 × 720) 60 Hz: 7.5 fps (2560 × 1920) 15 fps (2048 × 1536) 30 fps (1920 × 1080) 30 fps (1600 × 1200) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (Line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F), humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 5W (max. 8W with IR cut filter on) -W: max. 7W (max. 10W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.68" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Available models

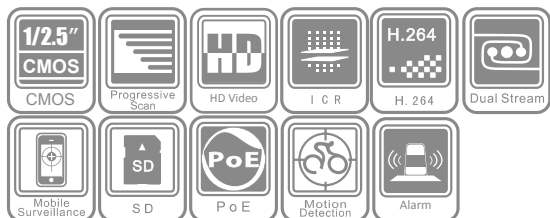
DS-2CD883F-E, DS-2CD883F-EW

\* -W: Wi-Fi (802.11g/b/n)

## Accessories



# DS-2CD854F-E(W) 3MP Network Camera



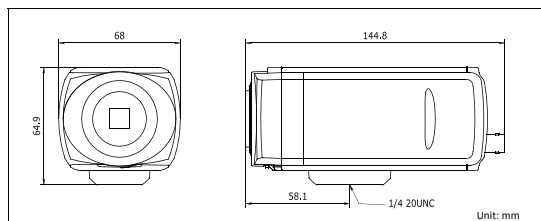
## Specifications

DS-2CD854F-E(W)	
<b>Camera</b>	
Image sensor	1/2.5" progressive scan CMOS
Min. illumination	Color: 0.6 lux@F1.2, AGC on B/W: 0.08 lux@F1.2, AGC on
Shutter time	1/25s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	2048 × 1536
Frame rate	50 Hz: 12.5 fps (2048 × 1536) 25 fps (1920 × 1080) 25 fps (1600 × 1200) 60 Hz: 15 fps (2048 × 1536) 30 fps (1920 × 1080) 30 fps (1600 × 1200)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10% , PoE (802.3af)
Power consumption	max. 5.5W (max. 8.5W with IR cut filter on) -W: max. 7W (max. 10W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.68" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Key features

- Up to 3 megapixel resolution
- Full HD 1080P real time video
- H.264 / MPEG4 / MJPEG video compression
- 1/2.5" progressive scan CMOS
- True day / night
- Wi-Fi optional

## Dimensions



## Available models

DS-2CD854F-E, DS-2CD854F-EW

\* "-W": Wi-Fi (802.11g/b/n)

## Accessories



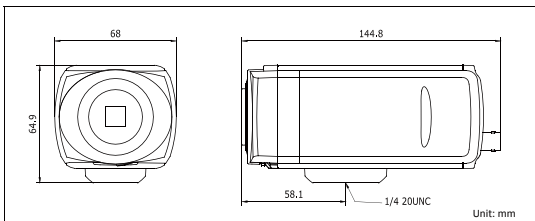
# DS-2CD855F-E 2MP Low-light Network Camera



## Key features

- 2 mega-pixel (1920 x 1080) high resolution
- Full HD1080p real-time video recording
- True day / night
- Super low light
- Auto iris with DC Drive
- PoE
- 3D DNR

## Dimensions



## Specifications

DS-2CD855F-E	
<b>Camera</b>	
Image sensor	1/3" Progressive Scan CMOS
Min. illumination	Color: 0.05 lux @ (F1.2, AGC ON) B/W: 0.005 lux @ (F1.2, AGC ON)
Shutter time	1/25s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. Image resolution	1920 × 1080
Frame rate	50 Hz: 25 fps (1920 × 1080) 60 Hz: 30 fps (1920 × 1080)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 6.5W (max. 9.5 W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.67" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Available models

DS-2CD855F-E

## Accessories



# DS-2CD853F-E(W) 2MP Network Camera



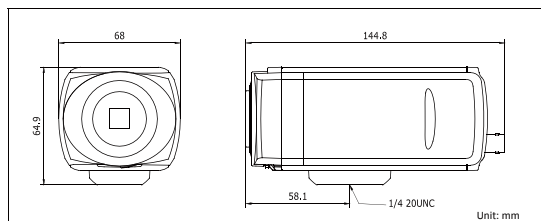
## Specifications

DS-2CD853F-E(W)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	Color: 0.5 lux@F1.2, AGC on, 0.1 lux@F1.2, AGC on, sens-up × 5 B/W: 0.05 lux@F1.2, AGC on, 0.01 lux@F1.2, AGC on, sens-up × 5
Shutter time	1/25s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1600 × 1200
Frame rate	50 Hz: 12.5 fps (1600 × 1200) 12.5 fps (1600 × 912) 25 fps (1280 × 960) 25 fps (1280 × 720) 60 Hz: 15 fps (1600 × 1200) 15 fps (1600 × 912) 25 fps (1280 × 960) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset sutton	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4.5W (max. 7.5W with IR cut filter on) -W: max. 6W (max. 9W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.68" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Key features

- Up to 2 megapixel resolution
- H.264 / MPEG4 / MJPEG video compression
- 1/3" progressive scan CMOS
- True day / night
- SD/SDHC card slot
- Wi-Fi optional

## Dimensions



## Available models

DS-2CD853F-E, DS-2CD853F-EW

\* -W: Wi-Fi (802.11g/b/n)

## Accessories



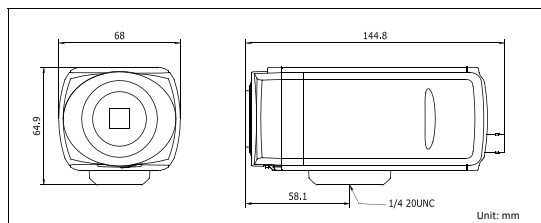
# DS-2CD864FWD-E(W) 1.3MP WDR Network Camera



## Key features

- Up to 1.3 megapixel (1280 x 960) high resolution
- Super low light
- 120 dB wide dynamic range
- True day / night
- 3D digital noise reduction
- Wi-Fi optional

## Dimensions



## Specifications

DS-2CD864FWD-E(W)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	Color: 0.01 lux@F1.2, AGC ON B/W: 0.001 lux@F1.2, AGC ON
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
Wide dynamic range	120 dB
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1280 x 960
Frame rate	50 Hz: 25 fps (1280 × 960) 25 fps (1280 × 720) 60 Hz: 30 fps (1280 × 960) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, FTP, SIP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet interface, 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 5.5W (max. 8.5W with IR cut filter on) -W: max. 7W (max. 10W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.7" × 2.2" × 5.7")
Weight	500g (1.1 lbs)

## Available models

DS-2CD864FWD-E, DS-2CD864FWD-EW

\* "-W" : Wi-Fi (802.11g/b/n)

## Accessories



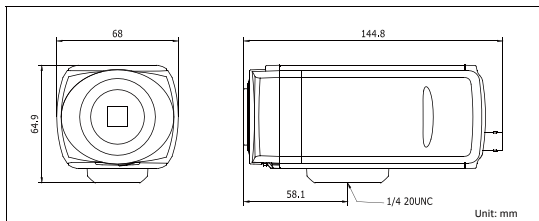
# DS-2CD863P(N)F-E(W) 1.3MP Network Camera



## Key features

- Up to 1.3 megapixel resolution
- Low illumination
- 1/3" Sony progressive scan CCD
- HD 720P real time video
- True day / night
- Wi-Fi optional

## Dimensions



## Accessories



## Specifications

DS-2CD863PF-E(W) / DS-2CD863NF-E(W)	
<b>Camera</b>	
Image sensor	1/3" Sony progressive scan CCD
Signal system	PAL / NTSC
Min. illumination	Color: 0.1 lux@F1.2, AGC on B/W: 0.01 lux@F1.2, AGC on
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1280 x 960
Frame rate	50 Hz: 12.5 fps (1280 × 960) 25 fps (1280 × 720) 60 Hz: 15 fps (1280 × 960) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 7.5W (max. 10.5W with IR cut filter on) -W: max 9 W (max. 12W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.68" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Available models

DS-2CD863PF-E, DS-2CD863NF-E, DS-2CD863PF-EW, DS-2CD863NF-EW

\* "-W": Wi-Fi (802.11g/b/n)

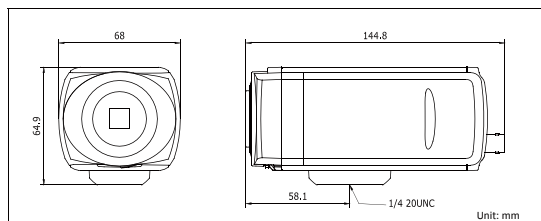
# DS-2CD893P(N)FWD-E(W) 4CIF WDR Network Camera



## Key features

- Real time video at 4CIF
- Low illumination
- 1/3" Sony vertical double density interline CCD
- 160x wide dynamic range
- True day / night
- Wi-Fi optional

## Dimensions



## Accessories



## Available models

DS-2CD893PFWD-E, DS-2CD893NFWD-E, DS-2CD893PFWD-EW, DS-2CD893NFWD-EW

\* -W : Wi-Fi (802.11g/b/n)

## Specifications

DS-2CD893PFWD-E(W) / DS-2CD893NFWD-E(W)	
<b>Camera</b>	
Image sensor	1/3" Sony vertical double density interline CCD
Signal system	PAL / NTSC
Min. illumination	Color: 0.1 lux@F1.2, AGC on B/W: 0.01 lux@F1.2, AGC on
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
Wide dynamic range	160x
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 8 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	PAL: 704 × 576 NTSC: 704 × 480
Frame rate	50 HZ: 25 fps (704 × 576) 60 HZ: 30 fps (704 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch, 3.5mm jack, Line IN/MIC IN
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 6W (max. 9W with IR cut filter on) -W: max. 7.5W (max. 10.5W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.67" × 2.56" × 5.70")
Weight	500g (1.10 lbs)



# DS-2CD893P(N)F-E(W) 4CIF Network Camera



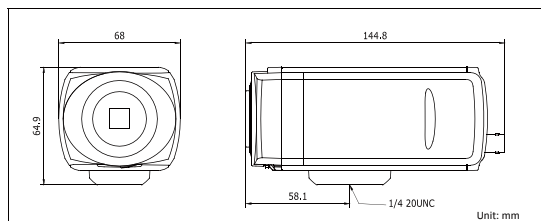
## Specifications

DS-2CD893PF-E(W) / DS-2CD893NF-E(W)	
<b>Camera</b>	
Image sensor	1/3" Sony CCD
Signal system	PAL / NTSC
Min. illumination	Color: 0.02 lux@F1.2, AGC on B/W: 0.002 lux@F1.2, AGC on
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	PAL: 704 × 576 NTSC: 704 × 480
Frame rate	50 HZ: 25 fps (704 × 576) 60 HZ: 30 fps (704 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch, 3.5mm jack, Line IN/MIC IN
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 6W (max. 9W with IR cut filter on) -W: max. 7.5W (max. 10.5W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.67" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Key features

- Real time video at 4CIF
- High performance 1/3" Sony CCD
- Low illumination
- True day / night
- Wi-Fi optional

## Dimensions



## Accessories



## Available models

DS-2CD893PF-E, DS-2CD893NF-E, DS-2CD893PF-EW, DS-2CD893NF-EW

\* -W: Wi-Fi (802.11g/b/n)

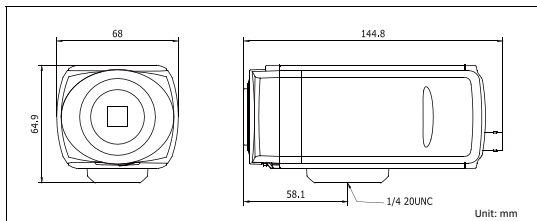
# DS-2CD833F-E(W) VGA Low Light Network Camera



## Key features

- Real time video at VGA (640 × 480)
- H.264 / MPEG4 / MJPEG video compression
- 1/4" progressive scan CMOS
- Super low illumination
- True day / night
- Wi-Fi optional

## Dimensions



## Specifications

DS-2CD833F-E(W)	
<b>Camera</b>	
Image sensor	1/4" progressive scan CMOS
Min. illumination	Color: 0.01 lux@F1.2, AGC on B/W: 0.001 lux@F1.2, AGC on
Shutter time	1/25s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 8 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. Image resolution	640 × 480
Frame rate	50 Hz: 25 fps (640 × 480) 60 Hz: 30 fps (640 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	1
Alarm output	1
Video output	1 Vp-p composite output (75 Ω / BNC)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4.5W (max. 7.5W with IR cut filter on) -W: max. 6W (max. 9W with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.67" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Available models

DS-2CD833F-E, DS-2CD833F-EW

\* "-W": Wi-Fi (802.11g/b/n)

## Accessories



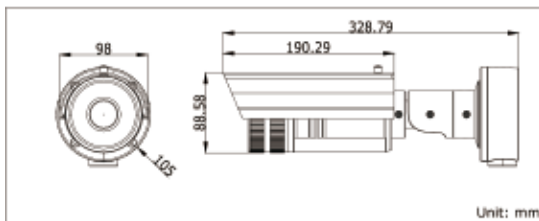
# DS-2CD8254F-EI(Z) 3MP IR Bullet Camera



## Key features

- 3 megapixel (2048 x 1536) high resolution
- Full HD1080p real-time video recording
- True day / night
- IP66 rating
- IR range: up to 30m
- Motorized VF lens optional

## Dimensions



## Specifications

DS-2CD8254F-EI(Z)	
<b>Camera</b>	
Image sensor	1/2.5" progressive scan CMOS
Min. illumination	0.6 lux@F1.2, AGC on, 0 lux with IR 0.7 lux@F1.6, AGC on, 0 lux with IR
Shutter time	1/25s ~ 1/100,000s
Lens	2.7 ~ 9 mm @F1.6, Angle of view: 101° ~ 30.4° -Z: Motorized VF lens ,PM stepping motor, F :18°/Step; Z:0.01mm/Step
Lens mount	Φ 14
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps – 16 Mbps
Dual stream	Yes
<b>Image</b>	
Max. image resolution	2048 x 1536
Frame rate	50 Hz: 12.5 fps (2048 x 1536) 25 fps (1920 x 1080) 25 fps (1600 x 1200) 60 Hz: 15 fps (2048 x 1536) 30 fps (1920 x 1080) 30 fps (1600 x 1200)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, FTP, SIP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
<b>Interface</b>	
Communication interface	1 RJ45 10M / 100M ethernet interface
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 9.5W -Z: max. 12W
Weather proof rating	IP66
IR range	Approx. 20 ~ 30m
Dimensions	98 × 88.58 × 328.79 mm (3.86" × 3.49" × 12.94")
Weight	1700g (3.75 lbs)

## Available models

DS-2CD8254F-EI, DS-2CD8254F-EIZ

"-Z": Motorized VF lens

\* DS-2CD8254F-E without IR feature is also available

# DS-2CD8253F-EI(Z) 2MP IR Bullet Camera



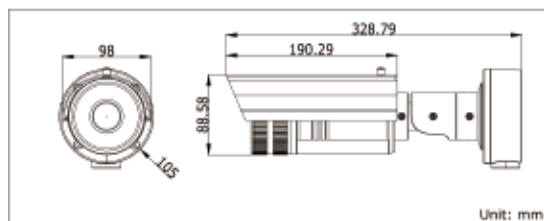
## Specifications

DS-2CD8253F-EI(Z)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.5 lux@F1.2, AGC on 0.1 lux@F1.2, AGC on, sens-up × 5 0 lux with IR
Shutter time	1/25s ~ 1/100,000 s
Lens	2.7 ~ 9mm @F1.2, Angle of view: 101° ~ 30.4° -Z: Motorized VF lens ,PM stepping motor, F :18°/Step; Z:0.01mm/Step
Lens mount	Φ14
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1600 x 1200
Frame rate	50 Hz: 12.5 fps (1600 × 1200) 12.5 fps (1600 × 912) 25 fps (1280 × 960) 25 fps (1280 × 720) 60 Hz: 15 fps (1600 × 1200) 15 fps (1600 × 912) 25 fps (1280 × 960) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, FTP, SIP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
<b>Interface</b>	
Communication interface	1 RJ45 10M / 100M ethernet interface
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 8.5W -Z: max. 12W
Weather-proof rating	IP66
IR range	Approx. 20 ~ 30m
Dimensions	98 × 88.58 × 328.79 mm (3.86" × 3.49" × 12.94")
Weight	1700g (3.75 lbs)

## Key features

- 2 megapixel (1600 x 1200) high resolution
- HD720p real-time video recording
- True day / night
- ePTZ control
- IP66 rating
- IR range: up to 30m
- Motorized VF lens optional

## Dimensions

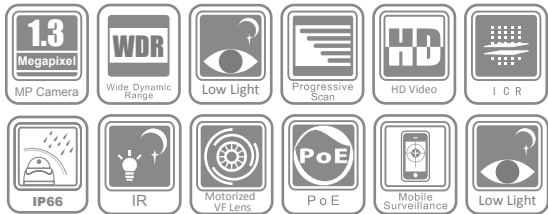


## Available models

DS-2CD8253F-EI, DS-2CD8253F-EIZ

"-Z": Motorized VF lens

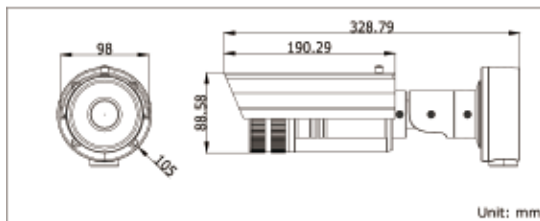
\* DS-2CD8253F-E without IR feature is also available



### Key features

- 1.3 megapixel (1280 x 960) high resolution
- 120dB wide dynamic range
- Super low light
- HD720p real-time video recording
- True day / night
- IP66 rating
- IR range: up to 30m
- Motorized VF lens optional

### Dimensions



### Specifications

DS-2CD8264FWD-EI(Z)	
<b>Camera</b>	
Image sensor	1/3" Progressive CMOS
Min. illumination	0.01 Lux @F1.2, AGC ON, 0 Lux with IR
Shutter time	1/25 s ~ 1/100,000 s
Lens	2.7 ~ 9 mm @F1.2, Angle of view: 101° ~ 30.4° -Z: Motorized VF lens ,PM stepping motor, F :18°/Step; Z:0.01mm/Step
Lens mount	Φ14
Auto iris	DC drive
Day & night	IR cut filter with auto switch
Wide dynamic range	120 dB
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Dual stream	Yes
<b>Image</b>	
Max. Image Resolution	1280 × 960
Frame rate	50Hz: 25fps (1280 × 960), 25fps (1280 × 720) 60Hz: 30fps (1280 × 960), 30fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, FTP, SIP, 802.1x, IPv6 optional)
Security	User authentication, watermark
<b>Interface</b>	
Communication interface	1 RJ45 10 M / 100 M Ethernet interface
<b>General</b>	
Operating conditions	-10 °C ~ 60 °C (14 °F ~ 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10% , PoE (802.3af)
Power consumption	Max. 10.5W -Z: max. 12W
Weather proof rating	IP66
IR range	Approx 20 to 30 meters
Dimensions	98 × 88.58 × 328.79 mm (3.86" × 3.49" × 12.94")
Weight	1700 g (3.75 lbs)

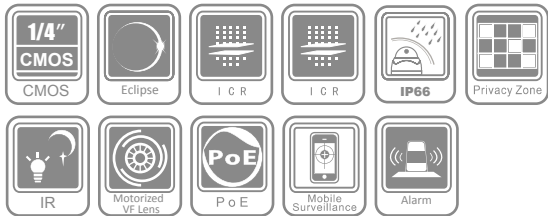
### Available models

DS-2CD8264FWD-EI, DS-2CD8264FWD-EIZ

\*\*"-Z": Motorized VF lens

\* DS-2CD8264FWD-E without IR feature is also available

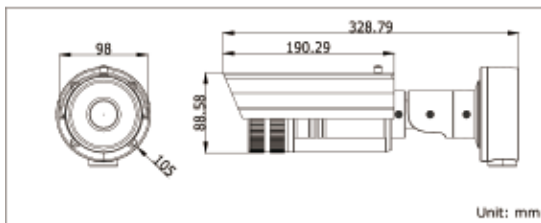
# DS-2CD8233F-EI(Z) VGA IR Bullet Camera



## Key features

- VGA (640 x 480) resolution
- Super low light
- True day / night
- IP66 rating
- IR range: up to 30m
- Motorized VF lens optional

## Dimensions



## Specifications

DS-2CD8233F-EI(Z)	
<b>Camera</b>	
Image sensor	1/4" Progressive CMOS
Min. illumination	0.01 lux @F1.2, AGC ON 0 lux with IR
Shutter time	1/25s ~ 1/100,000s
Lens	2.8 ~ 11 mm @F1.2, Angle of view: 92° ~ 27.2° -Z: Motorized VF lens ,PM stepping motor, F :18°/Step; Z:0.01mm/Step
Lens mount	Φ14
Auto iris	DC drive
Day & night	IR cut filter with auto switch
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Dual stream	Yes
<b>Image</b>	
Max. Image Resolution	640 × 480
Frame rate	50Hz: 25fps (640 × 480) 60Hz: 30fps (640 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, FTP, SIP, 802.1x, IPv6 optional)
Security	User Authentication, Watermark
<b>Interface</b>	
Communication interface	1 RJ45 10 M / 100 M Ethernet interface
<b>General</b>	
Operating conditions	-10 °C ~ 60 °C (14°F ~ 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10% , PoE (802.3af)
Power consumption	max. 7.5W -Z: max. 12W
Weather proof rating	IP66
IR range	Approx. 20 to 30 meters
Dimensions	98 × 88.58 × 328.79 mm (3.86" × 3.49" × 12.94")
Weight	1700 g (3.75 lbs)

## Available models

DS-2CD8233F-EI, DS-2CD8233F-EIZ

\* "Z": Motorized VF lens

\* DS-2CD8233F-E without IR feature is also available

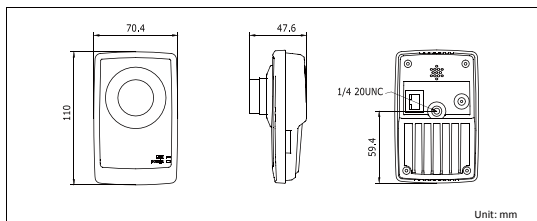
# DS-2CD8153F-E(W) 2MP Network Cube Camera



## Key features

- 1/3" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Up to 2 megapixel resolution
- HD 720P real time video
- Day / night auto switch
- Wi-Fi optional

## Dimensions



## Specifications

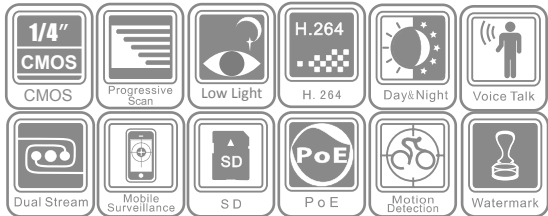
DS-2CD8153F-E(W)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.5 lux@F1.2, AGC on, 0.1 lux@F1.2, AGC on, sens-up x 5 1.1 lux@F1.8, AGC on, 0.2 lux@F1.8, AGC on, sens-up x 5
Shutter time	1/25s ~ 1/100,000s
Lens	4 mm @F1.8, Angle of view: 71°
Lens mount	M12
Day & night	Electronic
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1600 x 1200
Frame rate	50 Hz: 12.5 fps (1600 x 1200), 12.5 fps (1600 x 912), 25 fps (1280 x 960), 25 fps (1280 x 720) 60 Hz: 15 fps (1600 x 1200), 15 fps (1600 x 912), 25 fps (1280 x 960), 30 fps (1280 x 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio	Internal microphone and speaker
Communication interface	1 RJ45 10M / 100M ethernet port
Local storage	Built-in Micro SD slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	5 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4W -W: max. 5.5W
Dimensions	70.4 × 110 × 47.6mm (2.77" × 4.33" × 1.87")
Weight	250g (0.55 lbs)

## Available models

DS-2CD8153F-E, DS-2CD8153F-EW

\* "-W" : Wi-Fi (802.11g/b/n)

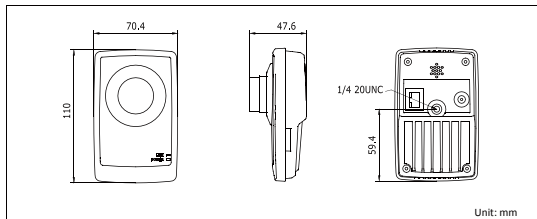
# DS-2CD8133F-E(W) VGA Network Cube Camera



## Key features

- 1/4" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Super low light
- Day / night auto switch
- Wifi optional

## Dimensions



## Specifications

DS-2CD8133F-E(W)	
<b>Camera</b>	
Image sensor	1/4" progressive scan CMOS
Min. illumination	0.01 lux@F1.2, AGC on 0.02 lux@F1.8, AGC on
Shutter time	1/25s ~ 1/100,000s
Lens	4 mm @F1.8, Angle of view: 54.9°
Lens mount	M12
Day & night	Electronic
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 8 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	640 × 480
Frame rate	50 Hz: 25 fps (640 × 480) 60 Hz: 30 fps (640 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTSP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio	Internal Microphone and Speaker
Communication Interface	1 RJ45 10 M/100 M Ethernet port
Local Storage	Built-in Micro SD slot, up to 32 GB
Reset Button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	5 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4W -W: max. 5.5W
Dimensions	110 × 70 × 33mm (4.33" × 2.76" × 1.30")
Weight	250g (0.55 lbs)

## Available models

DS-2CD8133F-E, DS-2CD8133F-EW

\* -W: Wi-Fi (802.11g/b/n)



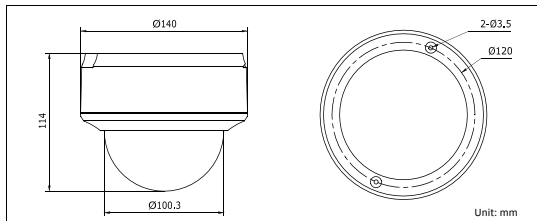
# DS-2CD783F-E(I) 5MP Network Dome Camera



## Key features

- 1/2.5" progressive scan CMOS
- Vari-focal lens
- Up to 5 megapixel (2560 x 1920) high resolution
- Full HD 1080P real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

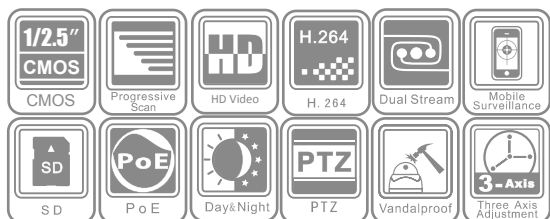
DS-2CD783F-E(I)		
<b>Camera</b>		
Image sensor	1/2.5" progressive scan CMOS	
Min. illumination	0.6 lux@F1.2, AGC on, 0 lux with IR 0.7 lux@F1.6, AGC on, 0 lux with IR	
Shutter time	1/25s ~ 1/100,000s	
Lens	3.5 ~ 9 mm @F1.6, Angle of view: 70° ~ 30°	
Lens mount	Φ17.5	
Auto iris	DC drive	
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°	
Day & night	Electronic (-I: IR cut filter with auto switch)	
<b>Compression Standard</b>		
Video compression	H.264 / MPEG4 / MJPEG	
Bit rate	32 Kbps ~ 16 Mbps	
Audio compression	G.711	
Dual stream	Yes	
<b>Image</b>		
Max. image resolution	2560 × 1920	
Frame rate	50 Hz: 6.25 fps (2560 × 1920) 12.5 fps (2048 × 1536) 25 fps (1920 × 1080) 25 fps (1600 × 1200) 25 fps (1280 × 720)	
	60 Hz: 7.5 fps (2560 × 1920) 15 fps (2048 × 1536) 30 fps (1920 × 1080) 30 fps (1600 × 1200) 30 fps (1280 × 720)	
	Image settings	Saturation, brightness, contrast adjustable through client software or web browser
	<b>Network</b>	
Network storage	NAS (iSCSI optional)	
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception	
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)	
Security	User authentication, watermark	
System compatibility	ONVIF, PSIA, CGI	
<b>Interface</b>		
Audio input	1-ch microphone input, 3.5 mm mini-jack	
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)	
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface	
Alarm input	2	
Alarm output	2	
Video output	1 Vp-p composite output (75 Ω / RCA)	
Local storage	Built-in SD/SDHC slot, up to 32 GB	
Reset button	Yes	
<b>General</b>		
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F), humidity 90% or less (non-condensing)	
Power supply	12 VDC ± 10%, PoE (802.3af)	
Power consumption	max. 5.5W -I: max. 7W (max. 10W with IR cut filter on)	
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10	
IR range	-I: approx. 10 ~ 20m	
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")	
Weight	1400g (3.09 lbs)	

## Available models

DS-2CD783F-E, DS-2CD783F-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

# DS-2CD754FWD-E(I) 2MP WDR Network Dome Camera



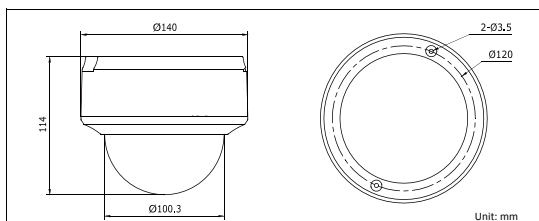
## Specifications

DS-2CD754FWD-E(I)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.1 lux@F1.2, AGC on, 0 lux with IR
Shutter time	1/25s ~ 1/100,000s
Lens	2.7 ~ 9 mm @F1.6, Angle of view: 101° ~ 30.4°
Lens mount	Φ14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
Wide dynamic range	120dB
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1920 × 1080
Frame rate	50 Hz: 25 fps (1920 × 1080) 25 fps (1280 × 720) 60 Hz: 30 fps (1920 × 1080) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS ( iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75 Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 5.5W -I: max. 7W (max. 10W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx 10 to 20 meters
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

## Key features

- 1/2.5" progressive scan CMOS
- 120dB wide dynamic range
- Up to 2 megapixel (1920 x 1080) resolution
- Full HD 1080P real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



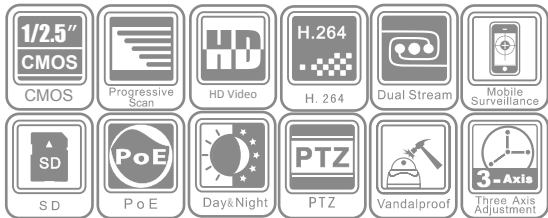
DS-1229ZJ  
(Vandal-proof wall mount)

## Available models

DS-2CD754FWD-E, DS-2CD754FWD-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

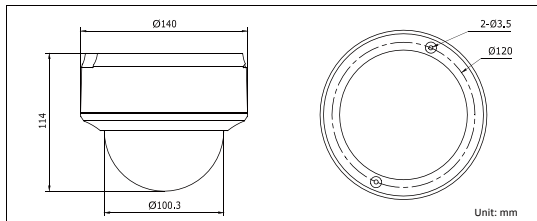
# DS-2CD754F-E(I) 3MP Network Dome Camera



## Key features

- 1/2.5" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Up to 3 megapixel (2048 x 1536) resolution
- Full HD 1080P real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

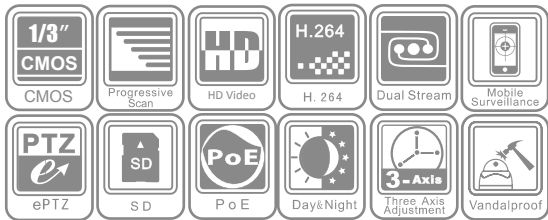
DS-2CD754F-E(I)	
<b>Camera</b>	
Image sensor	1/2.5" progressive scan CMOS
Min. illumination	0.6 lux@F1.2, AGC on, 0 lux with IR 0.7 lux@F1.6, AGC on, 0 lux with IR
Shutter time	1/25s ~ 1/100,000s
Lens	2.7 ~ 9 mm @F1.6, Angle of view: 101° ~ 30.4°
Lens mount	Φ14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	2048 × 1536
Frame rate	50 Hz: 12.5 fps (2048 × 1536) 25 fps (1920 × 1080) 25 fps (1600 × 1200) 60 Hz: 15 fps (2048 × 1536) 30 fps (1920 × 1080) 30 fps (1600 × 1200)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS ( iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75 Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 5.5W -I: max. 7W (max. 7.5W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx 10 to 20 meters
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

## Available models

DS-2CD754F-E, DS-2CD754F-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

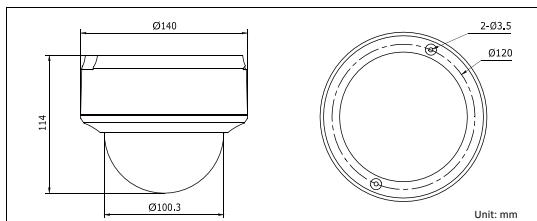
# DS-2CD753F-E(I) 2MP Network Dome Camera



## Key features

- 1/3" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Up to 2 megapixel (1600 x 1200) resolution
- HD 720P real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

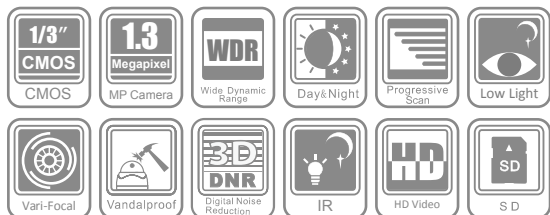
## Specifications

DS-2CD753F-E(I)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.5 lux@F1.2, AGC on, 0.1 lux@F1.2, AGC on, sens-up × 5, 0 lux with IR on
Shutter time	1/25s ~ 1/100,000s
Lens	2.7 ~ 9 mm @F1.2, Angle of view: 101° ~ 30.4°
Lens mount	Φ14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1600 x 1200
Frame rate	50 Hz: 12.5 fps (1600 × 1200) 12.5 fps (1600 × 912) 25 fps (1280 × 960) 25 fps (1280 × 720) 60 Hz: 15 fps (1600 × 1200) 15 fps (1600 × 912) 25 fps (1280 × 960) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS ( iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75 Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4.5W max. -I: max. 6W (max. 6.5W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx. 10 ~ 20m
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

## Available models

DS-2CD753F-E, DS-2CD753F-EI

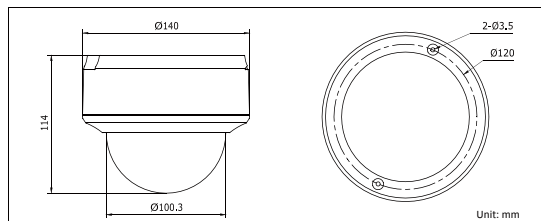
\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range



## Key features

- 1.3 mega-pixel (1280 x 960) high resolution
- 1/3" progressive scan CMOS
- 120dB wide dynamic range
- HD720p real-time recording
- 3D digital noise reduction
- Super low light
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

DS-2CD764FWD-E(I)	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.01 Lux @F1.2,AGC ON -I: 0.01 Lux @F1.2,AGC ON, 0 Lux with IR
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens	2.7 ~ 9mm @ F1.2, Angle of view: 101° ~ 30.4°
Lens mount	Φ14
Auto iris	DC drive
Angle Adjustment	Pan: 0° ~ 360°, Tilt: 0° ~ 75°, Rotation: 0° ~ 360°
Day & Night	Electronic (-I: IR cut filter with auto switch)
Wide dynamic range	120 dB
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1280 x 960
Frame rate	50Hz: 25fps (1280 x 960), 25fps (1280 x 720) 60Hz: 30fps (1280 x 960), 30fps (1280 x 720)
Image settings	Saturation, Brightness, Contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, FTP, SIP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet interface, 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 5.5W -I: max. 7W (max. 7.5W with IR cut filter on)
Impact Protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR Range	-I: approx 10 to 20 meters
Dimensions	Φ140 × 114 mm (Φ5.51" × 4.49")
Weight	1400 g (3.09 lbs)

## Available models

DS-2CD764FWD-E, DS-2CD764FWD-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

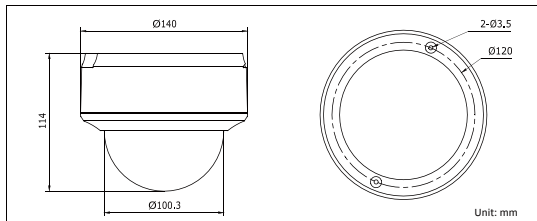
# DS-2CD763P(N)F-E(I) 1.3MP Network Dome Camera



## Key features

- 1/3" Sony progressive scan CCD
- H.264 / MPEG4 / MJPEG video compression
- Up to 1.3 megapixel (1280 x 960) resolution
- HD720P real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

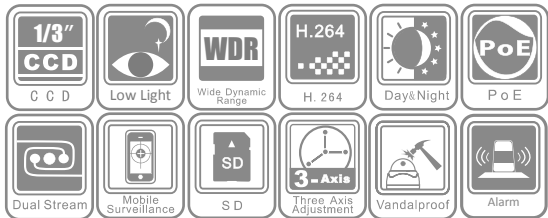
DS-2CD763PF-E(I) / DS-2CD763NF-E(I)	
<b>Camera</b>	
Image sensor	1/3" Sony progressive scan CCD
Signal system	PAL / NTSC
Min. illumination	0.1 lux@F1.2, AGC on -I: 0.1 lux@F1.2, AGC on, 0 lux with IR
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens	2.7 ~ 9 mm @F1.2, Angle of view: 101° ~ 30.4°
Lens mount	Φ14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1280 x 960
Frame rate	50 Hz: 12.5 fps (1280 × 960) 25 fps (1280 × 720) 60 Hz: 15 fps (1280 × 960) 30 fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75 Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 7.5W -I: max. 9W (max. 9.5W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx. 10 ~ 20m
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

## Available models

DS-2CD763PF-E, DS-2CD763NF-E, DS-2CD763PF-EI, DS-2CD763NF-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

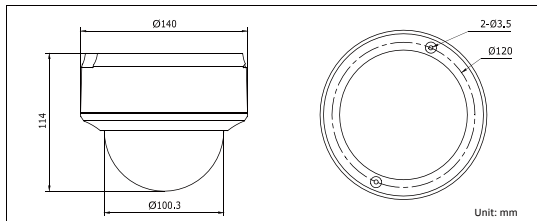
# DS-2CD793P(N)FWD-E(I) 4CIF WDR Network Dome Camera



## Key features

- 1/3" Sony vertical double density interline CCD
- H.264 / MPEG4 / MJPEG video compression
- 160x wide dynamic range
- 4CIF real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

DS-2CD793PFWD-E(I) / DS-2CD793NFWD-E(I)	
<b>Camera</b>	
Image sensor	1/3" Sony vertical double density interline CCD
Signal system	PAL / NTSC
Min. illumination	0.1 lux@F1.2, AGC on, 0 lux with IR 0.14 lux@F1.4, AGC on, 0 lux with IR
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens	2.8 ~ 11 mm @F1.4, Angle of view: 97° ~ 24°
Lens mount	Φ 14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
Wide dynamic range	160x
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps – 8 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	PAL: 704 × 576, NTSC: 704 × 480
Frame rate	50 Hz: 25 fps (704 × 576) 60 Hz: 30 fps (704 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS ( iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect , IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch, 3.5mm jack, Line IN/MIC IN
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75 Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10% , PoE (802.3af)
Power consumption	max. 6W -I: max. 7.5W (max. 10.5W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx. 10 ~ 20m
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

## Available models

DS-2CD793PFWD-E, DS-2CD793NFWD-E, DS-2CD793PFWD-EI, DS-2CD793NFWD-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

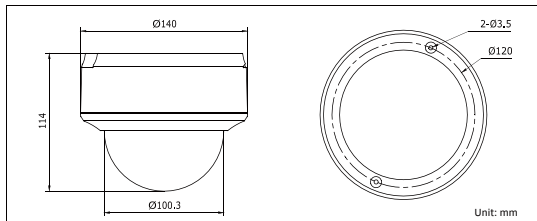
# DS-2CD793P(N)F-E(I) 4CIF Network Dome Camera



## Key features

- High performance 1/3" Sony CCD
- H.264 / MPEG4 / MJPEG video compression
- Super low illumination
- 4CIF real time video
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

DS-2CD793PF-E(I) / DS-2CD793NF-E(I)	
<b>Camera</b>	
Image sensor	1/3" Sony CCD
Signal system	PAL / NTSC
Min. illumination	0.02 lux@F1.2, AGC on, 0 lux with IR 0.027 lux@F1.4, AGC on, 0 lux with IR
Shutter time	1/25 (1/30)s ~ 1/100,000s
Lens	2.8 ~ 11 mm @F1.4, Angle of view: 97° ~ 24°
Lens mount	Φ 14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 8 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	PAL: 704 × 576, NTSC: 704 × 480
Frame rate	50 Hz: 25 fps (704 × 576) 60 Hz: 30 fps (704 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch, 3.5mm jack, Line IN/MIC IN
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75 Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10% , PoE (802.3af)
Power consumption	max. 6W -I: max. 7.5W (max. 10.5W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx. 10 ~ 20m
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

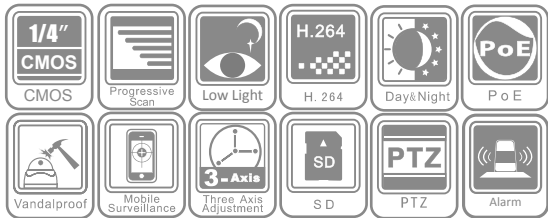
## Available models

DS-2CD793PF-E, DS-2CD793NF-E, DS-2CD793PF-EI, DS-2CD793NF-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range



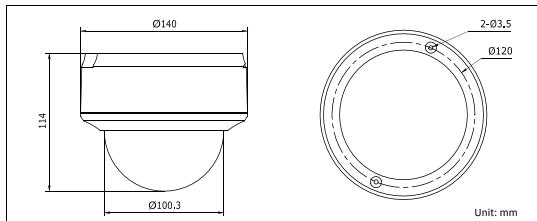
# DS-2CD733F-E(I) VGA Network Dome Camera



## Key features

- 1/4" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Super low light
- Day / night auto switch
- 20M IR LED optional
- Vandal-proof housing

## Dimensions



## Accessories



DS-1227ZJ  
(Indoor in-ceiling mount)



DS-1229ZJ  
(Vandal-proof wall mount)

## Specifications

DS-2CD733F-E(I)	
<b>Camera</b>	
Image sensor	1/4" progressive scan CMOS
Min. illumination	0.01 lux@F1.2, AGC on, 0 lux with IR 0.014 lux@F1.4, AGC on, 0 lux with IR
Shutter time	1/25s ~ 1/100,000s
Lens	2.8 ~ 11 mm @F1.4 , Angle of view: 70° ~ 18°
Lens mount	Φ14
Auto iris	DC drive
Angle adjustment	Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
Day & night	Electronic (-I: IR cut filter with auto switch)
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 8 Mbps
Audio compression	G.711
Dual stream	Yes
<b>Image</b>	
Max. image resolution	640 × 480
Frame rate	50 Hz: 25 fps (640 × 480) 60 Hz: 30 fps (640 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Audio input	1-ch microphone input, 3.5 mm mini-jack
Audio output	1-ch 3.5 mm audio interface (line level, 600 Ω)
Communication interface	1 RJ45 10M / 100M ethernet port and 1 RS-485 interface
Alarm input	2
Alarm output	2
Video output	1 Vp-p composite output (75Ω / RCA)
Local storage	Built-in SD/SDHC slot, up to 32 GB
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4.5W -I: max. 6W (max. 9W with IR cut filter on)
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
IR range	-I: approx. 10 ~ 20m
Dimensions	Φ 140 × 114 mm (Φ 5.51" × 4.49")
Weight	1400g (3.09 lbs)

## Available Models

DS-2CD733F-E, DS-2CD733F-EI

\* "I" series supports 10-20 meters (32.8-65.6ft) IR Range

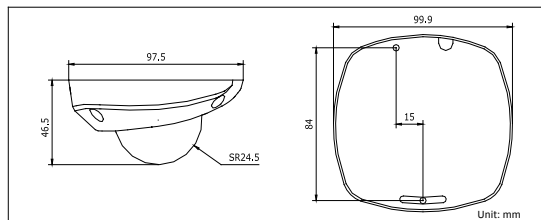
# DS-2CD7153-E 2MP Network Mini Dome Camera



## Key features

- 1/3" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Up to 2 megapixel resolution
- HD 720P real time video
- Day / night auto switch
- Vandal-proof housing
- IP66 rating

## Dimensions



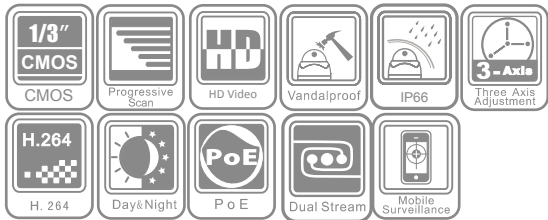
## Specifications

DS-2CD7153-E	
<b>Camera</b>	
Image sensor	1/3" progressive scan CMOS
Min. illumination	0.5 lux@F1.2, AGC on, 0.1 lux@F1.2, AGC on, sens-up x 5 1.1 lux@F1.8, AGC on, 0.2 lux@F1.8, AGC on, sens-up x 5
Shutter time	1/25s ~ 1/100,000s
Lens	4mm @F1.8 (2.8, 6, 8mm optional), Angle of view: 71°
Lens mount	M12
Angle adjustment	Pan: ± 15°, tilt: 0 ~ 90°, rotation: ± 15°
Day & night	Electronic
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1600 x 1200
Frame rate	50 Hz: 12.5 fps (1600 x 1200) 12.5 fps (1600 x 912) 25 fps (1280 x 960) 25 fps (1280 x 720) 60 Hz: 15 fps (1600 x 1200) 15 fps (1600 x 912) 25 fps (1280 x 960) 30 fps (1280 x 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User authentication, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Communication interface	1 RJ45 10M / 100M ethernet port
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4W
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
Weather-proof rating	IP66
Dimensions	99.9 x 97.5 x 46.5 mm (3.93" x 3.84" x 1.83")
Weight	250g (0.55 lbs)

## Available models

DS-2CD7153-E

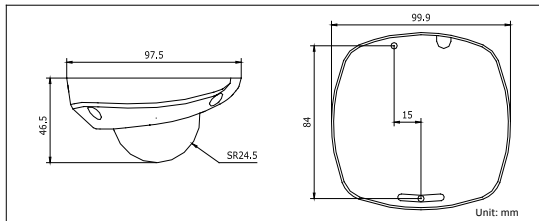
# DS-2CD7164-E 1.3 MP Network Mini Dome Camera



## Key features

- 1/3" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Up to 1.3 megapixel resolution
- HD 720P real time video
- Day / night auto switch
- Vandal-proof housing
- IP66 rating

## Dimensions



## Specifications

DS-2CD7164-E	
<b>Camera</b>	
Image sensor	1/3" Progressive Scan CMOS
Min. illumination	0.01 lux @F1.2, AGC ON, 0.02 lux @F1.8, AGC ON
Shutter time	1/25s ~ 1/100,000s
Lens	4mm @F2.0 (2.8, 6, 8mm optional), Angle of view: 71°
Lens mount	M12
Angle adjustment	Pan: ± 15°, tilt: 0 ~ 90°, rotation: ± 15°
Day & night	Electronic
<b>Compression standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 16 Mbps
Dual stream	Yes
<b>Image</b>	
Max. image resolution	1280 × 960
Frame rate	50Hz: 25fps (1280 × 960), 25fps (1280 × 720) 60Hz: 30fps (1280 × 960), 30fps (1280 × 720)
Image settings	Saturation, brightness, contrast adjustable by client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	User Authentication, Watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Communication interface	1 RJ45 10M / 100M ethernet port
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4 W
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
Weather-proof rating	IP66
Dimensions	99.9 × 97.5 × 46.5 mm (3.93" × 3.84" × 1.83")
Weight	250g (0.55 lbs)

## Available models

DS-2CD7164-E

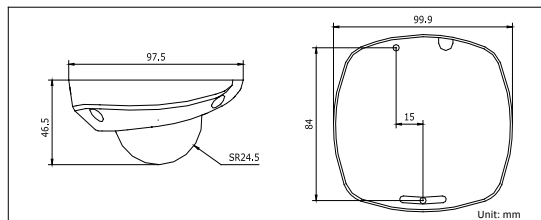
# DS-2CD7133-E VGA Network Mini Dome Camera



## Key features

- 1/4" progressive scan CMOS
- H.264 / MPEG4 / MJPEG video compression
- Super low illumination
- Day / night auto switch
- Vandal-proof housing
- IP66 rating
- 3-axis adjustment

## Dimensions



## Specifications

DS-2CD7133-E	
<b>Camera</b>	
Image sensor	1/4" progressive scan CMOS
Min. illumination	0.01 lux@F1.2, AGC on, 0.02 lux@F1.8, AGC on
Shutter time	1/25s ~ 1/100,000s
Lens	4 mm @F1.8 (2.8, 6, 8mm optional), Angle of view: 54.9°
Lens mount	M12
Angle adjustment	Pan: ± 15°, tilt: 0 ~ 90°, rotation: ± 15°
Day & night	Electronic
<b>Compression Standard</b>	
Video compression	H.264 / MPEG4 / MJPEG
Bit rate	32 Kbps ~ 8 Mbps
Dual stream	Yes
<b>Image</b>	
Max. image resolution	640 × 480
Frame rate	50 Hz: 25 fps (640 × 480) 60 Hz: 30 fps (640 × 480)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
<b>Network</b>	
Network storage	NAS (iSCSI optional)
Alarm trigger	Motion detection
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP (SNMP, HTTPS, SIP, FTP, SRTP, 802.1x, IPv6 optional)
Security	Password protection, watermark
System compatibility	ONVIF, PSIA, CGI
<b>Interface</b>	
Communication interface	1 RJ45 10M / 100M ethernet port
Reset button	Yes
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	max. 4W
Impact protection	IEC60068-275Eh, 50J; EN50102, up to IK10
Weather-proof rating	IP66
Dimensions	99.9 × 97.5 × 46.5 mm (3.93" × 3.84" × 1.83")
Weight	250g (0.55 lbs)

## Available Models

DS-2CD7133-E

# ANALOG CAMERA



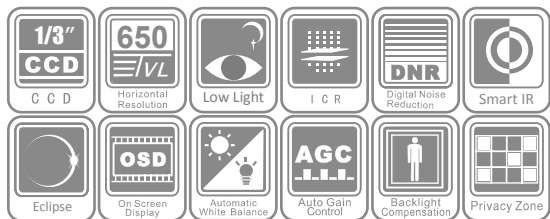
# Analog Camera Selection Chart

	Type	Indoor/ Outdoor	Horizontal Resolution	Image Sensor	Lens	Day/Night	IR	IR Distance	Vandal proof	Low Light	WDR	Digital WDR	3D DNR	DNR	EIS	Smart IR	Page
DS-2CC1112P(N)(-A)	Box	Indoor	480 TVL	CCD	CS Mount	Electronic						√		√			P.64
DS-2CC1172P(N)(-A)	Box	Indoor	540 TVL	CCD	CS Mount	Electronic						√		√			P.64
DS-2CC1192P(N)(-A)	Box	Indoor	650 TVL	CCD	CS Mount	Electronic						√		√			P.64
DS-2CC1191P-A	Box	Indoor	650 TVL	CCD	CS Mount	ICR						√		√		√	P.63
DS-2CC1193P(N)-A	Box	Indoor	650 TVL	CCD	CS Mount	ICR						√	√		√	√	P.66
DS-2CC1195P(N)-A	Box	Indoor	650 TVL	CCD	CS Mount	ICR				√		√	√		√	√	P.66
DS-2CC1197P(N)-A	Box	Indoor	650 TVL	CCD	CS Mount	ICR				√	√		√		√	√	P.66
DS-2CC1198P(N)-A	Box	Indoor	650 TVL	CCD	CS Mount	ICR				√		√	√		√		P.67
DS-2CZ2132P(N)	Zoom	Indoor	540 TVL	CCD	Varifocal	Electronic							√				P.87
DS-2CZ2152P(N)	Zoom	Indoor	540 TVL	CCD	Varifocal	ICR							√				P.88
DS-2CZ2182P(N)	Zoom	Indoor	540 TVL	CCD	Varifocal	ICR							√				P.89
DS-2CZ2192P(N)	Zoom	Indoor	540 TVL	CCD	Varifocal	ICR							√				P.90
DS-2CC5102P(N)	Dome	Indoor	420 TVL	CCD	Fixed	Electronic											P.68
DS-2CC5112P(N)	Dome	Indoor	480 TVL	CCD	Fixed	Electronic											P.68
DS-2CC5172P(N)	Dome	Indoor	540 TVL	CCD	Fixed	Electronic											P.68
DS-2CC5192P(N)	Dome	Indoor	650 TVL	CCD	Fixed	Electronic											P.68
DS-2CC5191P(N)-VF	Dome	Indoor	650 TVL	CCD	Varifocal	ICR						√		√		√	P.69
DS-2CC5193P(N)-VF	Dome	Indoor	650 TVL	CCD	Varifocal	ICR						√	√		√	√	P.69
DS-2CC5195P(N)-VF	Dome	Indoor	650 TVL	CCD	Varifocal	ICR				√		√	√		√	√	P.69
DS-2CC5197P(N)-VF	Dome	Indoor	650 TVL	CCD	Varifocal	ICR				√	√		√		√	√	P.69
DS-2CC5173P(N)-VP(H)	Dome	Outdoor	560 TVL	CCD	Varifocal	ICR			√			√	√			√	P.70
DS-2CC1192P(N)-IR1	Bullet	Outdoor	650 TVL	CCD	Fixed	Electronic	√	20m									P.76
DS-2CC102P(N)-IR3	Bullet	Outdoor	420 TVL	CCD	Fixed	Electronic	√	40m									P.73
DS-2CC112P(N)-IR3	Bullet	Outdoor	480 TVL	CCD	Fixed	Electronic	√	40m									P.73
DS-2CC192P(N)-IR3	Bullet	Outdoor	540 TVL	CCD	Fixed	Electronic	√	40m									P.73
DS-2CC1192P(N)-IR3	Bullet	Outdoor	650 TVL	CCD	Fixed	Electronic	√	40m									P.76
DS-2CC102P(N)-IR5	Bullet	Outdoor	420 TVL	CCD	Fixed	Electronic	√	60m									P.73
DS-2CC112P(N)-IR5	Bullet	Outdoor	480 TVL	CCD	Fixed	Electronic	√	60m									P.73
DS-2CC192P(N)-IR5	Bullet	Outdoor	540 TVL	CCD	Fixed	Electronic	√	60m									P.73
DS-2CC1192P(N)-IR5	Bullet	Outdoor	650 TVL	CCD	Fixed	Electronic	√	60m									P.76
DS-2CC102P(N)-IRA	Bullet	Outdoor	420 TVL	CCD	Fixed	Electronic	√	110m									P.74

# Analog Camera Selection Chart

	Type	Indoor/ Outdoor	Horizontal Resolution	Image Sensor	Lens	Day/Night	IR	IR Distance	Vandal proof	Low Light	WDR	Digital WDR	3D DNR	DNR	EIS	Smart IR	Page
DS-2CC112P(N)-IRA	Bullet	Outdoor	480 TVL	CCD	Fixed	Electronic	√	110m									P.74
DS-2CC192P(N)-IRA	Bullet	Outdoor	540 TVL	CCD	Fixed	Electronic	√	110m									P.74
DS-2CC1192P(N)-IRA	Bullet	Outdoor	650 TVL	CCD	Fixed	Electronic	√	110m									P.76
DS-2CC102P(N)-IRT	Bullet	Outdoor	420 TVL	CCD	Varifocal	Electronic	√	40m									P.75
DS-2CC112P(N)-IRT	Bullet	Outdoor	480 TVL	CCD	Varifocal	Electronic	√	40m									P.75
DS-2CC192P(N)-IRT	Bullet	Outdoor	540 TVL	CCD	Varifocal	Electronic	√	40m									P.75
DS-2CC1173P(N)-VFIR	Bullet	Outdoor	560 TVL	CCD	Varifocal	ICR	√	30m				√	√			√	P.77
DS-2CC1191P(N)-VFIR	Bullet	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m				√		√		√	P.78
DS-2CC1195P-VFIR	Bullet	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m		√		√	√		√	√	P.78
DS-2CC1197P-VFIR	Bullet	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m			√		√		√	√	P.78
DS-2CC5173P(N)-VPIR(H)	Dome	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m	√			√	√			√	P.70
DS-2CC5191P-VPIR(H)	Dome	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m	√			√		√		√	P.71
DS-2CC5195P-VPIR(H)	Dome	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m	√	√		√	√		√	√	P.71
DS-2CC5197P-VPIR(H)	Dome	Outdoor	650 TVL	CCD	Varifocal	ICR	√	30m	√		√		√		√	√	P.71
DS-2CC502P(N)-IR	Dome	Outdoor	420 TVL	CCD	Fixed	Electronic	√	20m									P.80
DS-2CC512P(N)-IR	Dome	Outdoor	480 TVL	CCD	Fixed	Electronic	√	20m									P.80
DS-2CC592P(N)-IR	Dome	Outdoor	540 TVL	CCD	Fixed	Electronic	√	20m									P.80
DS-2CC5192P(N)-IR1	Dome	Outdoor	650 TVL	CCD	Fixed	Electronic	√	20m									P.79
DS-2CC502P(N)-IR3	Dome	Outdoor	420 TVL	CCD	Fixed	Electronic	√	40m									P.80
DS-2CC512P(N)-IR3	Dome	Outdoor	480 TVL	CCD	Fixed	Electronic	√	40m									P.80
DS-2CC592P(N)-IR3	Dome	Outdoor	540 TVL	CCD	Fixed	Electronic	√	40m									P.80
DS-2CC5192P(N)-IR3	Dome	Outdoor	650 TVL	CCD	Fixed	Electronic	√	40m									P.79
DS-2CE5512P(N)	Dome	Indoor	500 TVL	DIS	Fixed	Electronic											P.81
DS-2CE1512P(N)-IR	Bullet	Outdoor	500 TVL	DIS	Fixed	ICR	√	20m									P.84
DS-2CE5512P(N)-IRP	Dome	Indoor	500 TVL	DIS	Fixed	ICR	√	20m									P.82
DS-2CE5512P(N)-IR	Dome	Outdoor	500 TVL	DIS	Fixed	ICR	√	20m									P.83
DS-2CE1582P(N)-IR1	Bullet	Outdoor	600 TVL	DIS	Fixed	ICR	√	20m									P.85
DS-2CE1582P(N)-IR3	Bullet	Outdoor	600 TVL	DIS	Fixed	ICR	√	40m									P.85
DS-2CE5582P(N)-IR1	Dome	Outdoor	600 TVL	DIS	Fixed	ICR	√	20m									P.86
DS-2CE5582P(N)-IR3	Dome	Outdoor	600 TVL	DIS	Fixed	ICR	√	40m									P.86

# DS-2CC1191P-A 650TVL Box Camera



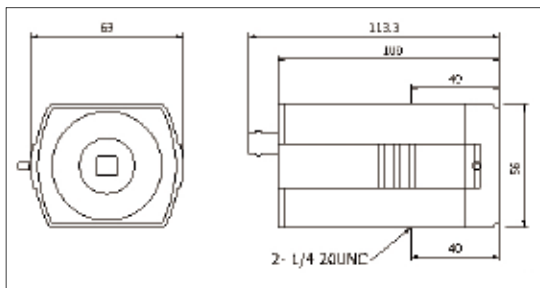
## Key features

- 1/3" Sony Exview HAD CCD II
- 650 TVL high resolution
- Super low illumination
- True day / night
- Smart IR
- Digital wide dynamic range

## Specifications

DS-2CC1191P-A	
<b>Camera</b>	
Image sensor	1/3" Sony Exview HAD CCD II
Signal system	PAL
Effective pixels	976 (H) × 582 (V)
Min. illumination	Color: 0.001 lux@F1.2, AGC on B/W: 0.0001 lux@F1.2, AGC on
Shutter time	1/50s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC/Video drive
Day & night	IR cut filter with auto switch
Horizontal resolution	Color: 650 TVL, B/W: 700 TVL
Synchronization	Internal / Power synchronization
Video output	1Vp-p composite output (75 Ω / BNC)
S/N ratio	More than 62dB
<b>Menu</b>	
Camera ID	On / off (16 letters, adjusted position)
Auto gain control	Low / middle / high / off
D/N mode	Auto1 / auto2 / day / night
White balance	Auto trace WB1 / auto trace WB2 / manual / auto Control
Private mask	On / off, maximum 8 zones
Motion detection	Mode 1 / mode 2 / off
BLC	Area / value / off
RS-485	Address / protocol / baud rate
Language	English / Chinese
Function	SMART IR, digital WDR, Eclipse, digital noise reduction, sharpness, brightness, saturation, resolution, mirror, defect pixel correction
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	24 VAC ± 10%, 12 VDC ± 10%
Power consumption	5W max. (10W max. with IR cut filter on)
Dimensions	69 x 56 x 113.3 mm (2.72" × 2.20" × 4.46")
Weight	400g (0.88 lbs)

## Dimensions



## Available models

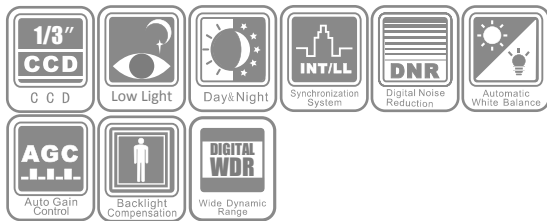
DS-2CC1191P-A

## Accessories





# DS-2CC1112/1172/1192P(N)(-A) Box Camera



## Key features

- 1/3" Sony CCD
- Low illumination
- Digital wide dynamic range
- Digital noise reduction
- Day / night auto switch

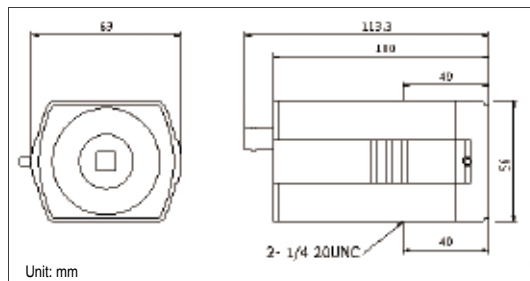
## Specifications

	DS-2CC1112P(N)(-A)	DS-2CC1172P(N)(-A)	DS-2CC1192P(N)(-A)
<b>Camera</b>			
Image sensor	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Exview HAD CCD II
Signal system	PAL/NTSC		
Effective pixels	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 976 (H) × 582 (V) NTSC: 976 (H) × 494 (V)
Min. illumination	0.1 Lux @ F1.2, AGC ON	0.1 Lux @ F1.2, AGC ON	0.001 Lux @ F1.2, AGC ON
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s		
Lens mount	C/CS mount		
Auto iris	DC/Video drive		
Day & night	Electronic		
Horizontal resolution	480 TVL	540 TVL	650 TVL
Synchronization	Internal synchronization (-A series support Internal/Power synchronization)		
Video output	1Vp-p composite output (75 Ω / BNC)		
S/N ratio	More than 52dB	More than 52dB	More than 62 dB
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)		
Power supply	12 VDC ± 10% (-A series support 24 VAC ± 10%, 12 VDC ± 10%)		
Power consumption	2W max. (-A series: 3W max.)		
Dimensions	69 x 56 x 113.3 mm (2.72" × 2.20" × 4.46")		
Weight	400g (0.88 lbs)		

## Available models

DS-2CC1112P, DS-2CC1112N, DS-2CC1112P-A, DS-2CC1112N-A  
 DS-2CC1172P, DS-2CC1172N, DS-2CC1172P-A, DS-2CC1172N-A  
 DS-2CC1192P, DS-2CC1192N, DS-2CC1192P-A, DS-2CC1192N-A

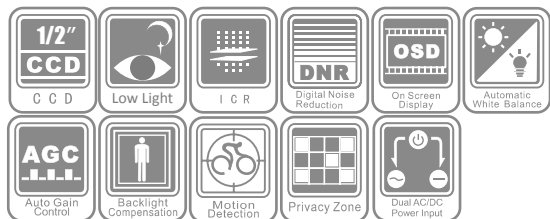
## Dimensions



## Accessories



# DS-2CC176P-A(-C) 540TVL HLC Box Camera



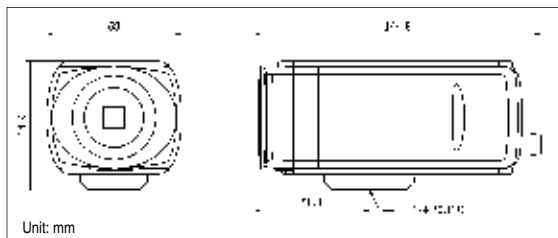
## Key features

- 1/2" Sony Exview HAD CCD
- 540 TVL resolution
- Super low illumination
- OSD menu
- Digital noise reduction
- True day / night
- Highlight compensation

## Specifications

DS-2CC176P-A(-C)	
<b>Camera</b>	
Image sensor	1/2" Sony Exview HAD CCD
Signal system	PAL
Effective pixels	752 (H) × 582 (V)
Min. illumination	Color: 0.003 lux@F1.2, AGC on, 0.00002 lux@F1.2, AGC on, sens-up × 256 B/W: 0.0003 lux@F1.2, AGC on, 0.000002 lux@F1.2, AGC on, sens-up × 256
Shutter time	1/50s ~ 1/100,000s
Lens mount	C/CS mount
Auto iris	DC/Video drive
Day & night	IR cut filter with auto switch
Horizontal resolution	Color: 540 TVL, B/W: 600 TVL
Synchronization	Internal / Power synchronization
Video output	1Vp-p composite output (75 Ω / BNC)
S/N ratio	More than 50dB
<b>Menu</b>	
Camera ID	On / off (15 letters, adjusted position)
Auto gain control	Low / middle / high / off
D/N mode	Auto1 / auto2 / day / night
Auto white balance	Auto trace WB1 / auto trace WB2 / manual / auto Control
Private mask	On / off, maximum 8 zones
Motion detection	Mode 1 / mode 2 / off
Anti-flicker	On / off
RS-485	Address / protocol / baud Rate
Language	English / Chinese
Video	Gamma correction, digital zoom, digital noise reduction, POS/NEG, mirror, resolution, sharpness, Y, C, defect pixel correction
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	24 VAC ± 10%, 12 VDC ± 10% (-C series support 100 - 240 VAC)
Power consumption	5W (10W max. with IR cut filter on)
Dimensions	68 × 64.9 × 144.8 mm (2.68" × 2.56" × 5.70")
Weight	500g (1.10 lbs)

## Dimensions



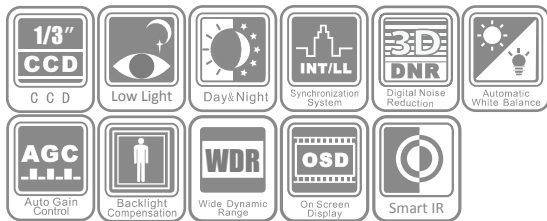
## Available models

DS-2CC176P-A, DS-2CC176P-C

## Accessories



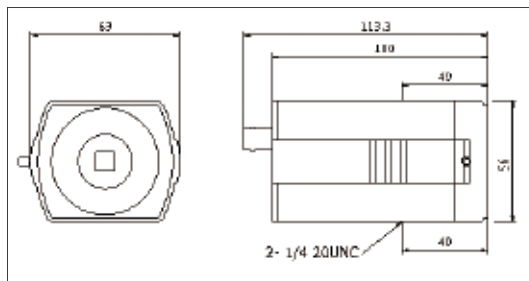
# DS-2CC1193/1195/1197P(N)-A 650TVL Box Camera



## Key features

- 1/3" Sony CCD
- Low illumination
- 650TVL high resolution
- 3D digital noise reduction
- True Day / night
- OSD menu

## Dimensions



## Accessories



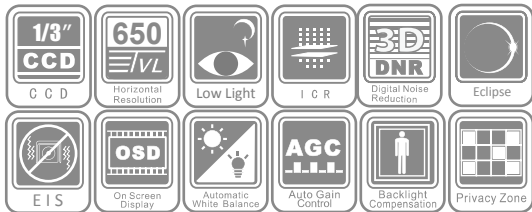
## Specifications

	DS-2CC1193P(N)(-A)	DS-2CC1195(N)(-A)	DS-2CC1197P(N)(-A)
<b>Camera</b>			
Image sensor	1/3" SONY EXView HAD CCD II	1/3" SONY EXView HAD CCD II	1/3" SONY Super HAD CCD II
Signal system	PAL/NTSC		
Effective pixels	PAL: 976 (H) × 582 (V), NTSC: 976 (H) × 494 (V)		
Min. illumination	Color: 0.01 Lux @F1.2, AGC ON, 0.0001 Lux @F1.2, AGC ON, sensitivity × 512 B/W: 0.001 Lux @F1.2, AGC ON, 0.00001 Lux @F1.2, AGC ON, sensitivity × 512	Color: 0.001 Lux @F1.2, AGC ON, 0.0001 Lux @F1.2, AGC ON, sensitivity × 512 B/W: 0.0001 Lux @F1.2, AGC ON, 0.00001 Lux @F1.2, AGC ON, sensitivity × 512	Color: 0.001 Lux @F1.2, AGC ON, 0.0001 Lux @F1.2, AGC ON, sensitivity × 512 B/W: 0.0001 Lux @F1.2, AGC ON, 0.00001 Lux @F1.2, AGC ON, sensitivity × 512
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s		
Lens mount	C/CS mount		
Auto iris	DC/Video drive		
Day & night	IR cut filter with auto switch		
Horizontal resolution	650 TVL (Color), 700 TVL (B/W)		
Synchronization	Internal / Power synchronization		
Video output	1Vp-p composite output (75 Ω/BNC)		
S/N ratio	More than 62 dB		
<b>Menu</b>			
Camera ID	On / Off (16 letters, position adjustable)		
Auto Gain	Low / Middle / High / Off		
D/N Mode	Auto1 / Auto2 / Day / Night		
White Balance	Auto trace WB1 / Auto trace WB2 / Manual / Auto Control		
Private Mask	On / Off, maximum 12 zones		
Motion Detection	Mode 1 / Mode 2 / Off		
BLC	Area / Value / Off		
WDR	Digital	Digital	75 dB
RS-485	Address / Protocol / Baud Rate		
Anti-Flicker	On / Off		
Language	English / Chinese		
Function	SMART IR, Digital Wide Dynamic Range, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction		Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction
Scene	Indoor Standard , Indoor Backlight , Outdoor, Low illumination , IR Standard , Customize		Indoor Standard , Indoor Backlight , Outdoor, Low illumination , Customize
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)		
Power supply	24 V AC ± 10%, 12 V DC ± 10%		
Power consumption	Max. 5 W (Max. 10 W with IR cut filter on)		
Dimensions	69 x 56 x 113.3 mm (2.72" × 2.20" × 4.46")		
Weight	400g (0.88 lbs)		

## Available models

DS-2CC1193P-A, DS-2CC1193N-A, DS-2CC1195P-A, DS-2CC1195N-A, DS-2CC1197P-A, DS-2CC1197N-A

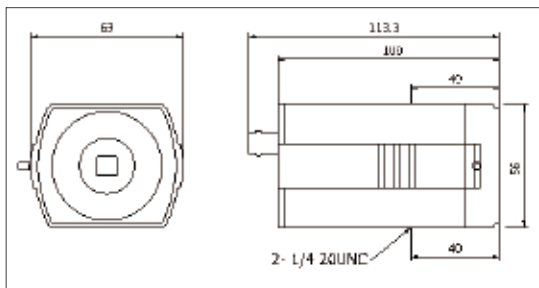
# DS-2CC1198P(N)-A 650TVL Box Camera



## Key features

- 1/3" Sony EXVIEW HAD CCD II
- 650 TVL high resolution
- Super low illumination
- True day / night
- Excessive highlight compensation
- 3D digital noise reduction

## Dimensions



## Accessories



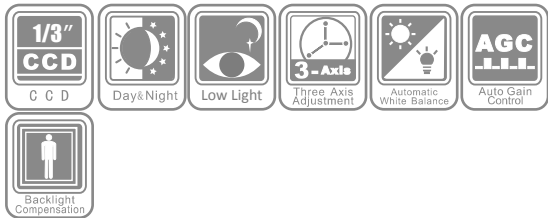
## Specifications

DS-2CC1198P(N)-A	
<b>Camera</b>	
Image sensor	1/3" SONY EXView HAD CCD II
Signal system	PAL / NTSC
Effective pixels	PAL: 976 (H) × 582 (V) NTSC: 976 (H) × 494 (V)
Min. illumination	Color: 0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512) B/W: 0.0001 Lux @ (F1.2, AGC ON), 0.00001 Lux @ (F1.2, AGC ON, sensitivity × 512)
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s
Lens mount	C/CS mount
Auto iris	DC/Video drive
Day & night	IR cut filter with auto switch
Horizontal resolution	Color: 650 TVL, B/W: 700 TVL
Synchronization	Internal / Power synchronization
Video output	1Vp-p composite output (75 Ω / BNC)
S/N ratio	More than 62dB
<b>Menu</b>	
Camera ID	On / off (16 letters, adjusted position)
Auto gain control	Low / middle / high / off
D/N mode	Auto1 / auto2 / day / night
White balance	Auto trace WB1 / auto trace WB2 / manual / auto control
Private mask	On / off, maximum 12 zones
Motion detection	Mode 1 / mode 2 / off
BLC	Area / value / off
HLC	Compensation intensity
RS-485	Address / protocol / baud rate
Anti-flicker	On / off
Language	English / Chinese
Video	Digital WDR, Eclipse, digital noise reduction, sharpness, brightness, saturation, resolution, electronic image stabilization, digital zoom, mirror, defect pixel correction
Scene	Indoor backlight, outdoor backlight
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	24 VAC ± 10%, 12 VDC ± 10%
Power consumption	5W max. (10W max. with IR cut filter on)
Dimensions	69 x 56 x 113.3 mm (2.72" × 2.20" × 4.46")
Weight	400g (0.88 lbs)

## Available models

DS-2CC1198P-A, DS-2CC1198N-A

# DS-2CC5102/5112/5172/5192P(N) Indoor Dome Camera



## Key features

- High performance Sony CCD
- Low illumination
- Day / night auto switch
- 3-axis adjustment
- Compact design

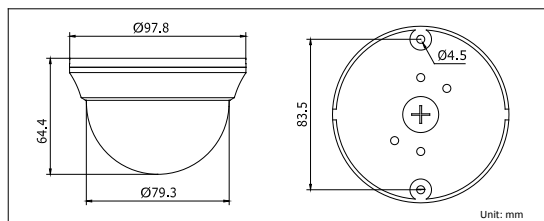
## Specifications

	DS-2CC5102P(N)	DS-2CC5112P(N)	DS-2CC5172P(N)	DS-2CC5192P(N)
<b>Camera</b>				
Image sensor	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY Super HAD CCD II	1/3" SONY EXView HAD CCD II
Signal system	PAL / NTSC			
Effective pixels	PAL: 500 (H) × 582 (V) NTSC: 510 (H) × 492 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 976 (H) × 582 (V) NTSC: 976 (H) × 494 (V)
Min. illumination	0.1 Lux @ (F1.2, AGC ON) 0.28 Lux @ (F2.0, AGC ON)	0.1 Lux @ (F1.2, AGC ON) 0.28 Lux @ (F2.0, AGC ON)	0.1 Lux @ (F1.2, AGC ON) 0.28 Lux @ (F2.0, AGC ON)	0.001 Lux @ (F1.2, AGC ON) 0.0028 Lux @ (F2.0, AGC ON)
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s			
Lens	3.6 mm @ F2.0 (2.8 mm, 6 mm, 8 mm, 12 mm, 16 mm optional) Angle of view: 78° (3.6 mm)			
Lens mount	M12			
Angle adjustment	Pan: 0 ~ 355°, tilt: 0 ~ 90°, rotation: 0 ~ 355°			
Day & night	Electronic			
Horizontal resolution	420 TVL	480 TVL	540 TVL	650 TVL
Synchronization	Internal synchronization			
Video output	1Vp-p composite output (75 Ω / BNC); Test monitor out [1Vp-p composite output (75 Ω / BNC), device line]			
S/N ratio	More than 50dB	More than 52 dB	More than 52 dB	More than 62 dB
<b>General</b>				
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)			
Power supply	12 VDC ± 10%			
Power consumption	2W max.			
Dimensions	Φ 97.8 x 64.4 mm (φ 3.85" x 2.54")			
Weight	300g (0.66 lbs)			

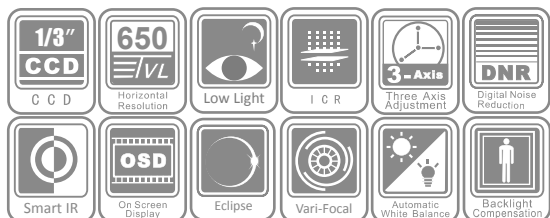
## Available models

DS-2CC5102P, DS-2CC5102N  
 DS-2CC5112P, DS-2CC5112N  
 DS-2CC5172P, DS-2CC5172N  
 DS-2CC5192P, DS-2CC5192N

## Dimensions



# DS-2CC5191/5193/5195/5197P(N)-VF Vari-focal Dome Camera



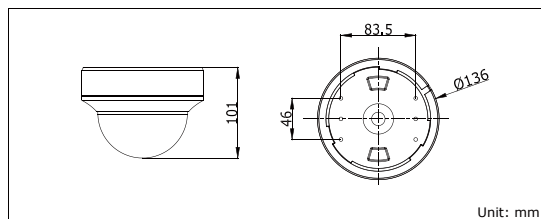
## Specifications

Camera	DS-2CC5191P(N)-VF	DS-2CC5193P(N)-VF	DS-2CC5195P(N)-VF	DS-2CC5197P(N)-VF
<b>Camera</b>				
Image sensor	1/3" SONY EXview HAD CCD II	1/3" SONY EXView HAD CCD II	1/3" SONY EXView HAD CCD II	1/3" SONY Super HAD CCD II
Signal system	PAL / NTSC			
Effective pixels	PAL: 976 (H) × 582 (V), NTSC: 976 (H) × 494 (V)			
Min. illumination	Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON) Color: 0.0014 Lux @ (F1.4, AGC ON), B/W: 0.00014 Lux @ (F1.4, AGC ON)	Color: 0.01 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512) B/W: 0.001 Lux @ (F1.2, AGC ON), 0.00001 Lux @ (F1.2, AGC ON, sensitivity × 512) Color: 0.014 Lux @ (F1.4, AGC ON), 0.00014 Lux @ (F1.4, AGC ON, sensitivity × 512) B/W: 0.0014 Lux @ (F1.4, AGC ON), 0.000014 Lux @ (F1.4, AGC ON, sensitivity × 512)	Color: 0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512) B/W: 0.0001 Lux @ (F1.2, AGC ON), 0.00001 Lux @ (F1.2, AGC ON, sensitivity × 512) Color: 0.0014 Lux @ (F1.4, AGC ON), 0.000014 Lux @ (F1.4, AGC ON, sensitivity × 512) B/W: 0.00014 Lux @ (F1.4, AGC ON), 0.0000014 Lux @ (F1.4, AGC ON, sensitivity × 512)	Color: 0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512) B/W: 0.0001 Lux @ (F1.2, AGC ON), 0.00001 Lux @ (F1.2, AGC ON, sensitivity × 512) Color: 0.0014 Lux @ (F1.4, AGC ON), 0.000014 Lux @ (F1.4, AGC ON, sensitivity × 512) B/W: 0.00014 Lux @ (F1.4, AGC ON), 0.0000014 Lux @ (F1.4, AGC ON, sensitivity × 512)
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s			
Lens	2.8 - 12 mm @ F1.4 Angle of view: 92° - 27.2°			
Lens mount	φ14			
Auto Iris	DC drive			
Angle adjustment	Pan: 0 - 355°, Tilt: 0 - 180°, Rotation: 0 - 355°			
Day & night	IR cut filter with auto switch			
Horizontal resolution	650 TVL (Color), 700 TVL (B/W)			
Wide Dynamic Range	Digital	Digital	Digital	75 dB
Synchronization	Internal / power synchronization			
Video output	1Vp-p composite output (75 Ω/BNC) Test monitor out [1Vp-p composite output (75 Ω/BNC), device line]			
S/N ratio	More than 62 dB			
<b>Menu</b>				
Camera ID	On / Off (52 letters, position adjustable)	On / Off (16 letters, position adjustable)	On / Off (16 letters, position adjustable)	On / Off (16 letters, position adjustable)
Auto Gain	--	Low / Middle / High / Off		
D/N Mode	Auto / Day / Night			
White Balance	ATW/Push/User1/User2/ Anti CR/Manual/Push lock		Auto trace WB1/Auto trace WB2/Manual/Auto Control	
Private Mask	On / Off, maximum 8 zones		On / Off, maximum 12 zones	
Motion Detection	On / Off	On / Off	On / Off	On / Off
BLC	BLC/HLC/Off		Area/Value/Off	
WDR	--			Value/ Contrast / Return
Anti-Flicker	--		On/Off	
Language	English/Chinese			
Function	ATR, HLC, DNR, Sharpness, Brightness, Contrast, Hue, Gain, Mirror, Defect Pixel Correction	SMART IR, Digital Wide Dynamic Range, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction		SMART IR, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction
Scene	--	Indoor Standard , Indoor Backlight , Outdoor, Low illumination , IR Standard , Customize		Indoor Standard , Indoor Backlight , Outdoor, Low illumination , Customize
<b>General</b>				
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)			
Power supply	24 VAC ± 10%, 12 VDC ± 10%			
Power consumption	Max. 4 W (Max. 4.5 W with IR cut filter on)			
Dimensions	φ 136 × 101 mm (φ 5.35" × 3.98")			
Weight	800 g (1.76 lbs)			

## Key features

- 1/3" Sony CCD
- 650 TVL high resolution
- Super low illumination
- True day / night
- Smart IR
- 3-axis adjustment

## Dimensions

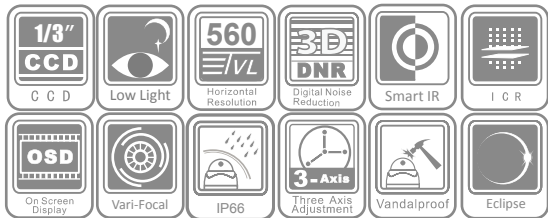


Unit: mm

## Available models

DS-2CC5191P-VF, DS-2CC5191N-VF  
 DS-2CC5193P-VF, DS-2CC5193N-VF  
 DS-2CC5195P-VF, DS-2CC5195N-VF  
 DS-2CC5197P-VF, DS-2CC5197N-VF

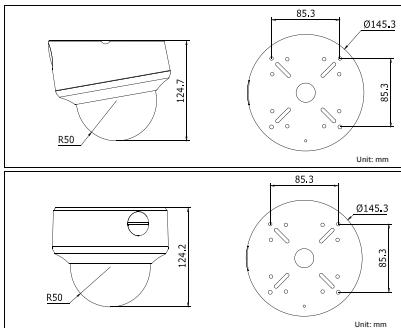
# DS-2CC5173P(N)-VP(IR)(H) 560TVL Vandal-proof Dome Camera



## Key features

- 1/3" Sony Super HAD CCD II
- 560 TVL high resolution
- Low illumination
- True day / night
- 3-axis adjustment
- IP66 rating

## Dimensions



## Accessories



## Specifications

DS-2CC5173P(N)-VP(IR)(H)	
<b>Camera</b>	
Image sensor	1/3" Sony Super HAD CCD II
Signal system	PAL / NTSC
Effective pixels	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	Color: 0.1 lux@F1.2, AGC on, 0.0003 lux@F1.2, AGC on, sens-up × 256 Color: 0.14 lux@F1.4, AGC on, 0.0004 lux@F1.4, AGC on, sens-up × 256 B/W: 0.01 lux@F1.2, AGC on, 0.00003 lux@F1.2, AGC on, sens-up × 256 B/W: 0.014 lux@F1.4, AGC on, 0.00004 lux@F1.4, AGC on, sens-up × 256 -IR: 0.1 lux@F1.2, AGC on, 0.0003 lux@F1.2, AGC on, sens-up × 256, 0 lux with IR 0.14 lux@F1.4, AGC on, 0.0004 lux@F1.4, AGC on, sens-up × 256, 0 lux with IR
Shutter time	PAL: 1/50s ~ 1/100,000s NTSC: 1/60s ~ 1/100,000s
Lens	2.8 ~ 12 mm @F1.4, Angle of view: 92° ~ 27.2°
Lens mount	Φ14
Auto iris	DC drive
Angle adjustment	Pan: 0 ~ 355°, tilt: 0 ~ 80°, rotation: ± 90°
Day & night	IR cut filter with auto switch
Horizontal resolution	Color: 560 TVL, B/W: 600 TVL
Synchronization	Internal / power synchronization
Video output	1Vp-p composite output (75 Ω / BNC); Test monitor out [1Vp-p composite output (75 Ω / BNC), device line]
S/N ratio	More than 52 dB
<b>Menu</b>	
Camera ID	On / off (15 letters, adjusted position)
Auto gain control	Low / middle / high / off
D/N mode	Auto / day / night
White balance	Auto trace WB1 / auto trace WB2 / manual / auto control
Privacy mask	On / off, maximum 8 zones
Motion detection	On / off
BLC	Area / value / off
Eclipse	Value
Digital WDR	Indoor / outdoor / off
Anti-flicker	On / off
Language	English / Chinese
Video	SMART IR, digital WDR, excessive highlight compensation, gamma correction, digital zoom, digital noise reduction, POS / NEG, mirror, sharpness, Y, C, defect pixel correction
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing) -H: -40°C ~ 60°C (-40°F ~ 140°F) with heater and fan on
Power supply	24 VAC ± 10%, 12 VDC ± 10% -H: 24 VAC ± 10%
Weather-proof rating	IP66
Heater	-H: support
IR range	-IR: approx. 20 ~ 30m
Power consumption	4W max. -IR: 12W max. -H: 16W max. -IRH: 24W max.
Impact protection	IEC60068-2-75 test, Eh, 50J; EN50102, up to IK10.
Dimensions	Φ 145.3 × 124.2 mm (Φ 5.72" × 4.89")
Weight	2000g (4.40 lbs)

## Available models

DS-2CC5173P-VP, DS-2CC5173P-VPIR, DS-2CC5173P-VPH, DS-2CC5173P-VPIRH  
DS-2CC5173N-VP, DS-2CC5173N-VPIR, DS-2CC5173N-VPH, DS-2CC5173N-VPIRH

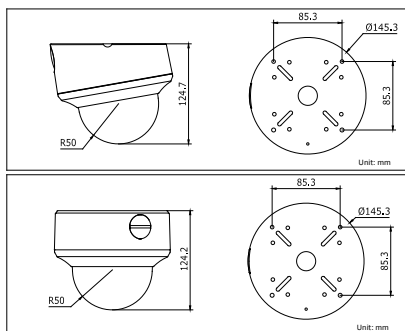
# DS-2CC5191/5195/5197P(N)-VPIR(H) 650TVL Vandal-proof Dome Camera



## Key features

- 1/3" Sony CCD
- 650 TVL high resolution
- Low illumination
- True day / night
- 3-axis adjustment
- IP66 rating

## Dimensions



## Accessories



## Specifications

	DS-2CC5191P(N)-VPIR(H)	DS-2CC5195P(N)-VPIR(H)	DS-2CC5197P(N)-VPIR(H)
<b>Camera</b>			
Image sensor	1/3" SONY EXView HAD CCD II	1/3" SONY EXView HAD CCD II	1/3" SONY Super HAD CCD II
Signal system	PAL / NTSC		
Effective pixels	PAL: 976 (H) × 582 (V), NTSC: 976 (H) × 494 (V)		
Min. illumination	0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0 Lux with IR	0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0.00014 Lux @ (F1.4, AGC ON, sensitivity × 512), 0 Lux with IR	0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0.00014 Lux @ (F1.4, AGC ON, sensitivity × 512), 0 Lux with IR
Shutter time	PAL: 1/50s ~ 1/100,000s, NTSC: 1/60s ~ 1/100,000s		
Lens	2.8 - 12 mm @ F1.4, Angle of view: 92° - 27.2°		
Lens mount	Φ14		
Auto iris	DC drive		
Angle adjustment	Pan: 0 - 355°, Tilt: 0 - 80°, Rotation: ± 90°		
Day & night	IR cut filter with auto switch		
Horizontal resolution	650 TVL (Color), 700 TVL (B/W)		
Wide Dynamic Range	Digital	Digital	75 dB
Synchronization	Internal / power synchronization		
Video output	1Vp-p composite output (75 Ω / BNC); Test monitor out [1Vp-p composite output (75 Ω / BNC), device line]		
S/N ratio	More than 62 dB		
<b>Menu</b>			
Camera ID	On / off (52 letters, position adjustable)	On / Off (16 letters, position adjustable)	On / Off (16 letters, position adjustable)
Auto Gain	--	Low / Middle / High / Off	Low / Middle / High / Off
D/N Mode	Auto / Day / Night / EXT1 / EXT2	Auto / Day / Night	Auto / Day / Night
White Balance	ATW / Push / User1 / User2 / ANTI CR / Manual / PUSH Lock	Auto trace WB1 / Auto trace WB2 / Manual / Auto Control	Auto trace WB1 / Auto trace WB2 / Manual / Auto Control
Private Mask	On / off, maximum 8 zones	On / Off, maximum 12 zones	On / Off, maximum 12 zones
Motion Detection	On / off		
BLC	Area / intensity / off		
WDR	--	--	Value / Contrast / Return
Anti-flicker	--	On / Off	On / Off
Language	English / Chinese		
Function	SMART IR, ATR, HLC, DNR, Sharpness, Brightness, Contrast, Hue, Gain, Mirror, Defect Pixel Correction	SMART IR, Digital Wide Dynamic Range, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction	SMART IR, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction
Scene	--	Indoor Standard, Indoor Backlight, Outdoor, Low illumination, IR Standard, Customize	Indoor Standard, Indoor Backlight, Outdoor, Low illumination, Customize
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F), Humidity 90% or less (non-condensing) -H: -40°C ~ 60°C (-40°F ~ 140°F) with heater and fan on		
Power supply	24 VAC ± 10%, 12 VDC ± 10%, -H: 24 VAC ± 10%		
Weather-proof rating	IP66		
Heater	-H: support		
IR range	Approx 20 to 30 meters		
Power consumption	Max. 13 W -H: Max. 25 W with heater and fan on		
Impact protection	IEC60068-2-75 test, Eh, 50J; EN50102, up to IK10.		
Dimensions	Φ 145.3 × 124.2 mm (Φ 5.72" × 4.89")		
Weight	2000 g (4.40 lbs)		

## Available models

DS-2CC5191P-VPIR, DS-2CC5191P-VPIRH, DS-2CC5191N-VPIR, DS-2CC5191N-VPIRH  
 DS-2CC5195P-VPIR, DS-2CC5195P-VPIRH, DS-2CC5195N-VPIR, DS-2CC5195N-VPIRH  
 DS-2CC5197P-VPIR, DS-2CC5197P-VPIRH, DS-2CC5197N-VPIR, DS-2CC5197N-VPIRH



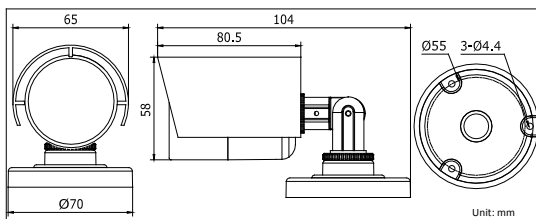
# DS-2CC102/112/192P(N)-IR IR Bullet Camera



## Key features

- Compact design
- 1/3" Sony CCD
- Low illumination
- Auto white balance, auto gain control, electronic shutter control and backlight compensation
- Internal synchronization
- IP66 rating

## Dimensions



## Specifications

	DS-2CC102P(N)-IR	DS-2CC112P(N)-IR	DS-2CC192P(N)-IR
<b>Camera</b>			
Image sensor	1/3" Sony CCD		
Signal system	PAL / NTSC		
Effective pixels	PAL: 500 (H) × 582 (V) NTSC: 510 (H) × 492 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	0.1 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.2 Lux @ (F1.8, AGC ON), 0 Lux with IR		
Shutter time	PAL: 1/50s ~ 1/100,000s NTSC: 1/60s ~ 1/100,000s		
Lens	6 mm @F1.8 (3.6mm, 2.8mm optional) Angle of view: 47° (6mm)		
Lens mount	M12		
Day & night	Electronic		
Horizontal resolution	420 TVL	480 TVL	540 TVL
Synchronization	Internal synchronization		
Video output	1Vp-p composite output (75Ω / BNC)		
S/N ratio	More than 48dB		
BLC	On		
<b>General</b>			
Operating conditions	-10 °C ~ 60 °C (14 °F ~ 140 °F) Humidity 90% or less (non-condensing)		
Power supply	12 VDC ± 10%		
Power consumption	3W max.		
Weather-proof rating	IP66		
IR range	Approx. 10 ~ 20m		
Dimensions	Φ 65 × 104mm (Φ 2.56" × 4.09")		
Weight	450 g (0.99 lbs)		

## Available models

DS-2CC102P-IR, DS-2CC102N-IR, DS-2CC112P-IR, DS-2CC112N-IR, DS-2CC192P-IR, DS-2CC192N-IR

# DS-2CC102/112/192P(N)-IR3/IR5 IR Bullet Camera



## Specifications

	DS-2CC102P(N)-IR3(IR5)	DS-2CC112P(N)-IR3(IR5)	DS-2CC192P(N)-IR3(IR5)
<b>Camera</b>			
Image sensor	1/3" Sony CCD		
Signal system	PAL / NTSC		
Effective pixels	PAL: 500 (H) × 582 (V) NTSC: 510 (H) × 492 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	0.1 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.2 Lux @ (F1.8, AGC ON), 0 Lux with IR		
Shutter time	PAL: 1/50s ~ 1/100,000s NTSC: 1/60s ~ 1/100,000s		
Lens	"IR3" series: 12mm @F1.8 (3.6mm, 6mm, 8mm, 16mm optional), Angle of view: 22.72° (12mm) "IR5" series: 16mm @F1.8 (3.6mm, 6mm, 8mm, 12mm optional), Angle of view: 16.4° (16mm)		
Lens mount	M12		
Day & night	Electronic		
Horizontal resolution	420 TVL	480 TVL	540 TVL
Synchronization	Internal synchronization		
Video output	1Vp-p composite output (75Ω / BNC)		
S/N ratio	More than 48 dB		
BLC	On		
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)		
Weather-proof rating	IP66		
IR range	"IR3" series: approx. 30 ~ 40m "IR5" series: approx. 50 ~ 60m		
Power supply	12 VDC ± 10%		
Power consumption	IR3: 6W max IR5: 8W max		
Dimensions	86.5 × 83 × 165.5 mm (3.41" × 3.27" × 6.52")		
Weight	1000g (2.20 lbs)		

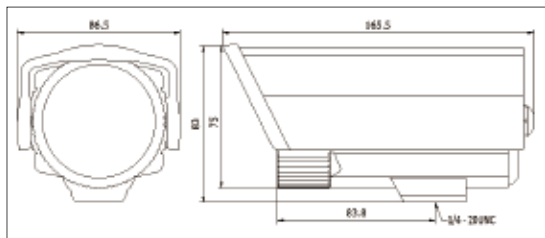
## Available models

DS-2CC102P-IR3, DS-2CC102N-IR3, DS-2CC102P-IR5, DS-2CC102N-IR5, DS-2CC112P-IR3, DS-2CC112N-IR3, DS-2CC112P-IR5, DS-2CC112N-IR5, DS-2CC192P-IR3, DS-2CC192N-IR3, DS-2CC192P-IR5, DS-2CC192N-IR5

## Key features

- Compact design
- 1/3" Sony CCD
- Low illumination
- Auto white balance, auto gain control, electronic shutter control and backlight compensation
- Internal synchronization
- IP66 rating

## Dimensions



## Accessories



DS-1212ZJ-S  
(Indoor wall mount)



DS-1213ZJ-S  
(Outdoor wall mount)

# DS-2CC102/112/192P(N)-IRA IR Bullet Camera



## Key features

- Compact design
- 1/3" Sony CCD
- Low illumination
- Up to 110m IR range
- Auto white balance, auto gain control, electronic shutter control and backlight compensation
- Internal synchronization
- IP66 rating

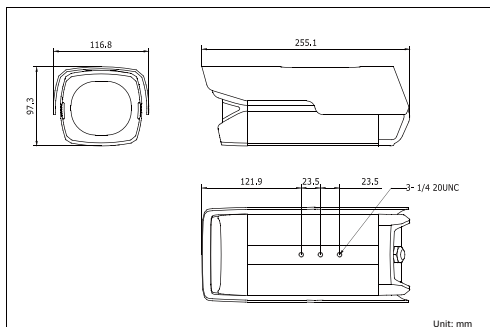
## Specifications

	DS-2CC102P(N)-IRA	DS-2CC112P(N)-IRA	DS-2CC192P(N)-IRA
<b>Camera</b>			
Image sensor	1/3" Sony CCD		
Signal system	PAL / NTSC		
Effective pixels	PAL: 500 (H) × 582 (V) NTSC: 510 (H) × 492 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	0.1 lux@F1.2, AGC on, 0 lux with IR 0.14 lux@F1.4, AGC on, 0 lux with IR		
Shutter time	PAL: 1/50s ~ 1/100,000s NTSC: 1/60s ~ 1/100,000s		
Lens	25 mm @F1.4 (16mm optional) Angle of view: 13.5° (25mm)		
Lens mount	CS mount		
Day & night	Electronic		
Horizontal resolution	420 TVL	480 TVL	540 TVL
Synchronization	Internal synchronization		
Video output	1Vp-p composite output (75Ω / BNC)		
S/N ratio	More than 48 dB		
BLC	On		
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)		
Power supply	24 VAC ± 10%		
Power consumption	15W max.		
Weather-proof rating	IP66		
IR range	Approx. 100 ~ 110m		
Dimensions	116.8 × 97.3 × 255.1 mm (4.60" × 3.83" × 10.04")		
Weight	2500g (5.50 lbs)		

## Available models

DS-2CC102P-IRA, DS-2CC102N-IRA, DS-2CC112P-IRA  
DS-2CC112N-IRA, DS-2CC192P-IRA, DS-2CC192N-IRA

## Dimensions



## Accessories



DS-1212ZJ-S  
(Indoor wall mount)



DS-1213ZJ-S  
(Outdoor wall mount)

# DS-2CC102/112/192P(N)-IRT IR Bullet Camera



## Specifications

	DS-2CC102P(N)-IRT	DS-2CC112P(N)-IRT	DS-2CC192P(N)-IRT
<b>Camera</b>			
Image sensor	1/3" Sony CCD		
Signal system	PAL / NTSC		
Effective pixels	PAL: 500 (H) × 582 (V) NTSC: 510 (H) × 492 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. Illumination	0.1 lux @ (F1.2, AGC on), 0 lux with IR 0.2 lux @ (F1.8, AGC on), 0 lux with IR		
Shutter Time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s		
Lens	4 - 9 mm @ F1.8 (5 ~ 15 mm optional), adjusted by remote control Angle of view: 60° ~ 30° (4 ~ 9 mm)		
Lens Mount	Φ14		
Day & Night	Electronic		
Horizontal Resolution	420 TVL	480 TVL	540 TVL
Synchronization	Internal synchronization		
Video Output	1 Vp-p composite output (75Ω /BNC)		
S/N Ratio	More than 48 dB		
BLC	On		
<b>General</b>			
Operating Conditions	-10 °C ~ 60 °C (14 °F ~ 140 °F) Humidity 90% or less (non-condensing)		
Power Supply	12 VDC ± 10%, 24 VAC ± 10%		
Power Consumption	Max. 13W		
Weather Proof Rating	IP66		
IR Range	Approx 30 to 40 meters		
Dimensions	104.2 × 87.8 × 190.1 mm (4.10" × 3.46" × 7.48")		
Weight	1000g (2.20 lbs)		

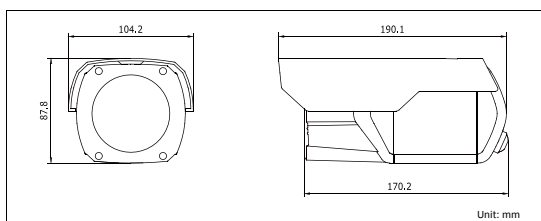
## Available models

DS-2CC102P-IRT, DS-2CC102N-IRT, DS-2CC112P-IRT  
DS-2CC112N-IRT, DS-2CC192P-IRT, DS-2CC192N-IRT

## Key features

- 1/3" Sony CCD
- Vari-focal lens with auto focus. wireless remote with zooming function
- Compact structure design
- Minimum illumination: 0.1lux @ F1.2 (0 lux with IR)
- Up to 40m IR range

## Dimensions



## Accessories



DS-1212ZJ-S  
(Indoor wall mount)



DS-1213ZJ-S  
(Outdoor wall mount)

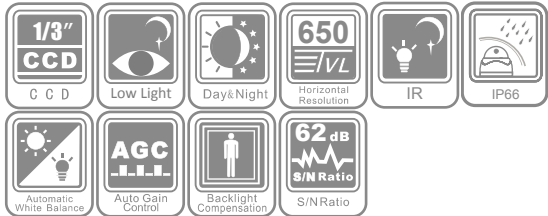
# DS-2CC1192P(N)-IR1/IR3/IR5/IRA 650TVL IR Bullet Camera



DS-2CC1192P(N)-IR1/IR3/IR5



DS-2CC1192P(N)-IRA



## Specifications

	DS-2CC1192P(N)-IR1	DS-2CC1192P(N)-IR3	DS-2CC1192P(N)-IR5	DS-2CC1192P(N)-IRA
<b>Camera</b>				
Image sensor	1/3" SONY Exview HAD CCD II			
Signal system	PAL/NTSC			
Effective pixels	PAL: 976 (H) × 582 (V) NTSC: 976 (H) × 494 (V)			
Min. illumination	0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.002 Lux @ (F1.8, AGC ON), 0 Lux with IR			0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s			
Lens	6 mm @ F1.8 (3.6 mm, 2.8 mm optional) Angle of view: 47° (6 mm)	12 mm @ F1.8 (3.6 mm, 6 mm, 8 mm, 16 mm optional), Angle of view: 22.72° (12 mm)	16 mm @ F1.8 (3.6 mm, 6 mm, 8 mm, 12 mm optional), Angle of view: 16.4° (16 mm)	25 mm @ F1.4 (16 mm optional) Angle of view: 13.5° (25 mm)
Lens mount	M12			CS mount
Day & night	Electronic			
Horizontal resolution	650 TVL			
Synchronization	Internal synchronization			
Video output	1Vp-p composite output (75Ω / BNC)			
S/N ratio	More than 62 dB			
BLC	On			

<b>General</b>				
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F) Humidity 90% or less (non-condensing)			
Power supply	12 VDC ± 10%			24 VAC ± 10%
Power consumption	Max. 3 W	Max. 6 W	Max. 8 W	Max. 15 W
Weather-proof rating	IP66			
IR range	approx 10 to 20 meters	approx 30 to 40 meters	approx 50 to 60 meters	Approx 100 to 110 meters
Dimensions	76.5×73.3×125.5 mm (3.01" × 2.89" × 4.94")	86.5 × 83 × 165.5 mm (3.41" × 3.27" × 6.52")		116.8 × 97.3 × 255.1 mm (4.60" × 3.83" × 10.04")
Weight	600 g (1.32 lbs)	1000 g (2.20 lbs)		2500 g (5.50 lbs)

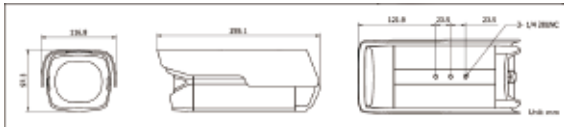
## Available models

DS-2CC1192P-IR1, DS-2CC1192N-IR1  
 DS-2CC1192P-IR3, DS-2CC1192N-IR3  
 DS-2CC1192P-IR5, DS-2CC1192N-IR5  
 DS-2CC1192P-IRA, DS-2CC1192N-IRA

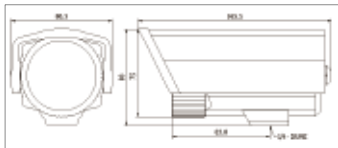
## Key features

- 1/3" Sony EXVIEW HAD CCD II
- 650 TVL high resolution
- Up to 110m IR range
- Super low illumination
- Day / night auto switch
- IP66 rating

## Dimensions



DS-2CC1192P(N)-IRA



DS-2CC1192P(N)-IR1/IR3/IR5

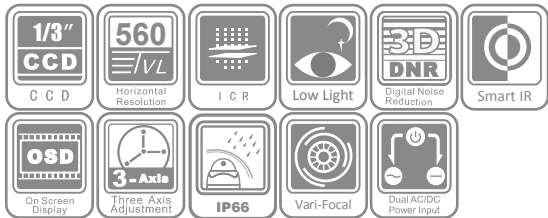
## Accessories



DS-1212ZJ-S  
(Indoor wall mount)

DS-1213ZJ-S  
(Outdoor wall mount)

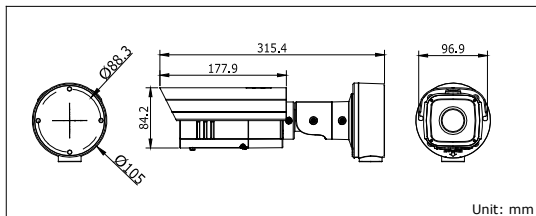
# DS-2CC1173P(N)-VF(IR) Weather-proof IR Bullet Camera



## Key features

- 1/3" Sony Super HAD CCD II
- Low illumination
- True day / night
- 3-axis adjustment
- 3D digital noise reduction
- IP66 rating

## Dimensions



## Specifications

DS-2CC1173P(N)-VF(IR)	
<b>Camera</b>	
Image sensor	1/3" SONY Super HAD CCD II
Signal system	PAL/NTSC
Effective pixels	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	Color: 0.1 Lux @ (F1.2, AGC ON), 0.0003 Lux @ (F1.2, AGC ON, sensitivity × 256) Color: 0.14 Lux @ (F1.4, AGC ON), 0.0004 Lux @ (F1.4, AGC ON, sensitivity × 256) B/W: 0.01 Lux @ (F1.2, AGC ON), 0.00003 Lux @ (F1.2, AGC ON, sensitivity × 256) B/W: 0.014 Lux @ (F1.4, AGC ON), 0.00004 Lux @ (F1.4, AGC ON, sensitivity × 256) -IR: 0.1 Lux @ (F1.2, AGC ON), 0.0003 Lux @ (F1.2, AGC ON, sensitivity × 256), 0 Lux with IR 0.14 Lux @ (F1.4, AGC ON), 0.0004 Lux @ (F1.4, AGC ON, sensitivity × 256), 0 Lux with IR
Shutter time	PAL: 1/50 s to 1/100,000 s NTSC: 1/60 s to 1/100,000 s
Lens	2.8 ~ 12 mm @ F1.4 Angle of view: 92° ~ 27.2°
Lens mount	φ 14
Auto iris	DC drive
Angle adjustment	Pan: 0 ~ 360°, Tilt: 0 ~ 90°, Rotation: 0 ~ 360°
Day & night	IR cut filter with auto switch
Horizontal resolution	560 TVL (Color), 600 TVL (B/W)
Synchronization	Internal/Power synchronization
Video output	1 Vp-p composite output (75 Ω/BNC); Test monitor out [1Vp-p composite output (75 Ω/BNC), device line]
S/N ratio	More than 52 dB
<b>Menu</b>	
Camera ID	On / off (15 letters, adjusted position)
Auto gain control	Low / middle / high / off
D/N mode	Auto / day / night
Auto white balance	Auto trace WB1 / auto trace WB2 / manual / auto control
Privacy mask	On / off, maximum 8 zones
Motion detection	On / off
BLC	Area / value / off
Eclipse	Value
Digital WDR	Indoor / outdoor / off
Anti-flicker	On / off
Language	English / Chinese
Video	SMART IR, Digital Wide Dynamic Range, Excessive High Light Compensation, Gamma Correction, Digital Zoom, Digital Noise Reduction, POS/NEG, Mirror, Sharpness, Y, C, Defect Pixel Correction
<b>General</b>	
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	24 VAC ± 10%, 12 VDC ± 10%
Weather-proof rating	IP66
IR range	approx. 20 ~ 30 meters
Power consumption	Max. 10 W with IR cut filter on
Dimensions	96.9 x 84.2 x 315.4 mm (3.81" × 3.31" × 12.42")
Weight	2100g (4.62 lbs)

## Available models

DS-2CC1173P-VF, DS-2CC1173N-VF, DS-2CC1173P-VFIR, DS-2CC1173N-VFIR

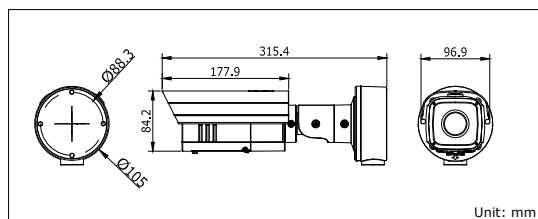
# DS-2CC1191/1195/1197P-VFIR 650TVL Vari-focal IR Bullet Camera



## Key features

- 1/3" Sony CCD
- True Day/Night
- 650TVL high resolution
- Vari-focal auto iris lens
- Digital noise reduction
- Digital Wide Dynamic Range
- Smart IR
- IP66 rating

## Dimensions



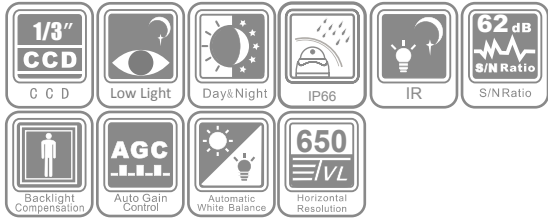
## Specifications

	DS-2CC1191P(N)-VFIR	DS-2CC1195P(N)-VFIR	DS-2CC1197P(N)-VFIR
<b>Camera</b>			
Image sensor	1/3" SONY EXview HAD CCD II	1/3" SONY EXview HAD CCD II	1/3" SONY Super HAD CCD II
Signal system	PAL/NTSC		
Effective pixels	PAL: 976 (H) × 582 (V), NTSC: 976 (H) × 494 (V)		
Min. illumination	0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0 Lux with IR	0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0.00014 Lux @ (F1.4, AGC ON, sensitivity × 512), 0 Lux with IR	0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux @ (F1.2, AGC ON, sensitivity × 512), 0 Lux with IR 0.0014 Lux @ (F1.4, AGC ON), 0.00014 Lux @ (F1.4, AGC ON, sensitivity × 512), 0 Lux with IR
Shutter time	PAL: 1/50 s to 1/100,000 s, NTSC: 1/60 s to 1/100,000 s		
Lens	2.8 - 12 mm @ F1.4, Angle of view: 92° - 27.2°		
Lens mount	φ 14		
Auto iris	DC drive		
Angle adjustment	Pan: 0 ~ 360°, Tilt: 0 ~ 90°, Rotation: 0 ~ 360°		
Day & night	IR cut filter with auto switch		
Horizontal resolution	650 TVL (Color), 700 TVL (B/W)		
WDR	Digital	Digital	75 dB
Synchronization	Internal/Power synchronization		
Video output	1 Vp-p composite output (75 Ω/BNC); Test monitor out [1Vp-p composite output (75 Ω/BNC), device line]		
S/N ratio	More than 62 dB		
<b>Menu</b>			
Camera ID	On / off (52 letters, adjusted position)	On / off (16 letters, adjusted position)	
Auto Gain	--	Low / Middle / High / Off	
D/N mode	Auto / Day / Night / EXT1 / EXT2	Auto / Day / Night	
White balance	ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK	Auto trace WB1 / Auto trace WB2 / Manual / Auto Control	
Privacy mask	On / off, maximum 8 zones	On / Off, maximum 12 zones	
Motion detection	On / off		
BLC	BLC / HLC / Off	Area / Value / Off	Area / Value / Off
WDR	--	--	Value / Contrast / Return
Anti-flicker	--	On / Off	On / Off
Language	English / Chinese		
Function	SMART IR, ATR, HLC, DNR, Sharpness, Brightness, Contrast, Hue, Gain, Mirror, Defect Pixel Correction	SMART IR, Digital Wide Dynamic Range, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction	SMART IR, Eclipse, Digital Noise Reduction, Sharpness, Brightness, Saturation, Resolution, Electronic image stabilization, Digital Zoom, Mirror, Defect Pixel Correction
Scene	--	Indoor Standard , Indoor Backlight , Outdoor, Low illumination , IR Standard , Customize	Indoor Standard , Indoor Backlight , Outdoor, Low illumination , Customize
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)		
Power supply	24 VAC ± 10%, 12 VDC ± 10%		
Weather-proof rating	IP66		
IR range	approx. 20 ~ 30 meters		
Power consumption	Max. 9.5 W		
Dimensions	96.9 x 84.2 x 315.4 mm (3.81" × 3.31" × 12.42")		
Weight	2100g (4.62 lbs)		

## Available models

DS-2CC1191P-VFIR, DS-2CC1191N-VFIR  
DS-2CC1195P-VFIR, DS-2CC1195N-VFIR  
DS-2CC1197P-VFIR, DS-2CC1197N-VFIR

# DS-2CC5192P(N)-IR1/IR3 IR Weather-proof Dome Camera



## Specifications

DS-2CC5192P(N)-IR1/IR3	
<b>Camera</b>	
Image sensor	1/3" Sony EXVIEW HAD CCD II
Signal system	PAL / NTSC
Effective pixels	PAL: 976 (H) × 582 (V) NTSC: 976 (H) × 494 (V)
Min. illumination	0.001 lux@F1.2, AGC on, 0 lux with IR 0.002 lux@F1.8, AGC on, 0 lux with IR
Shutter time	PAL: 1/50s ~ 1/100,000s NTSC: 1/60s ~ 1/100,000s
Lens	"-IR1" series: 6mm @ F1.8 (3.6mm, 2.8mm optional) Angle of view: 47° (6mm) "-IR3" series: 12mm @ F1.8 (3.6mm, 6mm, 8mm, 16mm optional) Angle of view: 22.72° (12mm)
Lens mount	M12
Angle adjustment	Pan: 0 ~ 355°; Tilt: 0 ~ 75°;
Day / night	Electronic
Horizontal resolution	650 TVL
Synchronization	Internal synchronization
Video output	1Vp-p composite output (75Ω / BNC)
S/N ratio	More than 62 dB
BLC	On
<b>General</b>	
Operating conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	IR1: Max. 3 W IR3: Max. 6 W
Weather-proof rating	IP66
IR range	"-IR1" series: approx 10 ~ 20 meters "-IR3" series: approx 30 ~ 40 meters
Dimensions	Φ 129 × 80.1 mm (Φ 5.08" × 3.15")
Weight	700g (1.54 lbs)

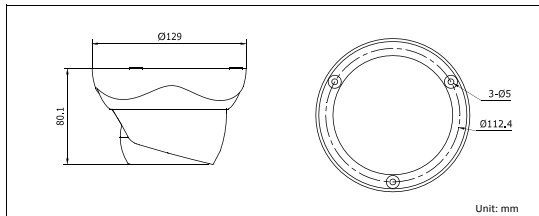
## Available models

DS-2CC5192P-IR1, DS-2CC5192P-IR3  
DS-2CC5192N-IR1, DS-2CC5192N-IR3

## Key features

- 1/3" Sony EXVIEW HAD CCD II
- 650 TVL high resolution
- Up to 40m IR range
- Super low illumination
- Day / night auto switch
- IP66 rating

## Dimensions



Unit: mm



# DS-2CC502/512/592P(N)-IR/IR3 IR Dome Camera



DS-2CC502/512/592P(N)-IR3



DS-2CC502/512/592P(N)-IR



## Key features

- Compact design
- 1/3" Sony CCD
- Low illumination
- Day / night auto switch
- Rich image enhancements
- IP66 rating

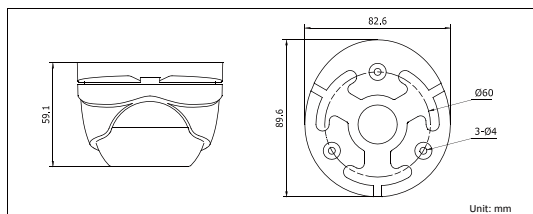
## Specifications

	DS-2CC502P(N)-IR(IR3)	DS-2CC512P(N)-IR(IR3)	DS-2CC592P(N)-IR(IR3)
<b>Camera</b>			
Image sensor	1/3" Sony CCD		
Signal system	PAL / NTSC		
Effective pixels	PAL: 500 (H) × 582 (V) NTSC: 510 (H) × 492 (V)	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)	
Min. illumination	0.1 lux@F1.2, AGC on, 0 lux with IR 0.2 lux@F1.8, AGC on, 0 lux with IR		
Shutter time	PAL: 1/50s ~ 1/100,000s NTSC: 1/60s ~ 1/100,000s		
Lens	"-IR" series: 6mm @ F1.8 (3.6mm, 2.8mm optional) Angle of view: 47° (6mm) "-IR3" series: 12 mm @ F1.8 (3.6 mm, 6 mm, 8 mm, 16 mm optional) Angle of view: 22.72° (12 mm)		
Lens mount	M12		
Angle adjustment	Pan: 0 ~ 355°; tilt: 0 ~ 75°;		
Day & night	Electronic		
Horizontal resolution	420 TVL	480 TVL	540 TVL
Synchronization	Internal synchronization		
Video output	1Vp-p composite output (75Ω / BNC)		
S/N ratio	More than 48 dB		
BLC	On		
<b>General</b>			
Operating conditions	-10°C ~ 60°C (14°F ~ 140°F) Humidity 90% or less (non-condensing)		
Power supply	12 VDC ± 10%		
Power consumption	"-IR" series: 3W MAX "-IR3" series: 6W MAX		
Weather-proof rating	IP66		
IR range	"-IR" series: approx 10 ~ 20 meters "-IR3" series: approx 30 ~ 40 meters		
Dimensions	"-IR" series: Φ 89.6 × 59.1mm (Φ 3.53" × 2.33") "-IR3" series: Φ 129 × 80.1mm (Φ 5.08" × 3.15")		
Weight	"-IR" series: 400g (0.88 lbs) "-IR3" series: 700g (1.54 lbs)		

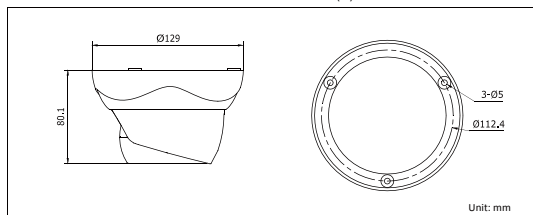
## Available models

DS-2CC502P-IR, DS-2CC502N-IR, DS-2CC512P-IR, DS-2CC512N-IR, DS-2CC592P-IR, DS-2CC592N-IR  
DS-2CC502P-IR3, DS-2CC502N-IR3, DS-2CC512P-IR3, DS-2CC512N-IR3, DS-2CC592P-IR3, DS-2CC592N-IR3

## Dimensions



DS-2CC502/512/592P(N)-IR



DS-2CC502/512/592P(N)-IR3

# DS-2CE5512P(N) 500TVL DIS Dome Camera



## Key features

- 1/4" DIS
- 500 TVL resolution
- Day / night auto switch
- 3-axis adjustment
- Compact design
- Wide operating temperature range

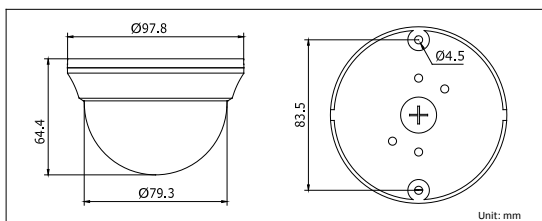
## Specifications

DS-2CE5512P(N)	
<b>Camera</b>	
Image sensor	1/4" DIS
Signal system	PAL/NTSC
Effective pixels	640 (H) × 480 (V)
Min. illumination	0.1 Lux @ (F1.2, AGC ON) 0.28 Lux @ (F2.0, AGC ON)
Shutter time	PAL: 1/25 s to 1/15,000 s NTSC: 1/30 s to 1/15,000 s
Lens	2.8 mm @ F2.0 (3.6 mm, 6 mm, optional) Angle of view: 66.2° (2.8 mm)
Lens mount	M12
Angle adjustment	Pan: 0 - 355°, Tilt: 0 - 90°, Rotation: 0 - 355°
Day / night	Electronic
Horizontal resolution	500 TVL
Synchronization	Internal synchronization
Video output	1Vp-p composite output (75 Ω/BNC)
S/N ratio	More than 52 dB
<b>General</b>	
Operating conditions	-40 °C - 60 °C (-40 °F - 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	Max.0.5 W
Dimension	Φ 97.8 x 64.4 mm (Φ 3.85" x 2.54")
Weight	300 g (0.66 lbs)

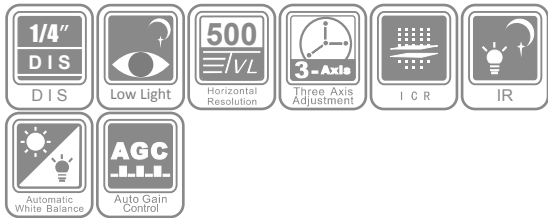
## Available models

DS-2CE5512P, DS-2CE5512N

## Dimensions



# DS-2CE5512P(N)-IRP 500TVL IR DIS Dome Camera



## Specifications

DS-2CE5512P(N)-IRP	
<b>Camera</b>	
Image sensor	1/4" DIS
Signal system	PAL/NTSC
Effective pixels	640 (H) × 480 (V)
Min. illumination	0.1 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.2 Lux @ (F1.8, AGC ON), 0 Lux with IR
Shutter time	PAL: 1/25 s to 1/15,000 s NTSC: 1/30 s to 1/15,000 s
Lens	2.8 mm @ F1.8 (3.6 mm, 6 mm optional) Angle of view: 66.2° (2.8 mm)
Lens mount	M12
Angle adjustment	Pan: 0 - 360°; Tilt: 0 - 85°; Rotation: 0 - 360°
Day / night	IR cut filter with auto switch
Horizontal resolution	500 TVL
Synchronization	Internal synchronization
Video output	1Vp-p composite output (75 Ω/BNC)
S/N ratio	More than 52 dB
<b>General</b>	
Operating conditions	-40 °C - 60 °C (-40 °F - 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	Max. 2.5 W
IR Range	Approx. 10 to 20 meters
Dimension	Φ 89.5 × 69.8 mm (Φ 3.52" × 2.75")
Weight	200 g (0.44 lbs)

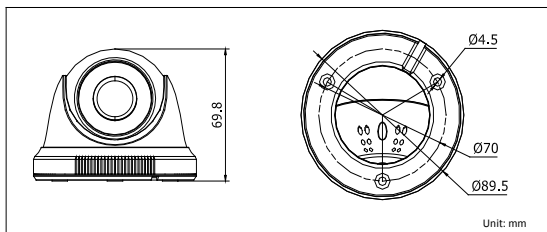
## Key features

- 1/4" DIS
- 500 TVL resolution
- 20m IR range
- Low illumination
- True day / night
- 3-axis adjustment
- Wide operating temperature range

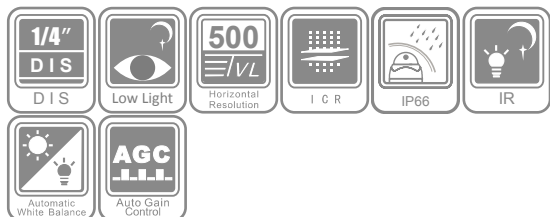
## Available models

DS-2CE5512P-IRP, DS-2CE5512N-IRP

## Dimensions



# DS-2CE5512P(N)-IR 500TVL IR Weather-proof DIS Dome Camera



## Specifications

DS-2CE5512P(N)-IR	
<b>Camera</b>	
Image sensor	1/4" DIS
Signal system	PAL / NTSC
Effective pixels	640(H) × 480(V)
Min. illumination	0.1 lux @ (F1.2, AGC ON), 0 lux with IR 0.2 lux @ (F1.8, AGC ON), 0 lux with IR
Shutter time	PAL: 1/25s ~ 1/15,000s NTSC: 1/30s ~ 1/15,000s
Lens	2.8mm @ F1.8 (3.6mm, 6mm optional) Angle of view: 66.2° (2.8mm)
Lens mount	M12
Angle adjustment	Pan: 0 ~ 355°; Tilt: 0 ~ 75°
Day & night	IR cut filter with auto switch
Horizontal resolution	500 TVL
Synchronization	Internal synchronization
Video output	1Vp-p composite output (75 Ω / BNC)
S/N ratio	More than 52dB
<b>General</b>	
Operating conditions	-40°C ~ 60°C (-40°F ~ 140°F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	2.5W max
Weather-proof rating	IP66
IR range	Approx 10 to 20 meters
Dimensions	Φ 89.6 × 59.1mm (Φ 3.53" × 2.33")
Weight	400g (0.88 lbs)

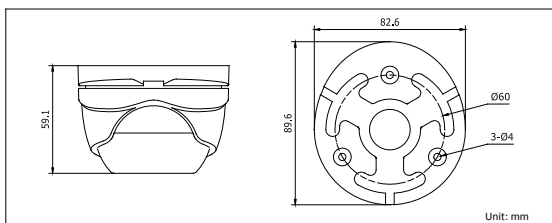
## Available models

DS-2CE5512P-IR, DS-2CE5512N-IR

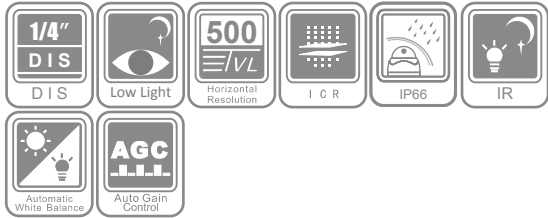
## Key features

- 1/4" DIS
- 500 TVL resolution
- 20m IR range
- Low illumination
- True day / night
- IP66 rating
- Wide operating temperature range

## Dimensions



# DS-2CE1512P(N)-IR IR Weather-proof DIS Bullet Camera



## Specifications

DS-2CE1512P(N)-IR	
<b>Camera</b>	
Image sensor	1/4" DIS
Signal system	PAL / NTSC
Effective pixels	640 (H) × 480 (V)
Min. illumination	0.1 lux @ (F1.2, AGC on), 0 lux with IR 0.2 lux @ (F1.8, AGC on), 0 lux with IR
Shutter time	PAL: 1/25 s to 1/15,000 s NTSC: 1/30 s to 1/15,000 s
Lens	2.8 mm @ F1.8 (3.6 mm, 6 mm optional) Angle of view: 66.2° (2.8 mm)
Lens mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & night	IR cut filter with auto switch
Horizontal resolution	500 TVL
Synchronization	Internal synchronization
Video output	1 Vp-p composite output (75 Ω/BNC)
S/N ratio	More than 52dB
<b>General</b>	
Operating conditions	-40 °C ~ 60 °C (-40 °F ~ 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	Max. 2.5 W
Weather-proof rating	IP66
IR range	Approx 10 to 20 meters
Dimensions	Φ70×154.3 mm (Φ2.76" ×6.07")
Weight	450 g (0.99 lbs)

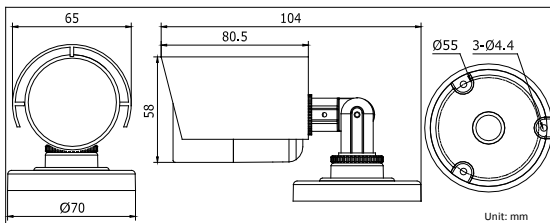
## Available models

DS-2CE1512P-IR, DS-2CE1512N-IR

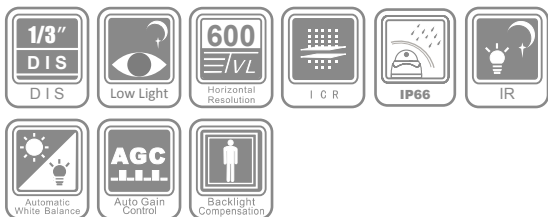
## Key features

- 1/4" DIS
- 500TVL resolution
- 20m IR range
- Low illumination
- True day / night
- IP66 rating
- Wide operating temperature range

## Dimensions



# DS-2CE1582P(N)-IR1/IR3 600 TVL DIS IR Bullet Camera



## Specifications

DS-2CE1582P(N)-IR1(IR3)	
<b>Camera</b>	
Image sensor	1/3" DIS
Signal system	PAL/NTSC
Effective pixels	720(H)×480(V)
Min. illumination	0.1Lux @ (F1.2,AGC ON),0 Lux with IR 0.2Lux @ (F1.8,AGC ON),0 Lux with IR
Shutter time	PAL: 1/25 s to 1/15,000 s NTSC: 1/30 s to 1/15,000 s
Lens	"-IR1" series: 6mm @ F1.8 (2.8mm, 3.6mm optional), Angle of view: 47° (6mm) "-IR3" series: 12mm @ F1.8 (3.6mm, 6mm, 8mm, 16mm optional), Angle of view: 22.72° (12mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	IR cut filter with auto switch
Horizontal Resolution	600 TVL
Synchronization	Internal synchronization
Video Output	1Vp-p composite output (75 Ω/BNC)
S/N Ratio	More than 52 dB
<b>General</b>	
Operating conditions	-40 °C ~ 60 °C (-40 °F ~ 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	Max. 7.5 W
Housing	Weather-proof IP66-rated
IR range	"-IR1" series: Approx. 10 to 20 meters "-IR3" series: Approx. 30 to 40 meters
Dimensions	111.6 × 86.1 × 231.9 mm(4.39" × 3.39" × 9.13")
Weight	1000 g (2.20 lbs)

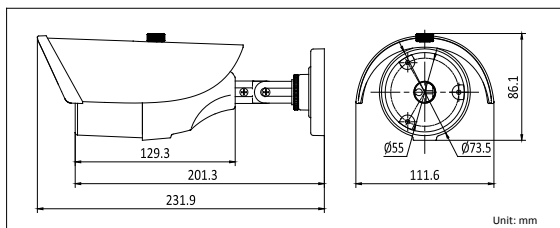
## Available models

DS-2CE1582P-IR1 , DS-2CE1582P-IR3, DS-2CE1582N-IR1, DS-2CE1582N-IR3

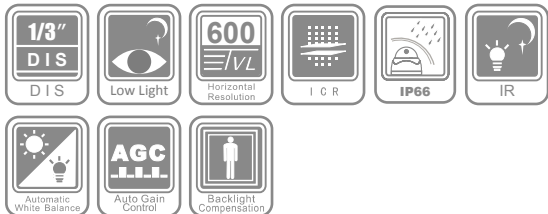
## Key features

- 1/3" DIS
- Min. illumination: 0.1 Lux @ F1.2 (0 Lux with IR)
- True Day/Night
- 3-axis (pan/tilt/rotation) positioning
- Wide operating temperature range
- IP66 rating

## Dimensions



# DS-2CE5582P(N)-IR1/IR3 600 TVL DIS IR Dome Camera



## Specifications

DS-2CE5582P(N)-IR1(IR3)	
<b>Camera</b>	
Image sensor	1/3" DIS
Signal system	PAL/NTSC
Effective pixels	720(H)×480(V)
Min. illumination	0.1Lux @ (F1.2,AGC ON),0 Lux with IR 0.2Lux @ (F1.8,AGC ON),0 Lux with IR
Shutter time	PAL: 1/25 s to 1/15,000 s NTSC: 1/30 s to 1/15,000 s
Lens	"-IR1" series: 6mm @ F1.8 (2.8mm, 3.6mm optional), Angle of view: 47° (6mm) "-IR3" series: 12mm @ F1.8 (3.6mm, 6mm, 8mm, 16mm optional), Angle of view: 22.72° (12mm)
Lens mount	M12
Angle Adjustment	Pan: 0 - 355°, Tilt: 0 - 75°, Rotation: 0 - 360°
Day & night	IR cut filter with auto switch
Horizontal resolution	600 TVL
Synchronization	Internal synchronization
Video output	1Vp-p composite output (75 Ω/BNC)
S/N ratio	More than 52 dB
<b>General</b>	
Operating conditions	-40 °C ~ 60 °C (-40 °F ~ 140 °F) Humidity 90% or less (non-condensing)
Power supply	12 VDC ± 10%
Power consumption	Max. 7.5 W
Housing	Weather-proof IP66-rated
IR range	"-IR1" series: Approx. 10 to 20 meters "-IR3" series: Approx. 30 to 40 meters
Dimensions	Φ 130.76×81.7mm(Φ 5.15" x 3.22")
Weight	700 g (1.54 lbs)

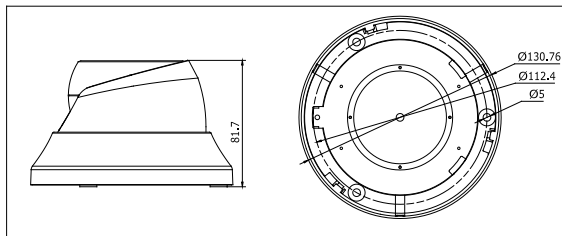
## Key features

- 1/3" DIS
- Min. illumination: 0.1 Lux @ F1.2 (0 Lux with IR)
- True Day/Night
- 3-axis (pan/tilt/rotation) positioning
- Wide operating temperature range
- IP66 rating

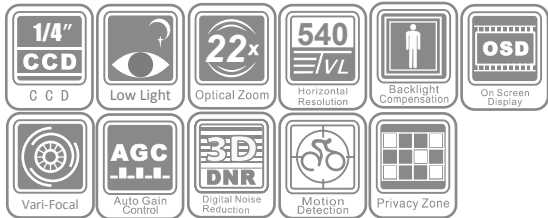
## Available models

DS-2CE5582P-IR1, DS-2CE5582P-IR3, DS-2CE5582N-IR1, DS-2CE5582N-IR3

## Dimensions



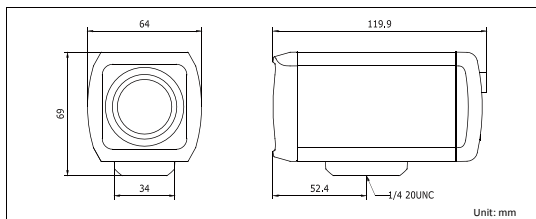
# DS-2CZ2132P(N) 22x CCD Zoom Camera



## Key features

- 1/4" Sony Interline Transfer Super HAD-II CCD
- 22x optical zoom
- 540 TVL high resolution
- Low illumination
- OSD menu
- Day / night auto switch
- 3D digital noise reduction
- Electronic image stabilization

## Dimensions



## Accessories



## Specifications

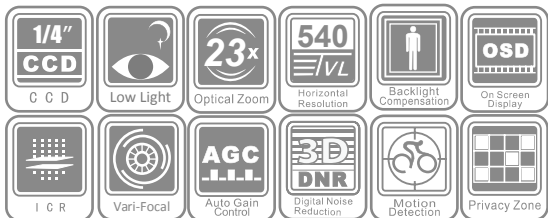
DS-2CZ2132P(N)	
<b>Camera</b>	
Image sensor	1/4" SONY Interline Transfer Super HAD-II CCD
Signal system	PAL/NTSC
Effective pixels	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	Color: 0.2Lux@ (F1.6, AGC ON), 0.0008Lux@ (F1.6, AGC ON, sensitivity×256)
Shutter time	PAL: 1/50s to 1/10, 000s NTSC: 1/60s to 1/10, 000s
Day & night	Electronic
Horizontal resolution	540 TVL
Synchronize mode	Internal
Video output	1 Vp-p Composite Output (75 Ω / BNC)
S/N ratio	>50 dB
<b>Lens</b>	
Focal length	3.9 ~ 85.8 mm, 22x
Zoom speed	Approx. 3s (optical, wide-tele)
Horizontal viewing angle	49.6 ~ 2.40° (wide-tele)
Min. working distance	10 ~ 1500mm (wide-tele)
Aperture range	F1.6 ~ F3.7
<b>Menu</b>	
Camera ID	Off / on (0 ~ 254)
Iris mode	Auto / manual / electronic
Shutter	1/50 (1/60)s ~ 1/10, 000s
Auto gain control	Off / low / high
White balance	ATW 1 / ATW 2 / auto / manual
Focus	Auto / once / manual
Day & night	Auto / B/W / external trigger
Slow shutter	×256 max
Privacy mask	Off / on, Up to 8 zones
Motion detection	Off / mode 1 / mode 2
Video Settings	3D-DNR, Mirror, Definition, Flickerless, Exposure-Compensation, BLC, Electronic image stabilization
Zoom speed	Level 1 ~ 5 adjustable
Digital zoom	Off, ×2, ×4, ×6, ×8, ×10, ×12, ×14, ×16
Zoom ratio display	On / off
ZCF control mode	Mode 1 / mode 2
RS-485	Communication protocol / baud rate / address
Preset	254
<b>General</b>	
Working temperature & humidity	-10°C ~ 60°C, Humidity: ≤ 90% (no condensation)
Power supply	12 VDC ± 10%
Power consumption	4W max.
Dimensions	64 × 69 × 119.9 mm
Weight	450g

## Available models

DS-2CZ2132P, DS-2CZ2132N



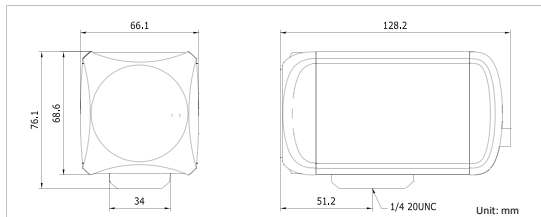
# DS-2CZ2152P(N) 23x CCD ICR Zoom Camera



## Key features

- 1/4" Sony Interline Transfer Super HAD-II CCD
- 23x optical zoom
- 540 TVL high resolution
- Low illumination
- OSD menu
- 3D digital noise reduction
- Electronic image stabilization

## Dimensions



## Accessories



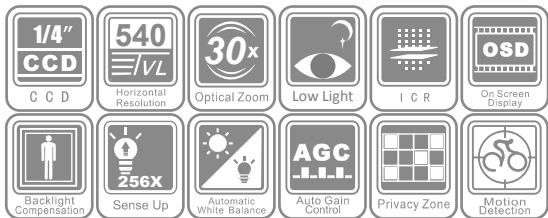
## Specifications

DS-2CZ2152P(N)	
<b>Camera</b>	
Image sensor	1/4" Sony Interline Transfer Super HAD-II CCD
Signal system	PAL/NTSC
Effective pixels	PAL:752(H)×582(V) NTSC:768(H)×494(V)
Min. illumination	Color: 0.2Lux @ (F1.6,AGC ON),0.0008Lux @ (F1.6,AGC ON, sensitivity×256). B/W:0.02Lux @ (F1.6,AGC ON),0.0008Lux @ (F1.6,AGC ON, sensitivity×256)
Shutter time	PAL:1/50s to 1/10, 000s NTSC:1/60s to 1/10, 000s
Day & night	IR cut filter with auto switch
Horizontal resolution	Color: 540 TVL, B/W: 600 TVL
Synchronize mode	Internal
Video output	1Vp-p composite output (75Ω / BNC)
S/N ratio	> 50 dB
<b>Lens</b>	
Focal length	3.84 ~ 88.4 mm, 23x
Zoom speed	Approx. 3s (optical, wide-tele)
Horizontal viewing angle	50.2 ~ 2.36° (wide-tele)
Min. working distance	10 ~ 1500mm (wide-tele)
Aperture range	F1.6 ~ F4.5
<b>Menu</b>	
Camera ID	Off / on (0 ~ 254)
Iris mode	Auto / manual / electronic
Shutter	1/50 (1/60)s ~ 1/10, 000s
AGC	Off / low / high
White balance	ATW 1 / ATW 2 / auto / manual
Focus	Auto / once / manual
Day & night	Auto / B/W / external trigger
Slow shutter	×256 max
Privacy mask	Off / on, up to 8 zones
Motion detection	Off / mode 1 / mode 2
Video settings	3D-DNR, mirror, definition, flickerless, exposure-compensation, BLC, electronic image stabilization
Zoom speed	Level 1-5 adjustable
Digital zoom	Off, ×2, ×4, ×6, ×8, ×10, ×12, ×14, ×16
Zoom ratio display	On / off
ZCF control mode	Mode 1 / Mode 2
RS-485	Communication protocol / baud rate / address
Preset	254
<b>General</b>	
Working temperature & humidity	-10°C ~ 60°C , Humidity: ≤ 90% (no condensation)
Power supply	12 VDC ± 10%
Power consumption	4.5W max.
Dimensions	66.1 × 76.1 × 128.2 mm
Weight	550g

## Available models

DS-2CZ2152P, DS-2CZ2152N

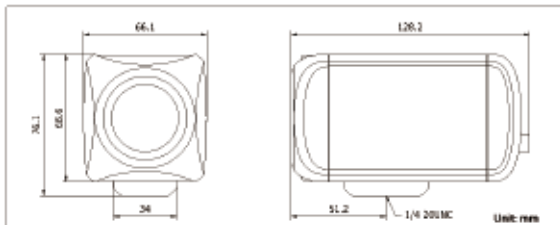
# DS-2CZ2182P(N) 30x CCD ICR Zoom Camera



## Key features

- 1/4" Sony Interline Transfer Super HAD-II CCD
- 30x optical zoom
- 540 TVL high resolution
- Low illumination
- OSD menu
- 3D digital noise reduction
- Electronic image stabilization

## Dimensions



## Accessories



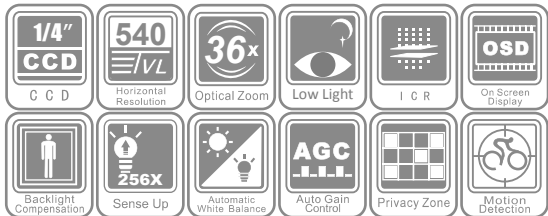
## Specifications

DS-2CZ2182P(N)	
<b>Camera</b>	
Image sensor	1/4" SONY Interline Transfer Super HAD-II CCD
Signal system	PAL / NTSC
Effective pixels	PAL: 752 (H) × 582 (V) NTSC: 768 (H) × 494 (V)
Min. illumination	Color: 0.2Lux @ (F1.6, AGC ON), 0.0008 Lux @ (F1.6, AGC ON, sensitivity × 256) B/W: 0.02 Lux @ (F1.6, AGC ON), 0.00008 Lux @ (F1.6, AGC ON, sensitivity × 256)
Shutter time	PAL: 1/50s to 1/10, 000s NTSC: 1/60s to 1/10, 000s
Day & night	IR cut filter auto switch
Horizontal resolution	540TVL (Color), 600TVL (B/W)
Synchronize mode	Internal synchronization
Video output	1 Vp-p composite output (75Ω/BNC)
S/N ratio	> 50 dB
<b>Lens</b>	
Focal length	3.4 - 102 mm, 30x
Zoom speed	Approx. 5 s (optical, wide - tele)
Horizontal viewing angle	55.8 - 2.0 ° (wide-tele)
Min. working distance	10 - 1500mm (wide-tele)
Aperture range	F1.4 – F3.7
<b>Menu</b>	
Camera ID	Off / on (0 ~ 254)
Iris mode	Auto / manual / electronic
Shutter	1/50 (1/60)s ~ 1/10, 000s
Auto gain control	Off / low / high
White balance	ATW1 / ATW2 / Auto / manual
Focus	Auto / once / manual
Day & night	Auto / B/W / external trigger
Slow Shutter	×256 MAX
Privacy mask	Off / On, up to 8 zones
Motion detection	Off / mode 1 / mode 2
Video settings	3D-DNR, Mirror, Definition, Flickerless, Exposure-Compensation, BLC, Electronic image stabilization
Zoom speed	Level 1-5 adjustable
Digital zoom	Off, ×2, ×4, ×6, ×8, ×10, ×12, ×14, ×16
Zoom ratio display	On / Off
ZCF control mode	Mode 1 / mode 2
RS-485	Communication protocol / baud Rate / address
Preset	254
<b>General</b>	
Working temperature & humidity	-10 °C ~ 60 °C, Humidity: ≤ 90% (no condensation)
Power supply	12 VDC ± 10%
Power consumption	4.5W MAX
Dimensions	66.1 × 76.1 × 128.2 mm
Weight	550g

## Available models

DS-2CZ2182P, DS-2CZ2182N

# DS-2CZ2192P(N) 36x CCD ICR Zoom Camera



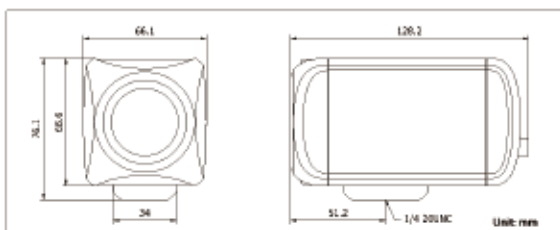
## Specifications

DS-2CZ2192P(N)	
<b>Camera</b>	
Image sensor	1/4" SONY Interline Transfer Super HAD-II CCD
Signal system	PAL / NTSC
Effective pixels	PAL:752(H)×582(V) NTSC:768(H)×494(V)
Min. illumination	Color: 0.2Lux @ (F1.6, AGC ON), 0.0008 Lux @ (F1.6, AGC ON, sensitivity × 256) B/W: 0.02 Lux @ (F1.6, AGC ON), 0.00008 Lux @ (F1.6, AGC ON, sensitivity × 256)
Shutter time	PAL:1/50s to 1/10, 000s NTSC:1/60s to 1/10, 000s
Day & night	IR cut filter auto switch
Horizontal resolution	540TVL (Color), 600TVL (B/W)
Synchronize mode	Internal synchronization
Video output	1 Vp-p composite output (75Ω/BNC)
S/N ratio	> 50 dB
<b>Lens</b>	
Focal length	3.3 - 119 mm, 36x
Zoom speed	Approx.6 s (optical, wide - tele)
Horizontal viewing angle	57.1 - 1.7 ° (wide-tele)
Min. working distance	10 - 1500mm (wide-tele)
Aperture range	F1.4 – F4.2
<b>Menu</b>	
Camera ID	Off / on (0 ~ 254)
Iris mode	Auto / manual / electronic
Shutter	1/50 (1/60)s ~ 1/10, 000s
Auto gain control	Off / low / high
White balance	ATW1 / ATW2 / Auto / manual
Focus	Auto / once / manual
Day & night	Auto / B/W / external trigger
Slow Shutter	×256 MAX
Privacy mask	Off / on, up to 8 zones
Motion detection	Off / mode 1 / mode 2
Video Parameter	3D-DNR, Mirror, Definition, Flickerless, Exposure-Compensation, BLC, Electronic image stabilization
Focus-changing Speed	Level 1-5 adjustable
Digital Zoom	Off, ×2, ×4, ×6, ×8, ×10, ×12, ×14, ×16
Zoom Ratio Display	On/Off
ZCF Control Mode	Mode 1/Mode 2
RS-485	Protocol/Baud Rate/Address
Preset Point	254
<b>General</b>	
Working temperature & humidity	-10°C ~ 60°C , Humidity: ≤ 90% (no condensation)
Power supply	12 VDC ± 10%
Power consumption	5W max
Dimensions	66.1 × 76.1 × 128.2 mm
Weight	550g

## Key features

- 1/4" SONY Interline Transfer Super HAD-II CCD
- 36x optical zoom
- 540 TVL high resolution
- Low illumination
- OSD menu
- 3D digital noise reduction
- Electronic image stabilization

## Dimensions



## Accessories



## Available models

DS-2CZ2192P, DS-2CZ2192N

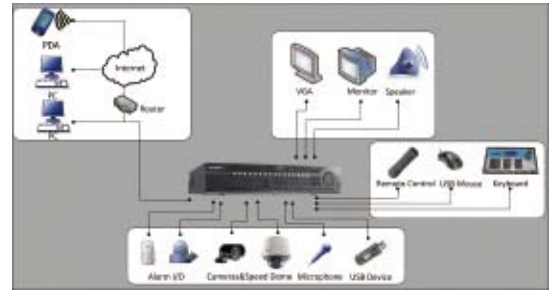
# DVR



# DVR Selection Chart

	Video&Audio Compression	IP Video Input	Recording/ Ecoding/ Decoding resolution	HDMI Output	Video loop out	Network Interface	RAID	HDD	eSATA	USB2.0 interface	Chassis	Page
DS-9004/08/16HFI-ST	√	√	Up to 5 MP	√	4/8/16-ch	Dual 1000M		8 SATA	√	3	2U 19"	P.93
DS-9004/08/16HFI-RH	√	√	Up to 1080P	√	Optional	1000M	√	8 SATA	√	3	2U 19"	P.94
DS-8004/08/16HFI-ST	√	√	Up to 5 MP	√	Optional	100 M		8 SATA	√	2	2U 19"	P.95
DS-7604HI-S	√	√	Up to 5 MP			100 M		1 SATA		2	1U 19"	P.96
DS-9104HFHI-ST	√		1080P real-time	√		Dual 1000M		8 SATA	√	2	2U 19"	P.97
DS-9104/08/16HWI-ST	√		WD1 real-time	√	4/8/16-ch	Dual 1000M		8 SATA	√	2	2U 19"	P.98
DS-9104/08/16HFI-ST	√		4CIF real-time	√	4/8/16-ch	Dual 1000M		8 SATA	√	2	2U 19"	P.99
DS-9104/08/16HFI-RH	√		4CIF real-time	√	Optional	1000M	√	8 SATA	√	3	2U 19"	P.100
DS-8104/08/16HWI-ST	√		WD1 real-time	√	Optional	1000M		8 SATA	√	2	2U 19"	P.101
DS-8104/08/16HFI-ST	√		4CIF real-time	√	Optional	1000M		8 SATA	√	2	2U 19"	P.102
DS-8104/08/16HDI-ST	√		4CIF real-time	√	Optional	1000M		4 SATA	√	3	2U 19"	P.103
DS-8104/08/16HCI-ST	√		4CIF real-time			1000M		4 SATA	√	3	2U 19"	P.104
DS-7304/08/16HFI-ST	√		4CIF real-time	√	Optional	100 M		4 SATA	√	3	1.5 U 19"	P.105
DS-7304/08/16HI-ST	√		2CIF real-time	√	Optional	100 M		4 SATA	√	3	1.5 U 19"	P.106
DS-7204/08/16HFI-ST	√		4CIF real-time			100 M		1 SATA/2SATA		2	1U/1U 19"	P.107
DS-7204/08/16HFI-ST/SN	√		4CIF real-time			100 M		1 SATA/2SATA		2	1U/1U 19"	P.108
DS-7204/08/16HFI-ST/SE	√		4CIF real-time			100 M		1 SATA/2SATA		2	1U/1U 19"	P.109
DS-7204/08/16HVI-ST	√		CIF real-time			100 M		1 SATA/2SATA		2	1U/1U 19"/1.5 U 19"	P.110
DS-7204/08/16HVI-ST/SN	√		CIF real-time			100 M		1 SATA		2	1U	P.111
DS-7204/08/16HVI-ST/SE	√		CIF real-time			100 M		1 SATA/2SATA		2	1U/1U 19"/1.5 U 19"	P.112
DS-7204HVI-ST/L	√		CIF real-time			100 M		1 SATA		2	180*280*180 mm	P.113

# DS-9004/9008/9016HFI-ST Embedded Hybrid DVR



## Key features

- H.264 video compression
- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- 8/16-ch synchronous playback
- HDD quota and group management
- Dual Gigabit network interfaces

## Rear Panel of DS-9016HFI-ST



1. Video in
2. Video loop out
3. Video spot out
4. Video out
5. CVBS audio out, VGA audio out
6. Line in
7. Audio in, RCA connector
8. Audio in, DB26 connector  
(not available for DS-9004HFI-ST)
9. RS-232 serial interface
10. VGA interface
11. HDMI interface
12. eSATA interface
13. LAN1, LAN2 network interface
14. Termination switch
15. RS-485 serial interface, keyboard interface, alarm in, alarm out
16. GND
17. 100~240VAC power input
18. Power Switch

## Specifications

	DS-9004HFI-ST	DS-9008HFI-ST	DS-9016HFI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog Video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL /NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω), PAL /NTSC self-adaptive	16-ch, BNC (1.0 Vp-p, 75 Ω), PAL /NTSC self-adaptive
IP Video input	8-ch	16-ch	32-ch
Composited video input	Up to 8-ch (Analog video + IP video)	Up to 16-ch (Analog video + IP video )	Up to 32-ch (Analog video + IP video )
Audio compression	OggVorbis		
Audio input	4-ch, RCA (2.0 Vp-p, 1 kΩ)	8-ch, Audio 1-4: RCA (2.0 Vp-p, 1 kΩ) Audio 5-8: DB26 connector	16-ch, Audio 1-4: RCA (2.0 Vp-p, 1 kΩ) Audio 5-16: DB26 connector
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output	1-ch, resolution: 1920 × 1080P / 60 Hz , 1920 × 1080P / 50 Hz, 1600 × 1200 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz		
VGA output	1-ch, resolution: 1920 × 1080P / 60 Hz , 1600 × 1200 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz		
Playback resolution	5Megapixels /3Megapixels / 1080P / UXGA / 720P / 4CIF / VGA / DCIF / 2CIF / CIF / QCIF		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
Video spot output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480	4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480	4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
Video loop out	4-ch, BNC (1.0 Vp-p, 75 Ω)	8-ch, BNC (1.0 Vp-p, 75 Ω)	16-ch, BNC (1.0 Vp-p, 75 Ω)
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	25fps (P) / 30fps (N)		
Video bit rate	32 Kbps-8192 Kbps, or user defined (Max. 8192 Kbps)		
Audio output	2-ch, RCA (2.0 Vp-p, 1 kΩ)		
Audio bit rate	16 Kbps		
Dual-stream	Support (Sub-stream at CIF /QCIF: 25 fps (P) / 30 fps (N))		
Stream type	Video, Video & Audio		
Synchronous playback	8-ch	16-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	2, RJ45 10M / 100M / 1000M Ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2, USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100~240 VAC, 6.3A, 50~60Hz		
Consumption	≤ 35 W	≤ 40 W	≤ 45 W
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W × D × H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-9004/9008/9016HFI-RH Embedded Hybrid DVR



## Key features

- H.264 video compression
- Third-party network cameras supported
- HDMI output at up to 1920×1080P resolution
- 4/8/16-ch synchronous playback
- RAID0,1,5,10 supported
- HDD with hot-swap capability

## Rear Panel of DS-9016HFI-RH

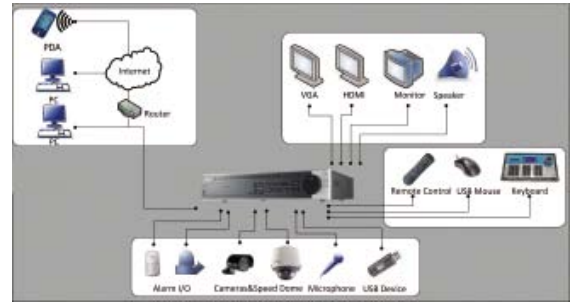


1. Video in, audio in
2. Video spot out (for video preview only), Audio spot out
3. Video out, audio out
4. Line in
5. VGA interface
6. Video loop out
7. RS-232 serial interface
8. eSATA backup / extended storage interface (optional)
9. LAN network interface
10. USB interface
11. RS-485 matched resistance switch
12. RS-485 serial interface, keyboard interface (support cascade), alarm in, alarm out
13. GND
14. 100~240 VAC power input
15. HDMI interface

## Specifications

	DS-9004HFI-RH	DS-9008HFI-RH	DS-9016HFI-RH
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive	16-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive
IP video input	4-ch 4CIF / 2-ch 720P / 1-ch UXGA real time	8-ch 4CIF / 4-ch 720P / 2-ch UXGA real time	16-ch 4CIF / 8-ch 720P / 4-ch UXGA real time
Composited video input	8-ch (4-ch analog video + 4-ch IP video)	16-ch (8-ch analog video + 8-ch IP video)	24-ch (16-ch analog video + 8-ch IP video)
Audio compression	OggVorbis		
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)	16-ch, BNC(2.0 Vp-p, 1 kΩ)
Voice talk input	2-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Preview resolution	PAL: 704×576, NTSC: 704×480		
HDMI output	1-ch, Resolution: 1024 × 768 /60 Hz, 1280 × 1024 /60 Hz, 1920 × 1080 /60 Hz		
VGA output	1-ch, Resolution: 1024 × 768 /60 Hz, 1024 × 768 /70 Hz, 1280 × 1024 /60 Hz		
Encoding resolution	4CIF / DCIF / 2CIF / CIF / QCIF		
Video output	2-ch, BNC (1.0 Vp-p, 75 Ω)		
Video loop out	Optional		
Frame rate	25 fps(P)/30 fps(N)		
Video bit rate	32 Kbps-2048 Kbps, or user defined (Max. 6144 Kbps)		
Audio output	2-ch, BNC (Linear Electrical Level, 600 Ω)		
Audio bit rate	16 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	8 SATA interfaces		
Capacity	Up to 2TB capacity for each disk		
Array type	RAID 0, RAID 1, RAID 5, RAID 10		
Array number	4		
Virtual disk	8		
<b>External interface</b>			
Network interface	1, RJ45 10 M / 100M / 1000M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	3, USB 2.0		
Alarm in	16		
Alarm out	4		
<b>General</b>			
Power supply	100 ~ 240 VAC, 6.3A, 50-60Hz		
Consumption	≤ 70W (without hard disk or DVD-R/W)		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W × D × H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-8004/8008/8016HFI-ST Embedded Hybrid DVR



## Key features

- H.264 video compression
- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- 8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-8016HFI-ST



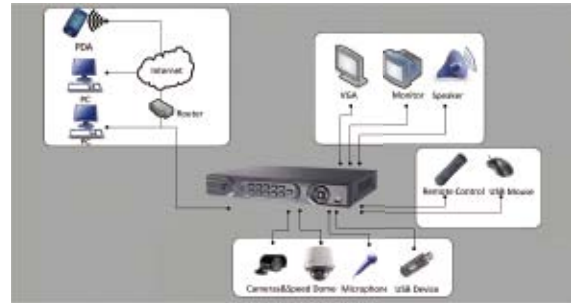
1. Video in
2. Audio in
3. Video spot out
4. Video out
5. Audio out
6. Line in
7. RS-232
8. VGA interface
9. HDMI interface
10. eSATA interface
11. LAN interface
12. Termination switch
13. RS-485 serial interface, keyboard interface, alarm in, alarm out
14. GND
15. 100 ~ 240 VAC
16. POWER

## Specifications

	DS-8004HFI-ST	DS-8008HFI-ST	DS-8016HFI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL /NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive	16-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive
IP video input		16-ch	32-ch
Composited video input	Up to 8-ch (Analog video + IP video)	Up to 16-ch (Analog video + IP video)	Up to 32-ch (Analog video + IP video)
Audio compression	OggVorbis		
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)	16-ch, BNC(2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output	1-ch, resolution: 1920 × 1080P / 60 Hz ,1920 × 1080P / 50 Hz,1600 × 1200 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz		
VGA output	1-ch, resolution: 1920 × 1080P / 60 Hz ,1600 × 1200 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
Video spot output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
Video loop out	Optional		
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	25 fps (P) / 30 fps (N)		
Video bit rate	32 Kbps ~ 8192 Kbps, or user defined (Max. 8192 Kbps)		
Audio output	2-ch, BNC (Linear, 600 Ω)		
Audio bit rate	16 Kbps		
Dual-stream	Support   (Sub-stream at CIF/QCIF: 25fps (P)/30fps (N))		
Stream type	Video, Video & Audio		
Playback resolution	5Megapixels / 3Megapixels / 1080P / UXGA / 720P / 4CIF / VGA / DCIF / 2CIF / CIF / QCIF		
Synchronous playback	8-ch	16-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1 RJ45 10M / 100M / 1000M Ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2, USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100 ~ 240 VAC, 6.3A, 50~60Hz		
Consumption	≤ 35 W	≤ 40 W	≤ 45 W
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W × D × H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		



# DS-7604HI-S Embedded Hybrid DVR



## Key features

- H.264 video compression
- Up to 5 Megapixels resolution recording
- VGA output at 1024×768 resolution
- 4-ch synchronous playback
- HDD group management

## Rear Panel of DS-7604HI-S

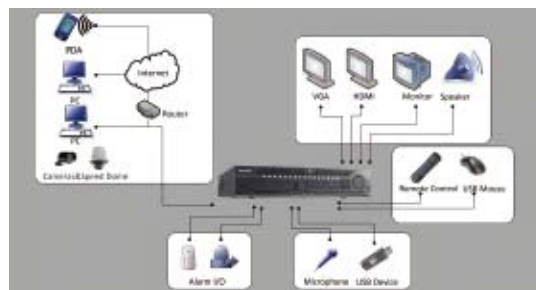


1. USB Interface
2. Video in
3. Video out
4. Audio in
5. Audio out
6. LAN
7. VGA interface
8. RS-485 interface, alarm in, alarm out
9. Power switch
10. 12 VDC power supply
11. GND

## Specifications

DS-7604HI-S	
<b>Video / Audio input</b>	
Video compression	H.264
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
IP video input	2-ch 4CIF real time or 1-ch 720P / UXGA / 1080P real time ; 3-ch 4CIF real time or 1-ch 720P / UXGA / 1080P real time ; 4-ch 4CIF real time/2-ch 720P / UXGA / 1080P real time or 1-ch 2560×1920 not real time ;
Composite video input	6-ch (4-ch analog video+ 2-ch IP video)
Audio compression	OggVorbis
Audio input	1-ch, RCA (2.0 Vp-p, 1 kΩ)
<b>Video / Audio output</b>	
Live view resolution	PAL:704×576, NTSC:704×480
VGA output	1-ch, resolution: 1024×768 / 60Hz
Playback resolution	2560×1920 / UXGA / 1080P / 720P / 4CIF / VGA / DCIF / 2CIF / CIF / QCIF
Video output	2-ch, BNC (PAL: 704×576, NTSC: 704×480)
Frame rate	25 fps (P) / 30fps (N)
Video bit rate	32 Kbps~2048 Kbps, or user defined (Max. 16384 Kbps)
Audio output	1-ch, RCA(2.0 Vp-p, 1 kΩ)
Audio bit rate	16kbps
Synchronous playback	4-ch
<b>Hard disk</b>	
SATA	1 SATA interface
Capacity	Up to 2TB capacity for each disk
<b>External interface</b>	
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface
Serial interface	1 RS-485 interface
USB interface	2 x USB2.0
Alarm in	4
Alarm out	1
<b>General</b>	
Power supply	12 VDC
Consumption	≤ 12W (without hard disk or DVD-R/W)
Working temperature	-10°C ~ 55°C (14°F ~ 131°F)
Working humidity	10%~90%
Dimensions (W x D x H)	315 × 230 × 45 mm
Weight	≤ 2.5kg (without HDD or DVD-R/W)

# DS-9104HFHI-ST HD-SDI High-end DVR



## Key features

- H.264 video compression
- 1920×1080P resolution real-time recording
- 4 HD-SDI interfaces input
- HDMI and VGA output at up to 1920×1080P resolution
- 4-ch synchronous playback
- HDD quota and group management
- Dual Gigabit network interfaces

## Rear Panel of DS-9104HFHI-ST

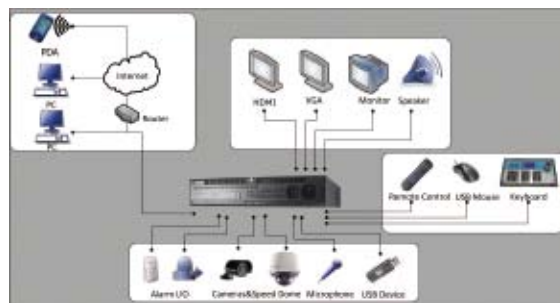


1. HD-SDI interface
2. Video out
3. Audio in
4. Audio out
5. Line in
6. VGA
7. RS-232
8. HDMI
9. e-SATA
10. Network interface
11. RS-485 serial interface, keyboard interface, Alarm in, alarm out
12. Power outlet
13. Switch

## Specifications

DS-9104HFHI-ST	
<b>Video / Audio input</b>	
Video compression	H.264
HD-SDI video input	4-ch; HD-SDI interface; (800mVp-p, 75Ω)
Supported HD-SDI Camera Types	720P/25, 720P/30, 720P/50, 720P/60, 1080P/25, 1080P/30, 1080I/50, 1080I/60,
Audio compression	OggVorbis
Audio input	4-ch, RCA (2.0Vp-p, 1kΩ)
Voice talk input	1-ch, RCA (2.0Vp-p, 1kΩ)
<b>Video / Audio output</b>	
HDMI output	1-ch, resolution: 1920*1080/60Hz(1080P),1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz
VGA output	1-ch, resolution: 1920*1080/60Hz(1080P),1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz
CVBS output	1-ch, BNC (1.0Vp-p, 75Ω), resolution: PAL: 704×576, NTSC: 704×480
Audio Output	2-ch, RCA (2.0Vp-p, 600Ω)
<b>Compression</b>	
Encoding resolution	1920*1080/1280*720/4CIF/CIF
Frame rate	1/16fps- Real time frame rate
Video bit rate	32 Kbps-16384 Kbps user defined (Max. 16384 Kbps)
Audio bit rate	16 Kbps
Dual stream	Support
Stream type	Video/Video & Audio
Synchronous playback	4-ch
Playback resolution	1920*1080 / 1280*720 / 4CIF / CIF
<b>Hard disk</b>	
SATA	Up to 8 SATA interfaces
eSATA	1 eSATA interface
Capacity	Up to 4TB capacity for each disk
<b>External interface</b>	
Network interface	2, RJ45 10M/100M/1000M self-adaptive Ethernet
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)
USB interface	2, USB 2.0
Alarm in	4
Alarm out	2
<b>General</b>	
Power supply	100~240 VAC, 6.3A, 50~60Hz
Consumption	≤ 35W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~+55 °C
Working humidity	10%~90%
Chassis	19-inch rack-mounted 2U chassis
Dimensions(W × D × H)	445 × 470 × 90 mm
Weight	≤ 8 Kg (without hard disk or DVD-R/W)

# DS-9104/9108/9116HWI-ST 960H High-end DVR



## Key features

- H.264 video compression
- WD1(PAL:960×576,NTSC:960×480) resolution real-time recording
- HDMI and VGA output at up to 1920×1080P resolution
- 4/8/16-ch synchronous playback
- HDD quota and group management
- Dual Gigabit network interfaces

## Rear Panel of DS-9116HWI-ST

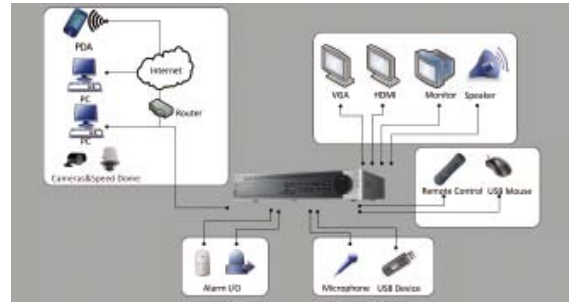


1. Video in
2. Video loop out
3. Video spot out
4. Video out
5. CVBS audio out, VGA audio out
6. Line in
7. Audio in, RCA connector
8. Audio in, DB26 connector
9. RS-232 serial interface
10. VGA interface
11. HDMI interface
12. eSATA interface
13. LAN1, LAN2 network interface
14. Termination switch
15. RS-485 serial interface, keyboard Interface, alarm in, alarm out
16. GND
17. 100~240 VAC power input
18. Power switch

## Specifications

	DS-9104HWI-ST	DS-9108HWI-ST	DS-9116HWI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC(1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	8-ch, BNC(1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	16-ch, BNC(1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
Audio compression	OggVorbis		
Audio input	4-ch, RCA (2.0 Vp-p, 1 kΩ)	8-ch,Audio 1-4: RCA (2.0 Vp-p, 1 kΩ) Audio 5-8: DB26 connector	16-ch,Audio 1-4: RCA (2.0 Vp-p, 1 kΩ) Audio 5-16: DB26 connector
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI / VGA output	1-ch, resolution: 1024×768 /60 Hz, 1280×720 /60 Hz,1280×1024 /60 Hz, 1600×1200 /60 Hz,1920×1080 /60 Hz(1080P)		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video spot output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480	4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480	4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480
Video loop out	4-ch	8-ch	16-ch
Encoding resolution	WD1 / 2CIF / CIF / QCIF		
Frame rate	25fps (P) / 30fps (N)		
Video bit rate	32 Kbps-2048 Kbps, or user defined (Max. 8192 Kbps)		
Audio output	2-ch, RCA (2.0 Vp-p, 1 kΩ)		
Audio bit rate	16kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Playback resolution	WD1/ 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	2, RJ45 10M / 100M / 1000M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2 x USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100~240 VAC, 6.3A, 50~60Hz		
Consumption	≤ 35W	≤ 40W	≤ 45W
Working temperature	-10°C ~ +55°C (14°F ~ 131°F)		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W x D x H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-8104/8108/8116HWI-ST 960H Standalone DVR



## Key features

- H.264 video compression
- WD1(PAL:960×576,NTSC:960×480) resolution real-time recording
- HDMI and VGA output at up to 1920×1080P resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-8116HWI-ST

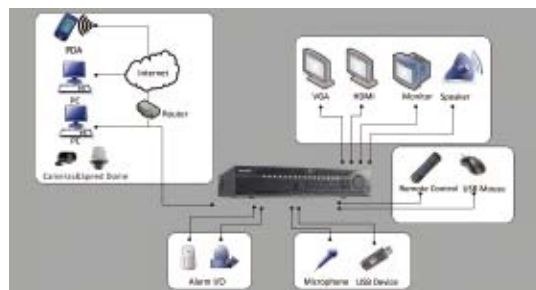


1. Video in
2. Audio in
3. Video spot out
4. Video out
5. Audio out
6. Line in
7. RS-232 serial interface
8. VGA interface
9. HDMI interface
10. eSATA interface
11. LAN interface
12. Termination switch
13. RS-485 serial interface, keyboard interface, alarm in, alarm out
14. GND
15. 100~240 VAC power input
16. Power switch

## Specifications

	DS-8104HWI-ST	DS-8108HWI-ST	DS-8116HWI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC(1.0Vp-p, 75 Ω), PAL/NTSC self-adaptive	8-ch, BNC(1.0Vp-p, 75 Ω), PAL/NTSC self-adaptive	16-ch, BNC(1.0Vp-p, 75 Ω), PAL/NTSC self-adaptive
Audio compression	OggVorbis		
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)	16-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI/ VGA output	1-ch, resolution: 1024×768 /60 Hz, 1280×720 /60 Hz, 1280×1024 /60 Hz, 1600×1200 /60 Hz, 1920×1080P /60 Hz		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video spot output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video loop out	Optional		
Encoding resolution	WD1 / 2CIF / CIF / QCIF		
Frame rate	25fps (P) / 30fps (N)		
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (max. 8192 Kbps)		
Audio output	2-ch, BNC (Linear, 600 Ω)		
Audio bit rate	16 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Playback resolution	WD1 / 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1 ,RJ45 10M / 100M / 1000M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2 x USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100~240 VAC, 6.3A, 50~60 Hz		
Consumption	≤ 35W	≤ 40W	≤ 45W
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W × D × H)	445 × 470 × 90 mm		
Weight	≤ 8Kg (without hard disk or DVD-R/W)		

# DS-9104/9108/9116HFI-ST High-end DVR



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- HDMI and VGA output at up to 1920×1080P resolution
- 4/8/16-ch synchronous playback
- HDD quota and group management
- Dual Gigabit network interfaces

Rear Panel of DS-9116HFI-ST

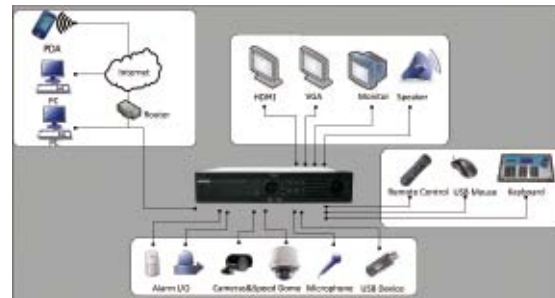


1. Video in
2. Video loop out
3. Video spot out
4. Video out
5. CVBS audio out, VGA audio out
6. Line in
7. Audio in, RCA connector
8. Audio in, DB26 connector
9. RS-232 serial interface
10. VGA interface
11. HDMI interface
12. eSATA interface
13. LAN1, LAN2 network interface
14. Termination switch
15. RS-485 serial interface, keyboard Interface, alarm in, alarm out
16. GND
17. 100~240VAC power input
18. Power switch

## Specifications

	DS-9104HFI-ST	DS-9108HFI-ST	DS-9116HFI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Video input	4-ch, BNC(1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	8-ch, BNC(1.0 Vp-p, 75 Ω), PAL / NTSCself-adaptive	16-ch, BNC(1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
Audio compression	OggVorbis		
Audio input	4-ch, RCA (2.0 Vp-p, 1 kΩ)	8-ch,Audio 1-4: RCA (2.0 Vp-p, 1 kΩ) Audio 5-8: DB26 connector	16-ch,Audio 1-4: RCA (2.0 Vp-p, 1 kΩ) Audio 5-16: DB26 connector
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output	1-ch, resolution:1024×768 /60 Hz, 1280×720 /60 Hz, 1280×1024 /60 Hz, 1600×1200 /60 Hz, 1920×1080P /50 Hz, 1920×1080P /60 Hz		
VGA output	1-ch, resolution:1024×768 /60 Hz, 1280×720 /60 Hz,1280×1024 /60 Hz, 1600×1200 /60 Hz, 1920×1080P /60 Hz		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω),resolution: PAL: 704×576, NTSC: 704×480		
Video spot output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480	4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480	4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480
Video loop out	4-ch	8-ch	16-ch
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	25fps(P) / 30fps(N)		
Video bit rate	32Kbps - 8192Kbps, or user defined (Max. 8192 Kbps)		
Audio output	2-ch, RCA (2.0 Vp-p, 1 kΩ)		
Audio bit rate	16kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Playback resolution	4CIF / 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	2, RJ45 10M / 100M / 1000M self-adaptive ethernet interface		
Serial interfaces	1 RS-232 interface (for parameters confi guration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2 x USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100-240 VAC, 6.3A, 50-60Hz		
Consumption	≤35W	≤40W	≤45W
Working temperature	-10°C ~ +55°C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W x D x H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-9104/9108/9116HFI-RH High-end DVR



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- HDMI output at up to 1920×1080P resolution
- 4/8/16-ch synchronous playback
- RAID0,1,5,10 supported
- HDD with hot-swap capability

Rear Panel of DS-9116HFI-RH

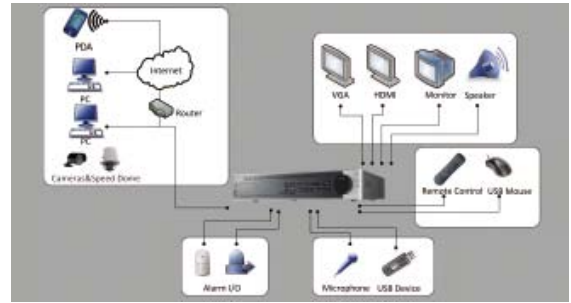


1. Video in, audio in
2. Video spot out (for video live view only), audio spot out
3. Video out, audio out
4. Line in
5. VGA interface
6. Video loop out
7. RS-232 serial interface
8. eSATA interface
9. LAN network interface
10. USB interface
11. RS-485 matched resistance switch
12. RS-485 serial interface, keyboard interface, alarm in, alarm out
13. GND
14. 100~240VAC Power input
15. HDMI interface

## Specifications

	DS-9104HFI-RH	DS-9108HFI-RH	DS-9116HFI-RH
<b>Video / Audio input</b>			
Video compression	H.264		
Video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL /NTSC adaptive	8-ch, BNC (1.0 Vp-p, 75Ω), PAL/NTSC adaptive	16-ch, BNC (1.0 Vp-p, 75Ω), PAL/NTSC adaptive
Audio compression	OggVorbis		
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)	16-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	2-ch, BNC(2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
CVBS output	2-ch, BNC (1.0 Vp-p, 75Ω); resolution: PAL: 704 × 576, NTSC: 704 × 480		
HDMI output	1-ch, resolution: 1024 × 768 /60 Hz, 1280 × 1024 /60 Hz, 1920 × 1080 /60 Hz		
VGA output	1-ch, resolution: 1280 × 1024 /60 Hz, 1024×768 /70 Hz, 1024 × 768/60 Hz,		
Encoding resolution	4CIF /DCIF /2CIF /CIF /QCIF		
Video loop out	Optional		
Frame rate	25 fps (P) / 30 fps (N)		
Video bit rate	32 Kbps-2048 Kbps, or user defined (Max. 6144 Kbps)		
Audio output	2-ch, BNC (Linear, 600 Ω)		
Audio bit rate	16 Kbps		
Dual stream	Support		
Stream type	Video/Video & Audio		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 2TB capacity for each disk		
<b>Disk array</b>			
Array type	RAID0, RAID1, RAID5, RAID10		
Number of array	8		
Number of virtual disk	8		
<b>External interface</b>			
Network interface	1, RJ45 10M /100M /1000M adaptive Ethernet		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	3, USB2.0		
Alarm in	16		
Alarm out	4		
<b>General</b>			
Power supply	100~240 VAC, 6.3A, 50~60Hz		
Consumption	≤ 70 W (without hard disk or DVD-R/W)		
Working temperature	-10°C ~ +55°C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W × D × H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-8104/8108/8116HFI-ST Standalone DVR



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- HDMI and VGA output at up to 1920×1080P resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-8116HFI-ST

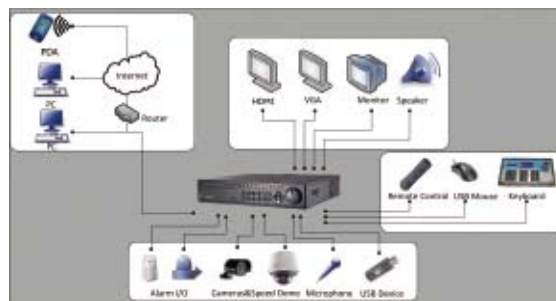


1. Video in
2. Audio in
3. Video spot out
4. Video out
5. Audio out
6. Line in
7. RS-232 serial interface
8. VGA interface
9. HDMI interface
10. eSATA interface
11. LAN interface
12. Termination switch
13. RS-485 serial interface, keyboard interface, alarm in, alarm out
14. GND
15. 100~240 VAC power input
16. Power switch

## Specifications

	DS-8104HFI-ST	DS-8108HFI-ST	DS-8116HFI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC(1.0Vp-p, 75 Ω), PAL / NTSC self-adaptive	8-ch, BNC(1.0Vp-p, 75 Ω), PAL / NTSC self-adaptive	16-ch, BNC(1.0Vp-p, 75 Ω), PAL / NTSC self-adaptive
Audio compression	OggVorbis		
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)	16-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output	1-ch, resolution: 1920×1080P /60 Hz, 1920×1080P /50 Hz, 1600×1200 /60 Hz, 1280×1024 /60 Hz, 1280×720 /60 Hz, 1024×768 /60 Hz,		
VGA output	1-ch, resolution: 1920×1080P /60 Hz, 1600×1200 /60 Hz, 1280×1024 /60 Hz, 1280×720 /60 Hz, 1024×768 /60 Hz,		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video spot output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video loop out	Optional		
Encoding resolution	4CIF/ 2CIF / CIF / QCIF		
Frame rate	25 fps (P) /30 fps (N)		
Video bit rate	32 Kbps - 8192 Kbps, or user defined (Max. 8192 Kbps)		
Audio output	2-ch, BNC (Linear, 600Ω)		
Audio bit rate	16 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Playback resolution	4CIF / 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1 RJ45 10M / 100M / 1000M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2 x USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100~240 VAC, 6.3A, 50~60Hz		
Consumption	≤35W	≤40W	≤45W
Working temperature	-10 °C ~ +55 °C		
Working humidity	10%~90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W × D × H)	445 × 470 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-8104/8108/8116HDI-ST Standalone DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-8116HDI-ST



1. Video in
2. Audio in
3. Video spot out
4. Video out
5. Audio out
6. Line in
7. RS-232 serial interface
8. VGA interface
9. HDMI interface
10. eSATA interface
11. LAN interface
12. Termination switch
13. RS-485 serial interface, keyboard Interface, alarm in, alarm out
14. GND
15. 100~240 VAC power input
16. Power switch

## Specifications

	DS-8104HDI-ST	DS-8108HDI-ST	DS-8116HDI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive	16-ch, BNC (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive
Audio compression	G.711		
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)	16-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output	1-ch, resolution: 1080P:1920×1080 /60 Hz; UXGA: 1600×1200 /60 Hz; SXGA: 1280×1024 /60 Hz; 720P:1280×720 /60 Hz; XGA: 1024×768 /60 Hz.		
VGA output	1-ch, resolution: 1080P:1920×1080 /60 Hz; UXGA: 1600×1200 /60 Hz; SXGA: 1280×1024 /60 Hz; 720P:1280×720 /60 Hz; XGA: 1024×768 /60 Hz.		
CVBS output	2-ch (1 Main Video Out+1 Spot Video Out), BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video loop out (optional)	4-ch	8-ch	16-ch
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	Mode1: 4-ch: 4CIF @ 15 fps or 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N) Mode2: 1-ch: 4CIF / 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N), 3-ch: CIF / QCIF @ 25 fps (P) / 30 fps (N)	Mode1: 8-ch:4CIF @ 12 fps or 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N) Mode2: 2-ch: 4CIF / 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N), 6-ch: CIF / QCIF @ 25 fps (P) / 30 fps (N)	Mode1: 16-ch: 4CIF @ 12 fps or 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N) Mode2: 4-ch: 4CIF / 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N), 12-ch: CIF / QCIF @ 25 fps (P) / 30 fps (N)
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 3072 Kbps)		
Audio output	2-ch, BNC (Linear, 600Ω)		
Audio bit rate	64 Kbps		
Dual-stream	Support, Sub stream: CIF / QCIF		
Stream type	Video , Video & Audio		
Playback resolution	4CIF / 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 4 SATA interfaces	Up to 8 SATA interfaces	Up to 8 SATA interfaces
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1 RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	3, USB2.0		
Alarm in	8	8	16
Alarm out	4		
<b>General</b>			
Power supply	100 ~ 240 VAC, 6.3A, 50-60Hz		
Consumption	≤ 25W (without hard disk or DVD-R/W)	≤ 30W (without hard disk or DVD-R/W)	≤ 35W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ + 55 °C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2 U chassis		
Dimensions (W × D × H)	440 × 450 × 90 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		



# DS-8104/8108/8116HCI-ST Standalone DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- HDD group management

## Rear Panel of DS-8116HCI-ST

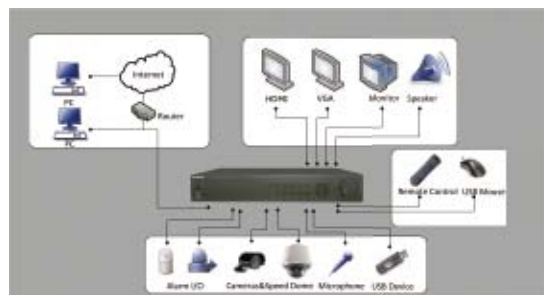


1. Video in, audio in
2. Video spot out
3. Video out, audio out
4. Line in
5. VGA
6. RS-232
7. LAN interface
8. USB interface
9. eSATA interface
10. Termination switch
11. RS-485 interface, controller port, alarm in, alarm out
12. GND
13. 100-240 VAC power supply

## Specifications

	DS-8104HCI-ST	DS-8108HCI-ST	DS-8116HCI-ST
<b>Video / Audio input</b>			
Analog video input	4-ch	8-ch	16-ch
	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio input	4-ch	8-ch	16-ch
	BNC connector (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, BNC connector (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
CVBS output	2-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704×576, NTSC:704×480		
VGA output	1-ch, resolution: 1280×1024 /60 Hz , 1024×768 /60 Hz		
Audio output	1-ch, BNC connector (2.0 Vp-p, 600 Ω)		
<b>Video / Audio encoding</b>			
Video compression	H.264		
Encoding resolution	4CIF / 2CIF / CIF		
Frame rate	25fps (P) / 30fps ( N)		
Video bit rate	32 kbps~2048 kbps, or user defined (Max. 3072 kbps)		
Stream type	Video, Video & Audio		
Dual-stream	Support		
Audio compression	G.711		
Audio bit rate	64kbps		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 4 SATA interfaces	Up to 8 SATA interfaces	Up to 8 SATA interfaces
eSATA	1 eSATA interface		
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-485 serial interface, 1 RS-485 keyboard interface, 1 RS-232 serial interface		
USB interface	3, USB2.0		
Alarm in	4	16	16
Alarm out	2	4	4
<b>General</b>			
Power supply	100 ~ 240 VAC, 6.3A, 50 ~ 60Hz		
Consumption	≤ 50W (without hard disk or DVD-R/W)		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack mounted 2U chassis		
Dimensions (W × D × H)	450 × 450 × 95 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-7304/7308/7316HFI-ST Standalone DVR



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- HDMI and VGA output at up to 1920×1080P resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-7304HFI-ST

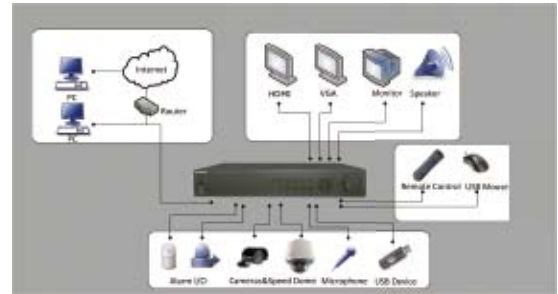


1. Main video out, Spot video out
2. Video in
3. Audio in
4. Line in
5. CVBS audio out, VGA audio out
6. VGA
7. HDMI
8. RS-232 interface
9. eSATA
10. LAN interface
11. USB
12. RS-485 interface, controller port  
alarm in, alarm out
13. GND
14. 100~240 VAC power input
15. Power switch

## Specifications

	DS-7304HFI-ST	DS-7308HFI-ST	DS-7316HFI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	16-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
Audio compression	G.711		
Audio input	4-ch, RCA (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output (with HDMI audio output)	1-ch, resolution: 1080P:1920×1080 /60 Hz; UXGA: 1600×1200 /60 Hz; SXGA: 1280×1024 /60 Hz; 720P:1280×720 /60 Hz; XGA: 1024×768 /60 Hz.		
VGA output	1-ch, resolution: 1080P:1920×1080 /60 Hz; UXGA: 1600×1200 /60Hz; SXGA: 1280×1024 /60 Hz; 720P:1280×720 /60 Hz; XGA: 1024×768 /60 Hz.		
CVBS output	2-ch (1 Main Video Out+1 Spot Video Out), BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video loop out (optional)	4-ch	8-ch	16-ch
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	25 fps (P) / 30 fps (N)		
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (max. 3072 Kbps)		
Audio output	2-ch, RCA (linear, 600Ω)		
Audio bit rate	64 Kbps		
Dual-stream	Support, Sub stream: CIF / QCIF		
Stream type	Video, Video & Audio		
Playback resolution	4CIF / 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 4 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1 RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)		
USB interface	3, USB2.0		
Alarm in	8	8	16
Alarm out	4		
<b>General</b>			
Power supply	100 ~ 240 VAC, 5A, 50~60Hz		
Consumption	≤ 25W (without hard disk or DVD-R/W)	≤ 30W (without hard disk or DVD-R/W)	≤ 35W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ + 55 °C		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 1.5 U chassis		
Dimensions(W x D x H)	440 × 390 × 70 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

# DS-7304/7308/7316HI-ST Standalone DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-7316HI-ST



1. Main video out, spot video out
2. Video in
3. Audio in
4. Line in
5. CVBS audio out, VGA audio out
6. Video loop out
7. RS-232 interface
8. VGA
9. HDMI
10. USB
11. LAN interface
12. RS-485 serial interface, keyboard interface, alarm in, alarm out
13. eSATA interface
14. GND
15. 100~240 VAC power input
16. Power switch

## Specifications

	DS-7304HI-ST	DS-7308HI-ST	DS-7316HI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	16-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
Audio compression	G.711		
Audio input	4-ch, RCA (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
HDMI output (with HDMI audio output)	1-ch, resolution: 1080P:1920×1080 /60 Hz; UXGA: 1600×1200 /60 Hz; SXGA: 1280×1024 /60 Hz; 720P:1280×720 /60 Hz; XGA: 1024×768 /60 Hz.		
VGA output	1-ch, resolution: 1080P:1920×1080 /60 Hz; UXGA: 1600×1200 /60Hz; SXGA: 1280×1024 /60 Hz; 720P:1280×720 /60 Hz; XGA: 1024×768 /60 Hz.		
CVBS output	2-ch (1 Main Video Out+1 Spot Video Out), BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704×576, NTSC: 704×480		
Video loop out (optional)	4-ch	8-ch	16-ch
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	Mode1: 4CIF @ 15 fps or 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N) Mode2: 4CIF / 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N), 3-ch: CIF / QCIF @ 25 fps (P) / 30 fps (N)	Mode1: 4CIF @ 12 fps or 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N) Mode2: 2-ch: 4CIF / 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N), 6-ch: CIF / QCIF @ 25 fps (P) / 30 fps (N)	Mode1: 4CIF @ 12 fps or 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N) Mode2: 4-ch: 4CIF / 2CIF / CIF / QCIF @ 25 fps (P) / 30 fps (N), 12-ch: CIF / QCIF @ 25 fps (P) / 30 fps (N)
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 3072 Kbps)		
Audio output	2-ch, RCA (Linear, 600 Ω)		
Audio bit rate	64 Kbps		
Dual-stream	Support Sub stream: CIF / QCIF		
Stream type	Video, Video & Audio		
Playback resolution	4CIF / 2CIF / CIF / QCIF		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 4 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)		
USB interface	3, USB2.0		
Alarm in	8	8	16
Alarm out	4	4	4
<b>General</b>			
Power supply	100 ~ 240 VAC, 5A, 50~60Hz		
Consumption	≤ 25W (without hard disk or DVD-R/W)	≤ 30W (without hard disk or DVD-R/W)	≤ 35W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W x D x H)	440 × 390 × 70 mm		
Weight	≤ 8kg (without hard disk or DVD-R/W)		

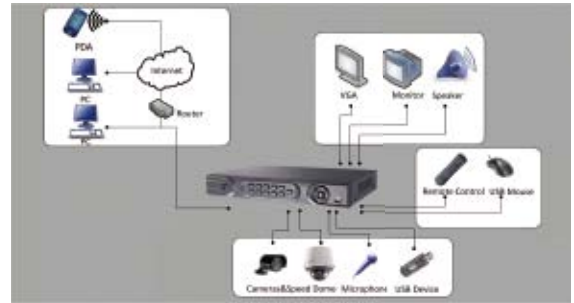
# DS-7204/7208/7216HFI-ST Standalone DVR



DS-7208/7216HFI-ST



DS-7204HFI-ST



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- VGA output at up to 1280×1024 resolution
- HDMI output optional(DS-7208/16HFI-ST)
- Dual-stream
- 4/8/16-ch synchronous playback
- SMTP,NTP, SADP(IP Finder), DHCP protocols

## Rear Panel of DS-7216HFI-ST



1. Main/spot video out
2. Video in
3. Audio in
4. Line in
5. Audio out
6. VGA interface
7. RS-232 serial interface
8. LAN
9. USB interface
10. RS-485 interface
11. Alarm in, alarm out
12. 12 VDC power supply interface
13. Power switch
14. GND

## Specifications

	DS-7204HFI-ST	DS-7208HFI-ST	DS-7216HFI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch	8-ch	16-ch
Video input interface	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio compression	G.711		
Audio input	4-ch, RCA connector (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
VGA output	1-ch, resolution: 1280 × 1024 /60 Hz, 1024 × 768 /60 Hz		
CVBS output	2-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480		
Audio output	1-ch, RCA connector (linear, 1 kΩ)		
Recording resolution	4CIF / 2CIF / CIF		
Frame rate	Main stream: 4CIF / 2CIF / CIF@25 fps (P) / 30 fps (N) Sub stream: CIF / QCIF		
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)		
Stream type	Video, Video & Audio		
Audio bit rate	64 kbps		
Dual-stream	Support		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	1 SATA interface	2 SATA interfaces	2 SATA interfaces
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-485 full-duplex interface, 1 RS-232 interface		
USB interface	2, USB 2.0		
Alarm in	4	8	16
Alarm out	1	4	4
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 10W (without hard disk or DVD-R/W)	≤ 10W (without hard disk or DVD-R/W)	≤ 15W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	Stand-alone 1U chassis	19-inch standard rack-mounted 1U chassis	19-inch standard rack-mounted 1U chassis
Dimensions (W x D x H)	315 × 230 × 45 mm	445 × 290 × 45 mm	445 × 290 × 45 mm
Weight	≤ 2kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)

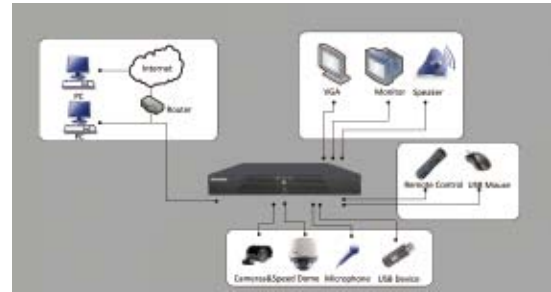
# DS-7204/7208/7216HFI-ST/SN Standalone DVR



DS-7204/7208HFI-ST/SN



DS-7216HFI-ST/SN



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- SMTP, NTP, SADP (IP Finder), DHCP protocols

## Rear Panel of DS-7208HFI-ST/SN



1. USB interface
2. Video out
3. Video in
4. Audio in
5. Audio out
6. VGA interface
7. LAN
8. RS-485 interface
9. 12 VDC power supply interface
10. Power switch
11. GND

## Specifications

	DS-7204HFI-ST/SN	DS-7208HFI-ST/SN	DS-7216HFI-ST/SN
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch	8-ch	16-ch
Video input interface	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio compression	G.711		
Audio input	1-ch, RCA connector (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ), (using audio in)		
<b>Video / Audio output</b>			
VGA output	1-ch, resolution: 1280 × 1024 / 60 Hz, 1024 × 768 / 60 Hz		
CVBS output	1-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480		
Audio output	1-ch, RCA connector (linear, 1 kΩ)		
Recording resolution	4CIF / 2CIF / CIF		
Frame rate	25 fps (P) / 30 fps (N)		
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)		
Stream type	Video, Video & Audio		
Audio bit rate	64 kbps		
Dual-stream	Support		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	1 SATA interface	1 SATA interface	2 SATA interfaces
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-485 half-duplex interface		
USB interface	2, USB 2.0		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 10W (without hard disk or DVD-R/W)	≤ 10W (without hard disk or DVD-R/W)	≤ 15W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	Stand-alone 1U chassis	Stand-alone 1U chassis	19-inch rack-mounted 1U chassis
Dimensions (W x D x H)	315 × 230 × 45 mm	315 × 230 × 45 mm	445 × 290 × 45 mm
Weight	≤ 2kg (without hard disk or DVD-R/W)	≤ 2kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)

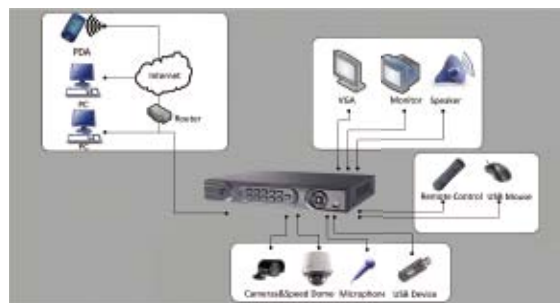
# DS-7204/7208/7216HFI-ST/SE Standalone DVR



DS-7208/7216HFI-ST/SE



DS-7204HFI-ST/SE



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- SMTP, NTP, SADP (IP Finder), DHCP protocols

## Rear Panel of DS-7216HFI-ST/SE



1. USB Interface
2. Video out
3. Video in
4. Audio in, audio out
5. VGA interface
6. LAN
7. RS-485 interface
8. 12 VDC power supply interface
9. Power switch
10. GND

## Specifications

	DS-7204HFI-ST/SE	DS-7208HFI-ST/SE	DS-7216HFI-ST/SE
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch	8-ch	16-ch
Video interface	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio compression	G.711		
Audio input	1-ch, RCA connector (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Recording resolution	4CIF / 2CIF / CIF		
VGA output	1-ch, resolution: 1280 × 1024 / 60 Hz, 1024 × 768 / 60 Hz		
CVBS output	1-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480		
Audio output	1-ch, RCA connector (linear, 1 kΩ)		
Frame rate	25 fps (P) / 30 fps (N)		
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)		
Stream type	Video, Video & Audio		
Audio bit rate	64 kbps		
Dual-stream	Support (sub stream at CIF / QCIF)		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	1 SATA interface	2 SATA interfaces	2 SATA interfaces
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-485 full-duplex interface		
USB interface	2, USB 2.0		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 10W (without hard disk or DVD-R/W)	≤ 10W (without hard disk or DVD-R/W)	≤ 15W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	Stand-alone 1U chassis	19-inch rack-mounted 1U chassis	19-inch rack-mounted 1U chassis
Dimensions (W x D x H)	315 × 230 × 45 mm	445 × 290 × 45 mm	445 × 290 × 45 mm
Weight	≤ 2kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)

# DS-7204/7208/7216HVI-ST Standalone DVR



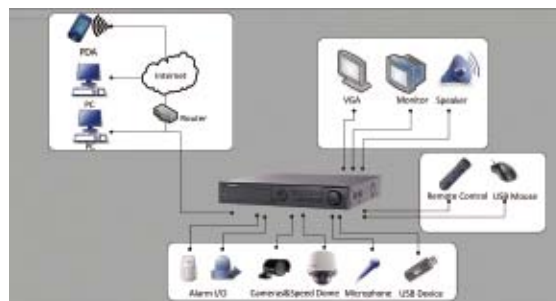
DS-7208HVI-ST



DS-7204HVI-ST



DS-7216HVI-ST



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- SMTP, NTP, SADP (IP Finder), DHCP protocols

## Rear Panel of DS-7216HVI-ST

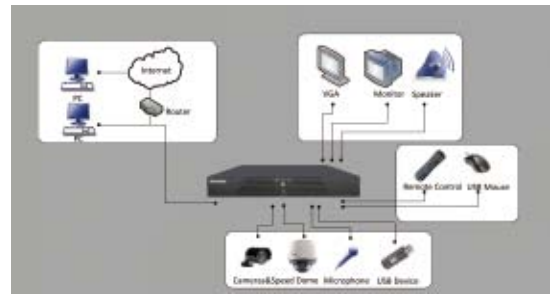


1. Main / spot video out
2. Video in
3. Audio in
4. Line in
5. Audio out
6. VGA interface
7. RS-232 serial interface
8. LAN
9. USB interface
10. RS-485 interface
11. Alarm in, alarm out
12. 12 VDC power supply interface
13. Power switch
14. GND

## Specifications

	DS-7204HVI-ST	DS-7208HVI-ST	DS-7216HVI-ST
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch	8-ch	16-ch
Video interface	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio compression	G.711		
Audio input	4-ch, RCA connector (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
VGA output	1-ch, resolution: 1280 × 1024 /60 Hz, 1024 × 768 /60 Hz		
CVBS output	2-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480		
Audio output	1-ch, RCA connector (linear, 1 kΩ)		
Recording resolution	4CIF / 2CIF / CIF		
Frame rate	Main stream: 4CIF / 2CIF: 12 fps Sub stream: CIF / QCIF@ up to 25 fps (P) / 30 fps (N)	Main stream: 4CIF / 2CIF: 8 fps	Main stream: 4CIF / 2CIF: 6 fps
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)		
Stream type	Video, Video & Audio		
Audio bit rate	64 kbps		
Dual-stream	Support		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	1 SATA interface	2 SATA interfaces	2 SATA interfaces
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1 RJ45 10M / 100M self-adaptive ethernet interface		
Serial interface	1 RS-485 interface, 1 RS-232 interface		
USB interface	2, USB 2.0		
Alarm in	4	8	16
Alarm out	1	4	4
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 10W (without hard disk or DVD-R/W)	≤ 10W (without hard disk or DVD-R/W)	≤ 15W (without hard disk or DVD-R/W)
Working temperature	-10°C ~ +55°C		
Working humidity	10% ~ 90%		
Chassis	Stand-alone 1U chassis	19-inch standard rack-mounted 1U chassis	19-inch standard rack-mounted 1.5U chassis
Dimensions (W x D x H)	315 × 230 × 45 mm	445 × 290 × 45 mm	445 × 390 × 70 mm
Weight	≤ 2kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)	≤ 8kg (without hard disk or DVD-R/W)

# DS-7204/7208/7216HVI-ST/SN Standalone DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- SMTP, NTP, SADP (IP Finder), DHCP protocols

## Rear Panel of DS-7216HVI-ST/SN



1. USB interface
2. Video out
3. Video in
4. Audio in
5. Audio out
6. VGA interface
7. LAN
8. RS-485 interface
9. 12 VDC power supply interface
10. Power switch
11. GND

## Specifications

	DS-7204HVI-ST/SN	DS-7208HVI-ST/SN	DS-7216HVI-ST/SN
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch	8-ch	16-ch
Video input interface	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio compression	G.711		
Audio input	1-ch, RCA connector (2.0 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ), (Using audio in)		
<b>Video / Audio output</b>			
Recording resolution	4CIF / 2CIF / CIF		
VGA output	1-ch, resolution: 1280 × 1024 / 60 Hz, 1024 × 768 / 60 Hz		
CVBS output	1-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480		
Audio output	1-ch, RCA connector (linear, 1 kΩ)		
Frame rate	Main stream: 4CIF / 2CIF: 12 fps Sub stream: CIF / QCIF@ up to 25 fps (P) / 30 fps (N)	Main stream: 4CIF / 2CIF: 8 fps	Main stream: 4CIF / 2CIF: 6 fps
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)		
Stream type	Video, Video & Audio		
Audio bit rate	64 kbps		
Dual-stream	Support		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	1 SATA interface		
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10M / 100M adaptive Ethernet interface		
Serial interface	1 RS-485 interface		
USB interface	2, USB 2.0		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 10W (without hard disk or DVD-R/W)	≤ 10W (without hard disk or DVD-R/W)	≤ 15W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W x D x H)	315 × 230 × 45 mm		
Weight	≤ 2kg (without hard disk or DVD-R/W)		



# DS-7204/7208/7216HVI-ST/SE Standalone DVR



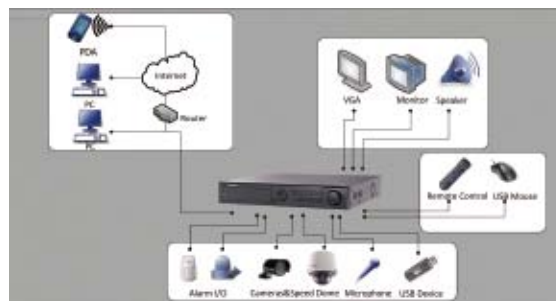
DS-7208HVI-ST/SE



DS-7204HVI-ST/SE



DS-7216HVI-ST/SE



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4/8/16-ch synchronous playback
- SMTP, NTP, SADP (IP Finder), DHCP protocols

## Rear Panel of DS-7216HVI-ST/SE

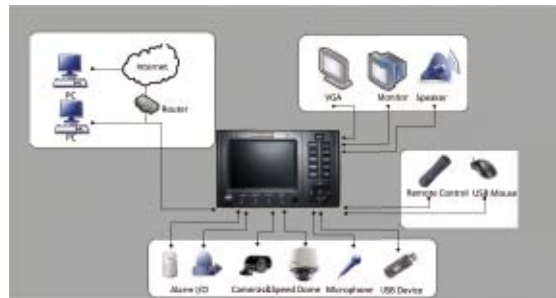


1. USB interface
2. Video out
3. Video in
4. Audio in, audio out
5. VGA interface
6. LAN
7. RS-485 interface
8. 12 VDC power supply interface
9. Power switch
10. GND

## Specifications

	DS-7204HVI-ST/SE	DS-7208HVI-ST/SE	DS-7216HVI-ST/SE
<b>Video / Audio input</b>			
Video compression	H.264		
Analog video input	4-ch	8-ch	16-ch
Video interface	BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive		
Audio compression	G.711		
Audio input	1-ch, RCA connector (2 Vp-p, 1 kΩ)		
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Recording resolution	4CIF / 2CIF / CIF		
VGA output	1-ch, resolution: 1280 × 1024 /60 Hz, 1024 × 768 /60 Hz		
CVBS output	1-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480		
Audio output	1-ch, RCA connector (linear, 1 kΩ)		
Frame rate	Main stream: 4CIF / 2CIF@12 fps, CIF@25 fps (P) / 30 fps (N) Sub stream: CIF / QCIF@ up to 25 fps (P) / 30 fps (N)	Main stream: 4CIF / 2CIF@8 fps, CIF@25 fps (P) / 30 fps (N) Sub stream: CIF / QCIF@ up to 25 fps (P) / 30 fps (N)	Main stream: 4CIF / 2CIF@6 fps, CIF@25 fps (P) / 30 fps (N) Sub stream: CIF / QCIF@ up to 25 fps (P) / 30 fps (N)
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)		
Stream type	Video, Video & Audio		
Audio bit rate	64 kbps		
Dual-stream	Support		
Synchronous playback	4-ch	8-ch	16-ch
<b>Hard disk</b>			
SATA	1 SATA interface	1 SATA interface	2 SATA interfaces
Capacity	Up to 2TB capacity for each disk		
<b>External interface</b>			
Network interface	1, RJ45 10 M / 100 M adaptive ethernet interface		
Serial interface	1 RS-485 interface		
USB interface	2, USB 2.0		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 10W (without hard disk or DVD-R/W)	≤ 10W (without hard disk or DVD-R/W)	≤ 15W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Chassis	Stand-alone 1U chassis	19-inch standard rack-mounted 1U chassis	19-inch standard rack-mounted 1.5U chassis
Dimensions (W x D x H)	315 × 230 × 45 mm	445 × 290 × 45 mm	445 × 390 × 70 mm
Weight	≤ 2kg (without hard disk or DVD-R/W)	≤ 4kg (without hard disk or DVD-R/W)	≤ 8kg (without hard disk or DVD-R/W)

# DS-7204HVI-ST/L Standalone DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4-ch synchronous playback
- SMTP, NTP, SADP (IP Finder), DHCP protocols
- 5 inch LCD display

## Rear Panel of DS-7204HVI-ST/L



- 01, Video in
- 02, Video out
- 03, Audio in
- 04, Line in, audio out
- 05, LAN
- 06, USB interface
- 07, RS-485 interface, alarm in, alarm out
- 08, VGA interface
- 09, RS-232 serial interface
- 10, 12 VDC power supply interface
- 11, Power switch

## Specifications

DS-7204HVI-ST/L	
<b>Video / Audio input</b>	
Video compression	H.264
Analog video input	4-ch, BNC connector (1.0 Vp-p, 75 Ω); PAL / NTSC self-adaptive
Audio compression	G.711
Audio input	4-ch, RCA connector (2.0 Vp-p, 1 kΩ)
<b>Video / Audio output</b>	
VGA output	1-ch, resolution: 1280 × 1024 / 60 Hz
CVBS output	2-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio output	1-ch, RCA connector (linear, 1 kΩ)
Recording resolution	4CIF / 2CIF / CIF
Frame rate	Main stream: 4CIF / 2CIF@ 12 fps, CIF@25 fps (P) / 30 fps (N) Sub stream: CIF / QCIF@ up to 25 fps (P) / 30 fps (N)
Video bit rate	32 kbps ~ 2048 kbps, or user defined (max. 3072 kbps)
Stream type	Video, Video & Audio
Audio bit rate	64 kbps
Dual-stream	Support
Synchronous playback	4-ch
Voice talk input	1-ch RCA (2.0 Vp-p, 1 kΩ)
<b>Hard disk</b>	
SATA	1 SATA interface
Capacity	Up to 2TB capacity
<b>External interface</b>	
Network interface	1, RJ45 10 M / 100 M self-adaptive ethernet interface
Serial interface	1 RS-485 interface, 1 RS-232 interface
USB interface	2, USB 2.0
Alarm in	4
Alarm out	1
<b>General</b>	
Power supply	12 VDC
Consumption	≤ 10W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C
Working humidity	10% ~ 90%
Chassis	Chassis for ATM DVR
Dimensions (W x D x H)	180 × 280 × 180 mm
Weight	≤ 5kg (without hard disk or DVD-R/W)

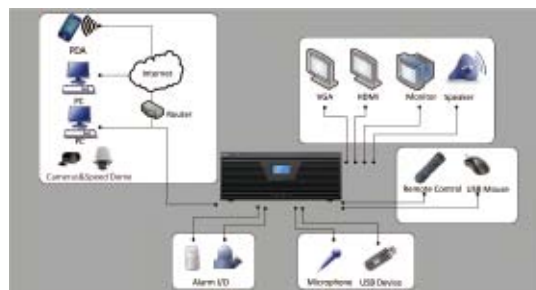
# NVR



# NVR Selection Chart

	Video&Audio Compression	IP Video Input	Recording/ Encoding/ Decoding resolution	HDMI Output	Video loop out	Network Interface	RAID	HDD	eSATA	USB2.0 interface	Chassis	Page
DS-9664NI-RH		√	Up to 5 MP	√		Dual 1000M	√	16 SATA	√	4	4U 19"	P.116
DS-9608/16/32NI-ST		√	Up to 5 MP	√		Dual 1000M		8 SATA	√	2	2U 19"	P.117
DS-9604/08/16NI-RH		√	Up to 1080p	√		1000M	√	8 SATA	√	3	2U 19"	P.118
DS-9508/16NI-R		√	Up to 5 MP			1000M	√	8 SATA	√	2	2U 19"	P.119
DS-8608/16/32NI-ST		√	Up to 5 MP	√		1000M		8 SATA	√	2	2U 19"	P.120
DS-7608/16NI-ST		√	Up to 5 MP	√		1000M		2 SATA		2	1U 19"	P.121
DS-7604/08NI-S		√	Up to 5 MP			100M		1 SATA		2	Standalone 1U	P.122

# DS-9664NI-RH High-end Embedded NVR



## Key features

- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- RAID0,1,5,10 supported
- 16 SATA interfaces
- Dual Gigabit network interfaces
- Up to dual power supplies

## Specifications

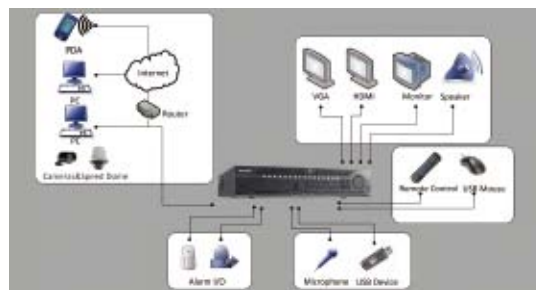
DS-9664NI-RH	
<b>Video/Audio input</b>	
IP video input	64-ch
Voice talk input	Mic / Line In, 3.5mm connector
<b>Video/Audio output</b>	
HDMI / VGA output	1-ch, resolution: 1920 x 1080P / 60Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
Encoding resolution	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Audio output	1-ch, 3.5 mm connector
Synchronous playback	4-ch 4CIF / 1-CH 5MP / 3MP / 1080P / UXGA / 720P
<b>Hard disk</b>	
SATA	16 SATA interfaces
eSATA	1 eSATA interface
Capacity	Up to 3TB capacity for each disk
<b>Disk array</b>	
Array type	RAID0, RAID1, RAID5, RAID10
<b>External interface</b>	
Network interface	2 RJ-45, 10/100/1000Mbps self-adaptive Ethernet interface
Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)
USB interface	4, USB 2.0
Alarm in	16
Alarm out	8
<b>General</b>	
Power supply	100 ~ 240 VAC, 6.3 A, 50~60 Hz (dual power supplies optional)
Consumption	Single Power Supply ≤ 85 W Dual power supplies ≤ 115 W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C
Working humidity	10% ~ 90%
Dimensions (W x D x H)	442 x 513 x 155 mm
Weight	≤ 18 Kg ( without hard disk or DVD-R/W )

## Rear Panel of DS-9664NI-RH



1. RS-485 serial interface, keyboard interface, alarm in, alarm out
2. Termination switch
3. USB interface
4. VGA interface
5. RS-232 serial interface
6. HDMI interface
7. LAN1, LAN2 network interface
8. eSATA/USB interface
9. Line in
10. Line out
11. Mic audio in
12. GND
13. 100 ~ 240V AC input
14. Fan modules

# DS-9608/9616/9632NI-ST High-end Embedded NVR



## Key features

- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- Up to 8 SATA interfaces
- HDD quota and group management
- Dual gigabit network interfaces

## Rear Panel of DS-9608/9616/9632NI-ST

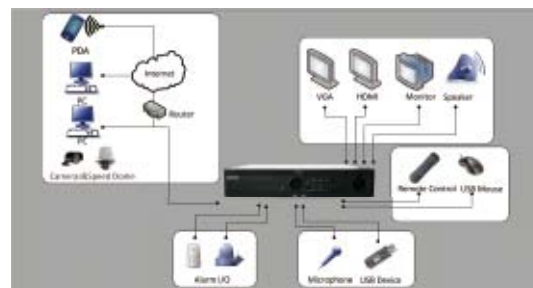


1. Video out
2. Audio out
3. Line in
4. RS-232 serial interface
5. VGA interface
6. HDMI interface
7. eSATA interface
8. LAN1, LAN2 network interface
9. Termination switch
10. RS-485 serial interface, keyboard interface, alarm in, alarm out
11. GND
12. 100-240 VAC power input
13. Power switch

## Specifications

	DS-9608NI-ST	DS-9616NI-ST	DS-9632NI-ST
<b>Video / Audio input</b>			
IP video input	8-ch	16-ch	32-ch
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Recording resolution	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)		
HDMI output	1-ch, resolution: 1920 × 1080P / 60Hz, 1920×1080P / 50Hz, 1600 × 1200 / 60Hz, 1280 × 1024 / 60Hz, 1280 × 720 / 60Hz, 1024 × 768 / 60Hz		
VGA output	1-ch, resolution: 1920 × 1080P / 60Hz, 1600 × 1200 / 60Hz, 1280 × 1024 / 60Hz, 1280 × 720 / 60Hz, 1024 × 768 / 60Hz		
Audio output	2-ch, BNC (Linear, 600 Ω)		
Playback resolution	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
Synchronous playback	8-ch	16-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	2, 10M / 100M / 1000M self-adaptive Ethernet interface		
Serial interfaces	RS-232, RS-485, RS-485 keyboard		
USB interface	2 x USB2.0		
Alarm in	16		
Alarm out	4		
<b>General</b>			
Power supply	100-240 VAC, 6.3A, 50-60Hz		
Consumption	≤ 35W	≤ 40W	≤ 45W
Working temperature	-10°C ~ +55°C (14 °F ~ 131 °F)		
Working humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W x D x H)	445 × 470 × 90 mm (17.52" × 18.5" × 3.54")		
Weight	≤ 8 kg (17.64 lb) ( without hard disk or DVD-R/W )		

# DS-9604/9608/9612/9616NI-RH High-end Embedded NVR



## Key features

- Third-party network cameras supported
- Up to 1920×1080P resolution recording
- HDMI output at up to 1920×1080P resolution
- RAID0,1,5,10 supported
- 8 SATA interfaces
- HDD with hot-swap capability

Rear Panel of DS-9600NI-RH

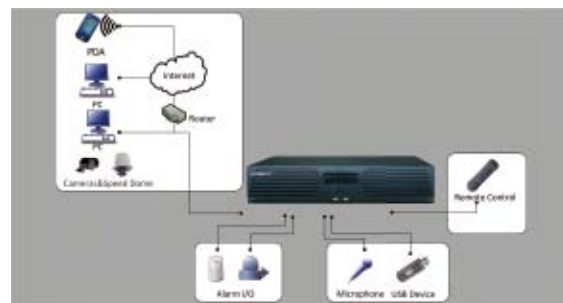


1. Video out (spot), audio out (spot)
2. Video out, audio out
3. Line in
4. VGA output
5. RS-232 serial interface
6. HDMI output
7. eSATA interface
8. LAN (10/100/1000Mbps Self-adaptive UTP Ethernet interface)
9. USB interface
10. RS-485 matched resistance switch
11. RS-485 serial interface, RS485 keyboard port, alarm in, alarm out
12. GND
13. 100 ~ 240VAC Power Input

## Specifications

	DS-9604NI-RH	DS-9608NI-RH	DS-9612NI-RH	DS-9616NI-RH
<b>Video / Audio input</b>				
IP video input	4-ch 4CIF /2-ch 720P /1-ch UXGA /1080P Real Time, or 2-ch UXGA /1080P not Real Time	8-ch 4CIF /4-ch 720P /2-ch UXGA /1080P Real Time, or 4-ch UXGA /1080P not Real Time	12-ch 4CIF /6-ch 720P /3-ch UXGA /1080P Real Time, or 6-ch UXGA /1080P not Real Time	16-ch 4CIF /8-ch 720P /4-ch UXGA /1080P Real Time, or 8-ch UXGA /1080P not Real Time
Voice talk input	2-ch, BNC (2.0 Vp-p, 1 kΩ)			
<b>Video / Audio output</b>				
CVBS output	2-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576(PAL); 704 × 480(NTSC)			
HDMI output	1-ch, resolution: 1920 × 1080 /60Hz, 1280 × 1024 /60Hz, 1024 × 768 /60Hz			
VGA output	1-ch, resolution: 1280 × 1024 /60Hz, 1024 × 768 /70Hz, 1024 × 768 /60Hz			
Audio output	2-ch, BNC(Linear Electrical Level, 600 Ω)			
Synchronous playback	4-ch	8-ch	12-ch	16-ch
<b>Hard disk</b>				
SATA	8 SATA interfaces			
eSATA	1 eSATA interface			
Capacity	Up to 2TB capacity for each disk			
<b>Disk array</b>				
Array type	RAID0, RAID1, RAID5, RAID10			
Number of array	8			
Number of virtual disk	8			
<b>External interface</b>				
Network interface	1RJ-45, 10/100/1000Mbps self-adaptive Ethernet interface			
Serial interface	1 RS-232 interface (for parameters configuration, maintenance , transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control)			
USB interface	3, USB2.0			
Alarm in	16			
Alarm out	4			
<b>General</b>				
Power supply	100~240 VAC, 6.3A, 50~60Hz			
Consumption	≤ 70 W (without hard disk or DVD-R/W)			
Working temperature	-10°C ~ +55°C			
Working humidity	10% ~ 90%			
Dimensions (W x D x H)	450 × 470 × 90 mm			
Weight	≤ 8 kg ( without hard disk or DVD-R/W)			

# DS-9508/9516NI-R Embedded NVR



## Key features

- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- RAID0,1,5,10 supported
- 8 SATA interfaces
- HDD with hot-swap capability

## Rear Panel of DS-9516NI-R



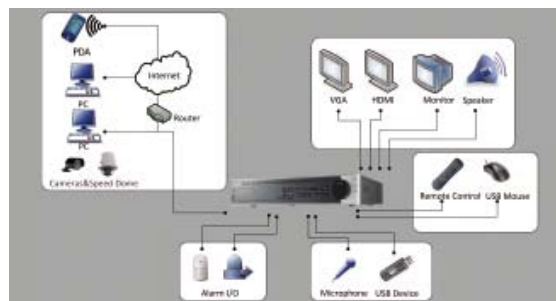
1. Reset
2. RS-232 serial interface
3. LAN (10/100/1000Mbps self-adaptive UTP ethernet interface)
4. eSATA backup/extended storage interface(optional)
5. RS-485 matched resistance switch
6. RS-485 serial interface, alarm in, alarm out
7. GND
8. 100~240 VAC power input

## Specifications

	DS-9508NI-R	DS-9516NI-R
<b>Video / Audio input</b>		
IP video input	8-ch 4CIF /4-ch 720P /2-ch UXGA /1080P real time, or 4-ch UXGA /1080P /2-ch 5 Megapixel not real time	16-ch 4CIF /8-ch 720P /4-ch UXGA /1080P real time, or 8-ch UXGA /1080P /4-ch 5 Megapixel not real time
<b>Hard disk</b>		
SATA	8 SATA interfaces	
eSATA	Optional	
Capacity	Up to 2TB capacity for each disk	
<b>Disk array</b>		
Array type	RAID0, RAID1, RAID5, RAID10	
Number of array	8	
Number of virtual disk	8	
<b>External interface</b>		
Network interface	1,RJ-45, 10 /100 /1000Mbps adaptive Ethernet interface	
Serial interface	1 RS-232 interface (for parameters configuration, maintenance , transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control)	
USB interface	2, USB 2.0	
Alarm in	16	
Alarm out	4	
<b>General</b>		
Power supply	100~240 VAC, 6.3A, 50~60Hz	
Consumption	≤ 20W (without hard disk or DVD-R/W)	
Working temperature	-10 °C ~ +55 °C	
Working humidity	10%~90%	
Chassis	19-inch rack-mounted 2U chassis	
Dimensions (W x D x H)	450 × 470 ×90 mm	
Weight	≤ 8 kg ( without hard disk or DVD-R/W )	



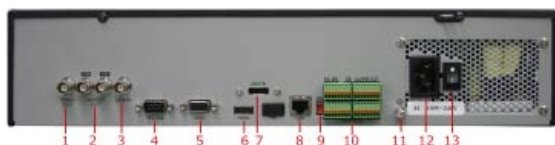
# DS-8608/8616/8632NI-ST Embedded NVR



## Key features

- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920x1080P resolution
- Up to 8 SATA interfaces
- HDD quota and group management

## Rear Panel of DS-8600NI-ST

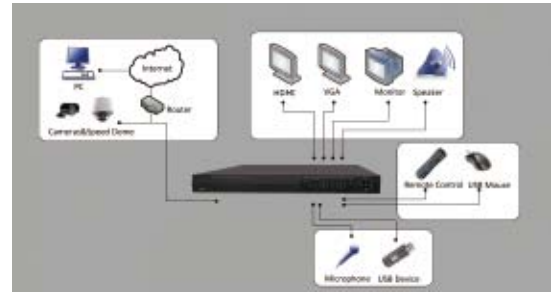


1. Video out
2. CVBS audio out, VGA audio out
3. Line in
4. RS-232 serial interface
5. VGA interface
6. HDMI interface
7. eSATA interface
8. LAN network interface
9. Termination switch
10. RS-485 serial interface, keyboard interface, alarm in, alarm out
11. GND
12. 100~240VAC power input
13. Power switch

## Specifications

	DS-8608NI-ST	DS-8616NI-ST	DS-8632NI-ST
<b>Video / Audio input</b>			
IP video input	8-ch	16-ch	32-ch
Voice talk input	1-ch, BNC (2.0 Vp-p, 1kΩ)		
<b>Video / Audio output</b>			
Recording resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)		
HDMI output	1-ch, resolution: 1920 × 1080P /60Hz, 1920 × 1080P /50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
Audio output	2-ch, BNC (Linear, 600Ω)		
Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
Synchronous playback	8-ch	16-ch	16-ch
<b>Hard disk</b>			
SATA	Up to 8 SATA interfaces		
eSATA	1 eSATA interface		
Capacity	Up to 4TB capacity for each disk		
<b>External interface</b>			
Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance , transparent channel);1 RS-485 interface (reserved);1 RS-485 keyboard interface (for special keyboard control)		
USB interface	2, USB 2.0		
Alarm in	16		
Alarm out	4		
<b>General</b>			
Power supply	100~240 VAC, 6.3A, 50~60Hz		
Consumption	≤ 35W	≤ 40W	≤ 45W
Working temperature	-10 °C ~ +55 °C		
Working humidity	10%~90%		
Chassis	19-inch rack-mounted 2U chassis		
Dimensions (W × D × H)	445 × 470 ×90 mm (17.52" ×18.5"× 3.54")		
Weight	≤ 8 kg ( without hard disk or DVD-R/W )		

# DS-7608/7616NI-ST Embedded NVR



## Key features

- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- 8/16-ch synchronous playback
- HDD quota and group management

## Rear Panel of DS-7600NI-ST



1. Video out
2. Audio out
3. Audio in
4. RS-232
5. VGA interface
6. HDMI interface
7. USB interface
8. LAN
9. RS-485 interface, alarm in, alarm out
10. 12 VDC power supply
11. Switch

## Specifications

	DS-7608NI-ST	DS-7616NI-ST
<b>Video / Audio input</b>		
IP video input	8-ch	16-ch
Audio in	1-ch, BNC (2.0 Vp-p, 1kΩ) (Voice talk input)	
<b>Video / Audio output</b>		
Recording resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF	
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)	
HDMI output	1-ch, resolution: 1920 × 1080P /60Hz, 1920 × 1080P /50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
Audio output	1-ch, BNC (Linear, 600Ω)	
Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF	
Synchronous playback	8-ch	16-ch
<b>Hard disk</b>		
SATA	2 SATA interfaces	
Capacity	Up to 4TB capacity for each disk	
<b>External interface</b>		
Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface	
Serial interface	1 RS-232 interface (for parameters configuration, maintenance , transparent channel);1 RS-485 interface (reserved);	
USB interface	2, USB 2.0	
Alarm in	4	
Alarm out	2	
<b>General</b>		
Power supply	12 VDC	
Consumption	≤ 13 W (without hard disk or DVD-R/W)	
Working temperature	-10 °C ~ +55 °C	
Working humidity	10%~90%	
Chassis	19-ich rack-mounted 1U chassis	
Dimensions (W x D x H)	445 × 261 ×44.5 mm	
Weight	≤ 4 Kg ( without hard disk or DVD-R/W )	

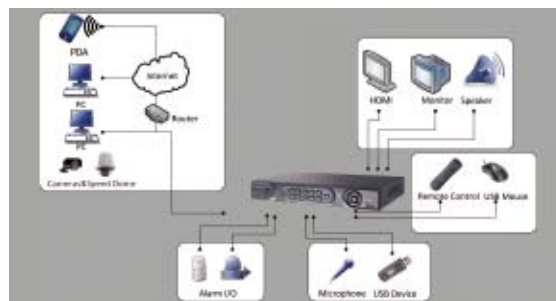
# DS-7604/7608NI-S Embedded NVR



DS-7608NI-S



DS-7604NI-S



## Key features

- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- VGA output at up to 1024×768 resolution
- 4-ch synchronous playback
- HDD group management

## Rear Panel of DS-7604NI-S



1. USB interface
2. Video out
3. Audio in
4. Audio out
5. LAN
6. RS-485 interface, alarm in, alarm out
7. Power switch
8. 12VDC power supply
9. GND

## Specifications

	DS-7604NI-S	DS-7608NI-S
<b>Video / Audio input</b>		
IP Video input	4-ch 4CIF real time or 2-ch 720P / UXGA / 1080P real time or 1-ch 2560×1920 not real time	8-ch 4CIF real time or 4-ch 720P / UXGA / 1080P real time or 2-ch 2560×1920 not real time
Audio input	1-ch, RCA(2Vp-p, 1kΩ), for voice talk input	
<b>Video/Audio output</b>		
Live view resolution	PAL:704×576, NTSC:704×480	
VGA output	1-ch, resolution:1024×768/60Hz	
Playback resolution	2560×1920/UXGA/1080P/720P/4CIF/VGA/DCIF/2CIF/CIF/QCIF	
Video output	1-ch, BNC (PAL: 704×576, NTSC: 704×480)	
Frame rate	1/16~25 fps (P) / 30fps (N)	
Video bit rate	32 Kbps~2048 Kbps, or user defined (Max. 16384 Kbps)	
Audio output	1-ch, RCA(2Vp-p, 1kΩ), for voice talk output	
Audio bit rate	16kbps	
Synchronous playback	4-ch	
<b>Hard disk</b>		
Type	1 SATA interface	2 SATA interfaces
Capacity	Up to 2TB capacity for each disk	
<b>External interface</b>		
Network interface	1, RJ45 10M/100M adaptive Ethernet interface	
Serial interface	1 RS-485 interface	
USB interface	2, USB2.0	
Alarm in	4	
Alarm out	1	
<b>General</b>		
Power supply	12 VDC	
Consumption	≤ 12W (without hard disk or DVD-R/W)	
Working temperature	-10 °C ~ +55 °C	
Working humidity	10%~90%	
Chassis	19-inch rack mounted 1U chassis	
Dimensions (W x D x H)	315 × 230 ×45 mm	445 × 290 × 44 mm
Weight	≤ 2.5Kg (without HDD or DVD-R/W)	≤ 8 Kg (without HDD or DVD-R/W)

# SPECIAL DVR

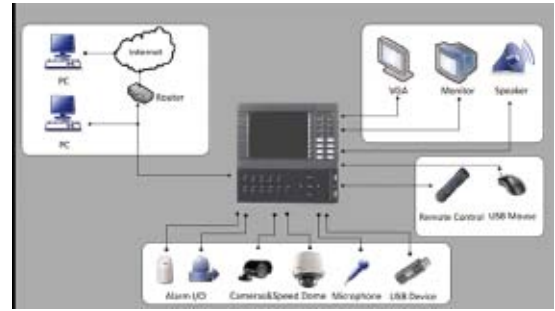


# Special DVR Selection Chart

ATM DVR	Video&Audio Compression	IP Video Input	Recording/ Encoding/ Decoding resolution	HDMI Output	Video loop out	Network Interface	RAID	HDD	eSATA	USB2.0 interface	Chassis	Page
DS-8104AH(L)-ST	√		CIF real-time			100 M		4 SATA	√	2	180*280*180 mm	P.126
DS-8104AHF(L)-ST	√		4CIF real-time			100 M		4 SATA	√	2	180*280*180 mm	P.125

Mobile DVR	Encode Resolution	Video/Audio Input	Video Output	Audio Output	HDD Interface	GPS	3G Module	Wi-Fi Module	Alarm I/O	eSATA	Power supply	Page
DS-8104HMI-ST	CIF: 25fps(P)/30fps(N)	4-ch/4-ch	1 CVBS	1 CVBS	2 x 2.5" SATA	Built-in	Optional	Optional	7/2	N/A	6 - 36 VDC	P.127
DS-8106HMI-ST	CIF: 25fps(P)/30fps(N)	6-ch/6-ch	1 CVBS	1 CVBS	2 x 2.5" SATA	Built-in	Optional	Optional	7/2	N/A	6 - 36 VDC	P.127
DS-8104HMF-ST	4CIF: 25fps(P)/30fps(N)	4-ch/4-ch	1 CVBS	1 CVBS	2 x 2.5" SATA	Built-in	Optional	Optional	7/2	N/A	6 - 36 VDC	P.129
DS-8104HMF-T	4CIF: 25fps(P)/30fps(N)	4-ch/4-ch	2 CVBS	2 CVBS	2 x 2.5" SATA	Built-in	Optional	Optional	7/2	Optional	6 - 36 VDC	P.130
DS-8108HMF-T	4CIF: 25fps(P)/30fps(N)	8-ch/8-ch	2 CVBS	2 CVBS	2 x 2.5" SATA	Built-in	Optional	Optional	7/2	Optional	6 - 36 VDC	P.130
DS-8112HMF-T	4CIF: 25fps(P)/30fps(N)	12-ch/12-ch	2 CVBS	2 CVBS	2 x 2.5" SATA	Built-in	Optional	Optional	7/2	Optional	6 - 36 VDC	P.130

# DS-8104/8108AHF(L)I-ST ATM & POS DVR



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- VGA output at up to 1280×1024 resolution
- Dual-stream
- 4 SATA interfaces
- HDD group management

## Rear Panel of DS-8108AHF(L)I-ST

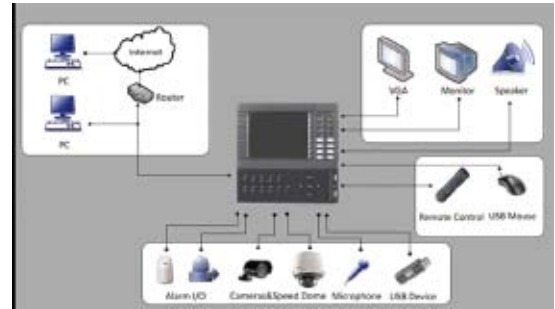


1. Video in
2. Audio in
3. Video out, audio out, line in
4. RS-232 interface
5. VGA
6. LAN interface
7. eSATA backup / extended storage interface(optional)
8. RS-485 interface
9. Alarm in, alarm out
10. 12 VDC power output for camera
11. Power switch
12. GND

## Specifications

	DS-8104AHF(L)I-ST	DS-8108AHF(L)I-ST
<b>Video / Audio input</b>		
Analog video input	4-ch BNC connector (1.0 Vp-p, 75 Ω); PAL/NTSC self-adaptive	8-ch
Audio input	4-ch BNC connector (2.0 Vp-p, 1 kΩ)	8-ch
Voice talk input	1-ch, BNC connector (2.0 Vp-p, 1 kΩ)	
<b>Video / Audio output</b>		
CVBS output	1-ch, BNC connector (1.0 Vp-p, 75 Ω); Resolution: PAL: 704×576, NTSC: 704×480	
VGA output	1-ch, resolution: 1280×1024 / 60 Hz , 1024×768 / 60 Hz	
LCD Display	Available on DS-8104AHFLI-ST and DS-8108AHFLI-ST models	
Audio output	1-ch, BNC connector (linear, 600 Ω)	
<b>Video / Audio encoding</b>		
Video compression	H.264	
Recording resolution	4CIF/ DCIF / 2CIF / CIF / QCIF	
Frame rate	25 fps(P) /30 fps(N)	
Video bit rate	32 Kbps~2048 Kbps, or user defined (max. 3072 Kbps)	
Stream type	Video, Video & Audio	
Dual stream	Support	
Audio compression	OggVorbis	
Audio bit rate	16kbps	
Synchronous playback	2-ch	4-ch
<b>Hard disk</b>		
SATA	4 SATA interfaces	
eSATA	1 eSATA interface (optional)	
Capacity	Up to 2TB capacity for each disk	
<b>External interface</b>		
Network interface	1, RJ45 10M/100M/1000M self-adaptive ethernet interface	
Serial interface	1 RS-485 interface, 1 RS-232 interface	
USB interface	2 x USB2.0	
Alarm in	9	
Alarm out	4	
<b>General</b>		
Power supply	100 ~ 240 VAC, 6.3A, 50~60 Hz	
Consumption	≤ 40W (without hard disk or DVD-R/W)	≤ 45W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~+55 °C	
Working humidity	10%~90%	
Chassis	Chassis for ATM DVR	
Dimensions (W × D × H)	180 × 280 × 180 mm	
Weight	≤ 5kg (without hard disk or DVD-R/W)	

# DS-8104/8108AH(L)-ST ATM & POS DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- VGA output at up to 1024 × 768 resolution
- Dual-stream
- 4 SATA interfaces
- HDD group management

## Rear Panel of DS-8108AH(L)-ST

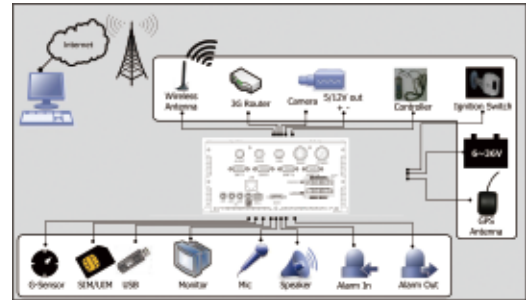


1. Video in
2. Audio in
3. Video out, audio out, line in
4. RS-232 interface
5. VGA
6. LAN interface
7. eSATA backup / extended storage interface(optional)
8. RS-485 interface
9. Alarm in, alarm out
10. 12 VDC power output for camera
11. Power switch
12. GND

## Specifications

	DS-8104AH(L)-ST	DS-8108AH(L)-ST
<b>Video / Audio input</b>		
Video compression	H.264	
Analog video input	4-ch, BNC (1.0 Vp-p, 75 Ω) PAL / NTSC self-adaptive	8-ch, BNC (1.0 Vp-p, 75 Ω) PAL / NTSC self-adaptive
Audio compression	OggVorbis	
Audio input	4-ch, BNC (2.0 Vp-p, 1 kΩ)	8-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)	
<b>Video / Audio output</b>		
Preview resolution	PAL: 704 × 576, NTSC: 704 × 480	
CVBS output	1, BNC (1.0 Vp-p, 75 Ω), Resolution: PAL: 704 × 576, NTSC: 704 × 480	
VGA output	1, Resolution: 1024 × 768 /60 Hz	
LCD display	Available on DS-8104AHLI-ST and DS-8108AHLI-ST models	
Encoding resolution	Channel 1: 4CIF / 2CIF / CIF / QCIF Channel 2-4: CIF / QCIF	Channel 1: 4CIF / 2CIF / CIF / QCIF Channel 2-8: CIF / QCIF
Frame rate	25 fps (P) / 30 fps (N)	
Video bit rate	32 Kbps - 2048 Kbps, or user defined (max. 3072 Kbps)	
Audio output	1-ch, BNC (linear electrical level, 600 Ω)	
Audio bit rate	64 Kbps	
Dual stream	Support	
Stream type	Video, Video & Audio	
Synchronous playback	4-ch	
<b>Hard disk</b>		
SATA	4 SATA interfaces	
eSATA	1 eSATA interface (optional)	
Capacity	Up to 2 TB capacity for each disk	
<b>External interface</b>		
Network interface	1, RJ45 10M / 100M self-adaptive ethernet interface	
Serial interface	1 RS-232 interface, 1 RS-485 interface	
USB interface	2, USB 2.0	
Alarm in	9	
Alarm out	4	
<b>General</b>		
Power supply	100 - 240 VAC, 6.3A, 50 - 60Hz	
Consumption	≤ 40W (without hard disk or DVD-R/W)	≤ 45W (without hard disk or DVD-R/W)
Working temperature	-10 °C ~ +55 °C	
Working humidity	10% ~ 90%	
Dimensions (W × D × H)	180 × 280 × 180 mm	
Weight	≤ 5kg (without hard disk or DVD-R/W)	

# DS-8104/8106HMI-ST Mobile DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- 2x2.5-inch SATA interfaces
- Patented hard disk vibration-proof and bracing technology
- Built-in 3G (WCDMA/cdma2000) module (optional)
- Built-in GPS module

## Panel of DS-8106HMI-ST



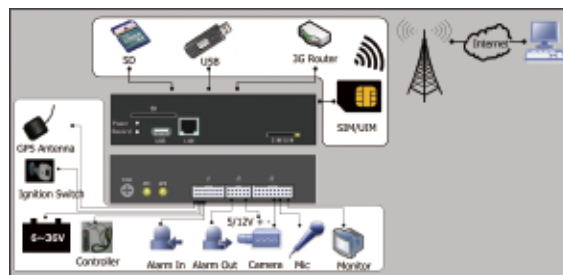
1. CH1, CH2, CH3, CH4: 4-pin aviation plug for audio & video input and voltage output of channel 1-4.
2. CH5-CH8: DB15-to-aviation plug for audio & video input and voltage output of channel 5-8.
3. OUT: 4-pin aviation plug for video output and audio output and voltage output.
4. RS232: 5-pin aviation plug for RS-232 and voltage output.
5. RS422: 10-pin aviation plug for RS-422 and voltage output.
6. POWER: 6-pin aviation plug for voltage input and KEY startup interface.
7. GPS: GPS antenna.
8. 3G (ANT1 ANT2): Wireless network main/aux antenna.
9. WIFI (ANT4): WIFI antenna (reserved).
10. SIM/SD CARD: SD/SDHC card interface; SIM/UM card interface.
11. USB: USB interface.
12. LAN: Network interface.
13. ALARM IN (1-3): Alarm input interface.
14. SENSOR IN (4-8): Driving status interface. Channel 8 is reserved.
15. ALARM OUT (1A 1B 2A 2B): Alarm (relay) output interface.
16. Common terminal for alarm input and driving status input.

## Specifications

	DS-8104HMI-ST	DS-8106HMI-ST
<b>Video / Audio input</b>		
Analog video input	4-ch Aviation plug (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive	6-ch
Audio input	4-ch Aviation plug (linear electrical level, 1 KΩ)	6-ch
<b>Video / Audio output</b>		
Video Output	1-ch CVBS video output, aviation plug (1.0 Vp-p, 75 Ω) Resolution: PAL: 704 × 576, NTSC: 704 × 480	
Audio Output	1-ch, aviation plug (linear electrical level, 600 Ω)	
<b>Video / Audio encoding</b>		
Video compression	H.264	
Encoding resolution	Channel1: 4CIF / 2CIF / CIF Channel2-4: CIF	Channel1-2: 4CIF / 2CIF / CIF Channel3-6: CIF
Video frame rate	PAL: 1-25 fps, NTSC: 1-30 fp	
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 4 Mbps)	
Stream type	Video, Video & Audio	
Audio compression	G.711	
Audio bit rate	16 Kbps	
<b>Hard disk</b>		
HDD type	2, 2.5-inch SATA interfaces for Pluggable HDD/SSD disks	
HDD patent	Patented hard disk vibration reduction technology	
Data backup	Backup by pluggable HDD/USB devices	
<b>Wireless Transmission</b>		
3G	Built-in cdma2000, WCDMA, TD-SCDMA module (optional)	
WIFI	Built-in WIFI module, 802.11 b/g/n, 2.4 GHz (reserved)	
<b>GPS</b>		
GPS	Built-in high-sensitivity GPS chip	
<b>External interface</b>		
Driving Information Collection	4-ch high/low-level signal input, 1-ch pulse signal input(reserved)	
Alarm In	3-ch high/low-level signal input	
Alarm Out	2-ch relay output	
LAN	1 RJ-45 network interface	
Antenna interface	SMA interfaces for 2 3G antennas, 1 WIFI antennas and 1 GPS antenna	
USB/eSATA Interface	1 USB 2.0 interface	
Serial Interface	1 aviation plug for RS-232; 1 aviation plug for RS-422	
SIM/UM	1 standard SIM/UM slot	
SD/SDHC	1 standard SD/SDHC slot	
<b>General</b>		
Operating System	Embedded Linux Operating System	
Power Supply	Input: +6 ~ +36 VDC; Output: +12 VDC / 2A, +5 VDC / 2A	
Operating Mode	IR Remote Control	
Power Consumption	≤ 10W	
Working Temperature	-15 °C ~ +55 °C (5 °F ~ 131 °F)	
Working Humidity	10% ~ 95%	
Size (W×D×H)	236 × 210× 73 mm (9.3 × 8.3× 2.9 in)	
Weight	≤ 3 kg / 6.6 lb	



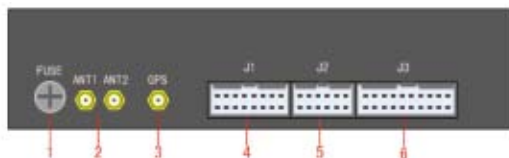
# DS-8104HMI-M Mobile DVR



## Key features

- H.264 video compression
- Up to 4CIF resolution recording
- SD card slot for on-board storage
- Patented hard disk vibration-proof and bracing technology
- Built-in 3G (WCDMA/cdma2000) module (optional)

## Panel of DS-8104HMI-M



1. Power supply fuse
2. Antenna 1, Antenna 2
3. GPS antenna interface
4. Audio input and output
5. Power, startup control and linear control
6. Alarm input & output, RS485

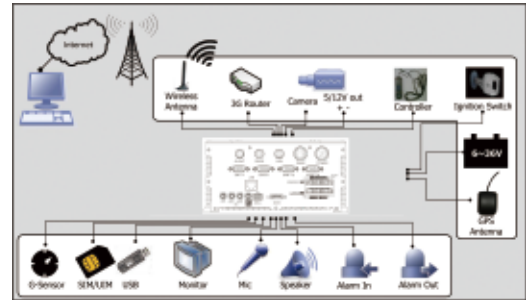


1. Power indicator, record status indicator
2. SD card interface
3. USB 2.0
4. LAN
5. Debug interface
6. SIM/UM interface
7. Power ON/OFF

## Specifications

DS-8104HMI-M	
<b>Video / Audio input</b>	
Video compression	H.264
Video input	4-ch, Aviation Connector(1.0 Vp-p, 75 Ω)
Audio compression	OggVorbis, 16 Kbps
Audio input	2-ch, Aviation Interface (linear electrical level, 1 kΩ)
<b>Video / Audio output</b>	
Preview resolution	PAL: 704 × 576, NTSC: 704 × 480
Encoding resolution	4CIF/DCIF/2CIF/CIF/QCIF
Video output	1-ch, (PAL/NTSC self-adaptive; 1.0 Vp-p, 75 Ω)
Frame rate	4CIF:6 fps DCIF:12 fps 2CIF:15 fps CIF/QCIF:25 fps(P) /30 fps(N)
Video bit rate	32 Kbps~2048 Kbps, or user defined (Max. 8 Mbps)
Audio output	1-ch, BNC(2.0~2.4 Vp-p, 600 Ω)
Stream Type	Video, Video & Audio
<b>External interface</b>	
Network interface	1, RJ45 10M/100M self-adaptive ethernet interface
3G antenna interface	2 antennas, SMA interface
USB interface	1, USB 2.0
SD Card Interface	Support 1 SD/SDHC card for recording
Serial interface	1, RS-485 interface
Alarm in	7-ch input, the 8th channel is reserved
Alarm out	2-ch
GPS	Built-in module, 1 antenna, SMA interface (optional)
<b>General</b>	
Power input	6~36 VDC
Power output	12 VDC /5 VDC, built-in resettable fuse
Power-off Delay	Shut down delay after ignition off (from 5min to 6h)
Schedule On/Off:	Daily scheduled power on/off (00:00~24:00)
Consumption	≤ 5 W (without SD cards)
Working temperature	-15 °C ~ +55 °C
Working humidity	10%~95%
Dimensions (W × D × H)	105 × 155 × 45 mm
Weight	≤ 1 kg (without SD card)

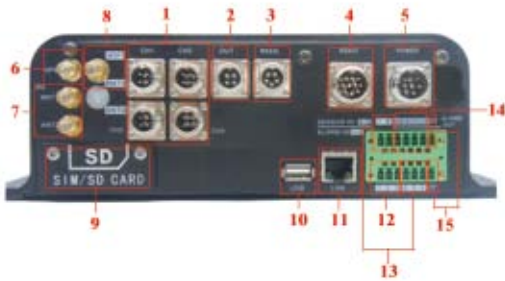
# DS-8104HMFI-ST Mobile DVR



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- 2x2.5-inch SATA interfaces
- Patented hard disk vibration-proof and bracing technology
- Built-in 3G (WCDMA/cdma2000) module (optional)
- Built-in GPS module

## Panel of DS-8104HMFI-ST

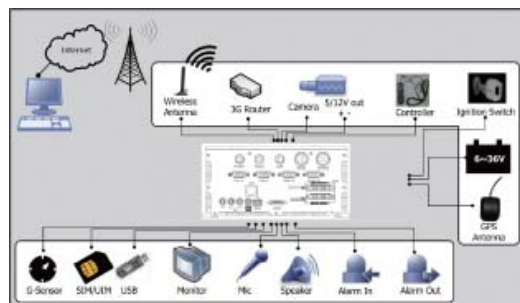


1. CH1, CH2, CH3, CH4: 4-pin aviation plug for audio & video input and voltage output of channel 1-4.
2. OUT: 4-pin aviation plug for video output and audio output and voltage output.
3. RS232: 5-pin aviation plug for RS-232 and voltage output.
4. RS422: 10-pin aviation plug for RS-422 and voltage output.
5. POWER: 6-pin aviation plug for voltage input and KEY startup interface.
6. GPS: GPS antenna.
7. 3G (ANT1 ANT2): Wireless network main/aux antenna.
8. WIFI (ANT4): WIFI antenna (reserved).
9. SIM/SD CARD: SD/SDHC card interface; SIM/UM card interface.
10. USB: USB interface.
11. LAN: Network interface.
12. ALARM IN (1-3): Alarm input interface.
13. SENSOR IN (4-8): Driving status interface. Channel 8 is reserved.
14. ALARM OUT (1A 1B 2A 2B): Alarm (relay) output interface.
15. Common terminal for alarm input and driving status input.

## Specifications

DS-8104HMFI-ST	
<b>Video / Audio input</b>	
Analog video input	4-ch Aviation plug (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
Audio input	4-ch Aviation plug (linear electrical level, 1 KΩ)
<b>Video / Audio output</b>	
Video Output	1-ch CVBS video output, aviation plug (1.0 Vp-p, 75 Ω) Resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio Output	1-ch, aviation plug (linear electrical level, 600 Ω)
<b>Video / Audio encoding</b>	
Video compression	H.264
Encoding resolution	4CIF / 2CIF / CIF
Video frame rate	PAL: 1~25 fps, NTSC: 1~30 fps
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 4 Mbps)
Stream type	Video, Video & Audio
Audio compression	G.711
Audio bit rate	16 Kbps
<b>Hard disk</b>	
HDD type	2, 2.5-inch SATA interfaces for Pluggable HDD/SSD disks
HDD patent	Patented hard disk vibration reduction technology
Data backup	Backup by pluggable HDD/USB devices
<b>Wireless Transmission</b>	
3G	Built-in cdma2000, WCDMA, TD-SCDMA module (optional)
WIFI	Built-in WIFI module, 802.11 b/g/n, 2.4 GHz (reserved)
<b>GPS</b>	
GPS	Built-in high-sensitivity GPS chip
<b>External interface</b>	
Driving Information Collection	4-ch high/low-level signal input, 1-ch pulse signal input(reserved)
Alarm In	3-ch high/low-level signal input
Alarm Out	2-ch relay output
LAN	1 RJ-45 network interface
Antenna interface	SMA interfaces for 2 3G antennas, 1 WIFI antennas and 1 GPS antenna
USB/eSATA Interface	1 USB 2.0 interface
Serial Interface	1 aviation plug for RS-232; 1 aviation plug for RS-422
SIM/UM	1 standard SIM/UM slot
SD/SDHC	1 standard SD/SDHC slot
<b>General</b>	
Operating System	Embedded Linux Operating System
Power Supply	Input: +6 ~ +36 VDC; Output: +12 VDC / 2A, +5 VDC / 2A
Operating Mode	IR Remote Control
Power Consumption	≤ 10W
Working Temperature	-15 °C ~ +55 °C (5 °F ~ 131 °F)
Working Humidity	10% ~ 95%
Size (W×D×H)	236 × 210 × 73 mm (9.3 × 8.3 × 2.9 in)
Weight	≤ 3 kg / 6.6 lb

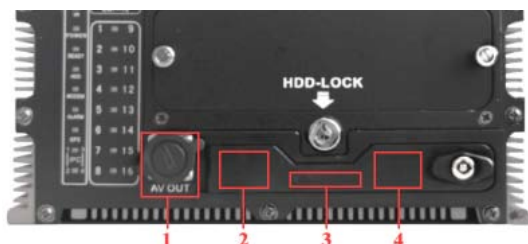
# DS-8104/8108/8112HMFI-T Mobile DVR



## Key features

- H.264 video compression
- 2x2.5" pluggable SATA HDD/SSD
- Power-off protection and redundant power supply
- Built-in 3G (WCDMA/cdma2000) module
- Built-in high-sensitivity GPS module
- Various interfaces

## Panel of DS-8100HMFI-T



1. AV OUT
2. USB/eSATA
3. SD/SDHC card interface; SIM card interface.
4. LAN

## Specifications

	DS-8104HMFI-T	DS-8108HMFI-T	DS-8112HMFI-T
<b>Video / Audio input</b>			
Analog Video Input	4-ch	8-ch	12-ch
	Aviation plug (1.0 Vp-p, 75 Ω), PAL/NTSC self-adaptive		
Audio Input	4-ch	8-ch	12-ch
	Aviation plug (linear electrical level, 1 kΩ)		
<b>Video / Audio output</b>			
Video Output	2-ch CVBS video output, aviation plug (1.0 Vp-p, 75 Ω) Resolution: PAL: 704×576, NTSC: 704×480		
Audio Output	2-ch, aviation plug (linear electrical level, 600 Ω)		
<b>Video / Audio Compression</b>			
Video Compression	H.264		
Encoding resolution	4CIF/ DCIF / 2CIF / CIF / QCIF		
Video Frame Rate	25 fps(P) / 30 fps(N)		
Video Bit Rate	32 Kbps~2048 Kbps, or user defined (Max. 8 Mbps)		
Stream Type	Video, Video & Audio		
Audio Compression	G.711		
Audio Bit Rate	16 Kbps		
<b>HDD Disk</b>			
HDD Type	2 2.5-inch SATA interfaces for Pluggable HDD /SSD disks		
HDD Patent	Patented hard disk vibration reduction technology		
Data Backup	Backup by pluggable HDD /eSATA /USB devices		
<b>Wireless Transmission</b>			
3G	Built-in cdma2000, WCDMA module (optional)		
<b>GPS</b>			
GPS	Built-in high-sensitivity GPS chip		
<b>External Interfaces</b>			
Driving Information Collection	4-ch high/low-level signal input, 1-ch pulse signal input (reserved)		
Alarm In	3-ch high/low-level signal input		
Alarm Out	2-ch relay output		
LAN	1 RJ-45 network interface		
Antenna interface	SMA interfaces for 2 3G antennas, 1 WIFI antenna and 1 GPS antenna		
USB/eSATA Interface	1 USB/eSATA Interface		
Serial Interface	1 RS-232 interface; 1 RS-422 interface		
SIM	1 standard SIM slot		
SD/SDHC	1 standard SD/SDHC slot		
<b>General</b>			
Operating System	Embedded Linux Operating System		
Power Supply	Input: +6 ~ +36 VDC; Output: +12 VDC /2 A, +5 VDC /2 A		
Operating Mode	IR Remote Control		
Power Consumption	≤ 25 W		
Working Temperature	-15 °C ~ +55 °C		
Working Humidity	10% ~ 95%		
Dimensions (W×D×H)	205 × 251× 102.3 mm		
Weight	≤ 4.5 kg		

# DS-1004HMI Mobile DVR Backup Device



## Specifications

DS-1004HMI	
<b>Hard disk</b>	
SATA	2 SATA interfaces
Capacity	Support 2.5" SATA HDD /SSD
<b>External interface</b>	
e-SATA interface	1 eSATA interface
USB interface	1 USB2.0 interface
<b>General</b>	
Power supply	+12 VDC
Power consumption	2 W (without HDD)
Working temperature	-15 °C~+55 °C
Working humidity	10%~90%
Dimensions (W × D × H)	203 x 146 x 79 mm
Weight	≤ 1.5 kg (without HDD)

## Key Features

- Suitable for DS-8100HMI, DS-8008HMI/HMFI, DS-8012HMI/HMFI, DS-8104/8108/8112/8116HMFI-T
- Simple and convenient
- 2 SATA and 1 eSATA interface

## Rear Panel of DS-1004HMI



1. USB interface
2. USB status Indicator
3. Power status Indicator
4. eSATA interface
5. DC IN interface

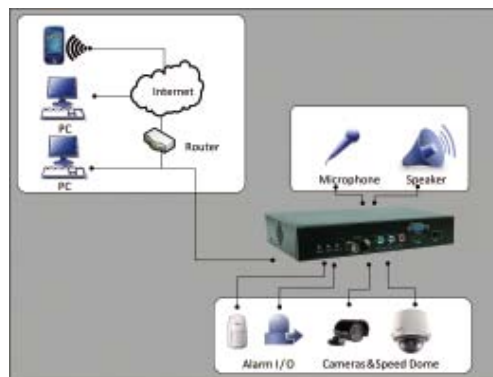
# DIGITAL VIDEO SERVER



# DVS Selection Chart

	Video&Audio Compression	IP Video Input	Recording/ Ecoding/ Decoding resolution	HDMI Output	Video loop out	Network Interface	RAID	HDD	eSATA	USB2.0 interface	Chassis	Page
DS-6601HFHI	√		Up to 1080P			100M					200*136*42 mm	P.134
DS-6601/02/04HFHI	√		4CIF real-time			100M					200*136*42 mm	P.135
DS-6601/02/04HFHI-SATA	√		4CIF real-time			100M		1 SATA			315*201*45 mm	P.136
DS-6601/02/04HCI	√		CIF real-time			100M					200*136*42 mm	P.137
DS-6601/02/04HCI-SATA	√		CIF real-time			100M		1 SATA			315*201*45 mm	P.138
DS-6101HFHI-IP-A	√		4CIF real-time			100M					120*70*45 mm	P.139
IP Module	√		4CIF real-time			100M					48*80 mm	P.140
DS-6301/04/08DI		√	Up to 720P			100M					1U 19"	P.141
DS-6401HDI		√	Up to 1080P	√		100M					198*123*39	P.142
DS-6401/04/08HDI-T		√	Up to 5 MP	√		100M					1U 19"	P.143

# DS-6601HFHI High Definition Digital Video Server



## Key features

- H.264 video compression
- 1920×1080P resolution real-time recording
- HD-SDI/FC/HDMI/VGA/YPbPr video input interfaces
- Dual-stream
- Multiple PTZ protocols
- SADP(IP Finder), UDP, RTP and RTSP protocols

## Specifications

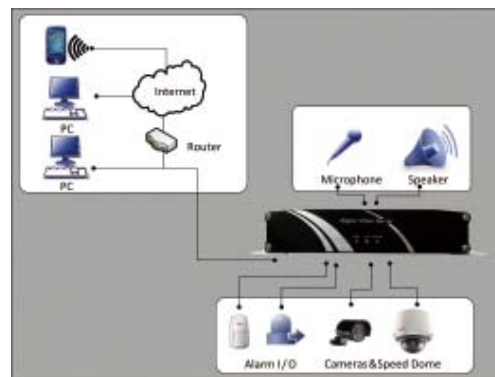
DS-6601HFHI	
<b>Video / Audio input</b>	
Video compression	H.264
HD-SDI video input	1-ch, HD-SDI (800mVp-p, 75Ω) 1920×1080P/25Hz, 1920×1080P/30Hz, 1920×1080P/50Hz, 1920×1080P/60Hz, 1920×720P/25Hz, 1280×720P/30Hz, 1920×720P/50Hz, 1280×720P/60Hz
FC video input	Resolution: 1920×1080P/25Hz, 1280×720P/25Hz, 1600×1200/25Hz
HDMI video input	1-ch, Resolution: 1600×1200/60Hz, 1920×1080P/60Hz, 1280×720P/60Hz, 1280×1024/60Hz, 1024×768/60Hz
VGA video input	1-ch, Resolution: 1600×1200P/60Hz, 1920×1080P/60Hz, 1920×1080P/50Hz, 1280×720P/60Hz, 1280×1024/60Hz, 1024×768/60Hz
YPbPr video input	1-ch, Resolution: 1920×1080P/60Hz, 1920×1080P/50Hz, 1920×1080P/25Hz, 1920×1080P/30Hz, 1280×720P/60Hz, 1280×720P/50Hz
Audio compression	G.711
Audio input	1-ch, RCA (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, RCA (2.0 Vp-p, 1 kΩ)
<b>Video / Audio output</b>	
Audio output	1-ch, RCA (Linear, 1 kΩ)
Encoding resolution	1920×1080/1600×1200/1280×1024/1280×720/1024×768/704×576/352×288 (depending on the type of video input interface connected)
Frame rate	1/16~25/30/50/60 fps
Video bit rate	32 Kbps ~ 16 Mbps
Audio bit rate	64 Kbps
Dual stream	Support
Stream type	Video, Video & Audio
<b>Network protocols</b>	
Protocols Supported	TCP/IP, UDP, IPv4, IPv6; HTTP, RTP, RTSP, NFS, iSCSI, DHCP, NTP, SMTP, SNMPv1, SNMPv2c, SNMPv3, UPNP, SADP, PPPoE, DNS, FTP; IP Server, DynDNS, PeanutHull, NO-IP; PSIA.
<b>Network disk</b>	
Network Disk	8 network disks (NAS/IP SAN)
Capacity	Up to 2TB capacity for each disk
<b>External interface</b>	
Network interface	1, 10 M / 100 M / 1000 Mbps Ethernet interface
Serial interface	1, RS-485, 1 RS-232
Alarm in	2
Alarm out	1
<b>General</b>	
Power supply	12 VDC
Power Consumption	≤ 13W
Working temperature	-10°C ~ +55°C
Working humidity	10% ~ 90%
Dimensions (W × D × H)	200 × 123 × 39 mm
Weight	≤ 1.5 kg

## Rear Panel of DS-6601HFHI



1. Reset
2. Audio in
3. Line in
4. Audio out
5. LAN (10 M/100 M/1000 Mbps self-adaptive UTP ethernet interface)
6. RS-232 serial interface
7. RS-485 serial interface, alarm in, alarm out
8. 12 VDC power input
9. GND

# DS-6601/6602/6604HFI Digital Video Server



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- Dual-stream
- Multiple PTZ protocols
- SADP (IP Finder), UDP, RTP and RTSP protocols

## Rear Panel of DS-6602HFI



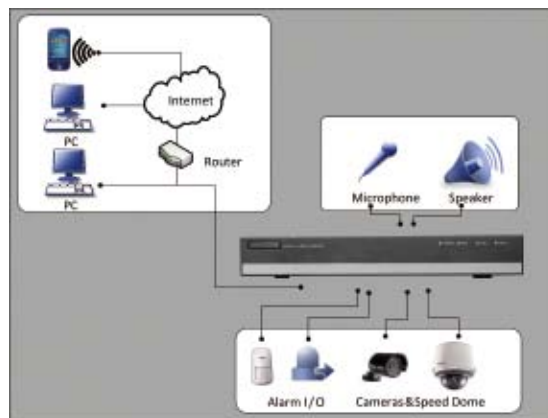
1. GND
2. DC12V
3. RS-485 serial interface
4. Alarm out
5. Alarm in
6. Reset
7. LAN (10M/100Mbps self-adaptive UTP Ethernet interface)
8. RS-232 serial interface
9. Video in
10. Audio in
11. Line in
12. Audio out

## Specifications

	DS-6601HFI	DS-6602HFI	DS-6604HFI
<b>Video / Audio input</b>			
Video Compression	H.264		
Video input	1-ch, BNC (1.0 Vp-p, 75 Ω)	2-ch, BNC (1.0 Vp-p, 75 Ω)	4-ch, BNC (1.0 Vp-p, 75 Ω)
Audio Compression	OggVorbis		
Audio input	1-ch, BNC (2.0 Vp-p, 1 kΩ)	2-ch, BNC (2.0 Vp-p, 1 kΩ)	4-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Audio output	1-ch, 3.5 mm audio interface (2.0 Vp-p, 600 Ω)		
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	4CIF: 25 fps (P) / 30 fps (N)		
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 3 Mbps)		
Audio bit rate	64 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
<b>External interface</b>			
Network interface	1RJ-45 10 M / 100 Mbps self-adaptive UTP ethernet interface		
Serial interface	1 RS-485 interface (PTZ control), 1 RS-232 interface		
Alarm in	4		
Alarm out	2		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 8 W (without HDD or DVD-R/W)		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W × D × H)	200.5 × 136 × 42 mm		
Weight	≤ 2 kg		



# DS-6601/6602/6604HFI-SATA Digital Video Server



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- Dual-stream
- 1 SATA interface
- Multiple PTZ protocols
- SADP(IP Finder), UDP, RTP and RTSP protocols

## Specifications

	DS-6601HFI-SATA	DS-6602HFI-SATA	DS-6604HFI-SATA
<b>Video / Audio input</b>			
Video Compression	H.264		
Video input	1-ch, BNC (1.0 Vp-p, 75 Ω)	2-ch, BNC (1.0 Vp-p, 75 Ω)	4-ch, BNC (1.0 Vp-p, 75 Ω)
Audio Compression	OggVorbis		
Audio input	1-ch, BNC (2.0 Vp-p, 1 kΩ)	2-ch, BNC (2.0 Vp-p, 1 kΩ)	4-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Audio output	1-ch, 3.5 mm audio interface (2.0 Vp-p, 600 Ω)		
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	4CIF: 25 fps (P) / 30 fps (N)		
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 3 Mbps)		
Audio bit rate	64 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
<b>Hard disk</b>			
SATA	1 SATA interface		
Capacity	Up to 2 TB capacity		
<b>External interface</b>			
Network interface	1RJ-45 10 M /100 Mbps self-adaptive UTP ethernet interface		
Serial interface	1 RS-485 interface (PTZ control), 1 RS-232 interface		
Alarm in	4		
Alarm out	2		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 8 W (without HDD or DVD-R/W)		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W ×D × H)	315 × 201 × 45 mm		
Weight	≤ 2 kg (without HDD)		

## Rear Panel of DS-6604HFI-SATA



1. DC12V
2. RS-485 serial interface
3. Alarm out
4. Alarm in
5. Reset
6. LAN (10M/100Mbps self-adaptive UTP Ethernet interface)
7. RS-232 serial interface
8. Video in
9. Audio in
10. Line in
11. Audio out
12. GND

# DS-6101HFI-IP-A Digital Video Server



DS-6101HFI-IP-A

## Key features

- High performance DSP hardware compression
- H.264 video compression
- 4CIF resolution real-time recording
- Dual-stream
- Support variable bit rate and variable frame rate
- Embedded Linux OS

## Specifications

DS-6101HFI-IP-A	
<b>Video / Audio input</b>	
Video compression	H.264
Video input	1-ch
Video input interface	BNC (1.0 Vp-p, 75 Ω)
Audio compression	OggVorbis, 16 Kbps
Audio input	1-ch
Audio input interface	BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)
<b>Video / Audio output</b>	
Encoding / Decoding resolution	4CIF / DCIF / 2CIF / CIF / QCIF
Frame rate	25 fps (P) / 30 fps (N)
Dual-stream	Support
Video bit rate	32 Kbps ~ 2 Mbps, or user defined (Max. 8 Mbps)
Audio output	1-ch, 3.5 mm audio interface (2.0 Vp-p, 600 Ω)
Stream type	Video, Video & Audio
<b>External interface</b>	
Network interface	1 RJ45 10M / 100M self-adaptive Ethernet interface
RS-232 Port	1 RJ45 RS-232 Port
RJ-485 port	1 (T+, T-)
Alarm in	1
Alarm out	1
<b>General</b>	
Power supply	12 VDC
Consumption	≤ 12 W
Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Working humidity	10% ~ 90%
Dimensions (W × D × H)	120 x 70 x 45 mm
Weight (without HDD)	≤ 0.5 kg

# IP Module Digital Video Server



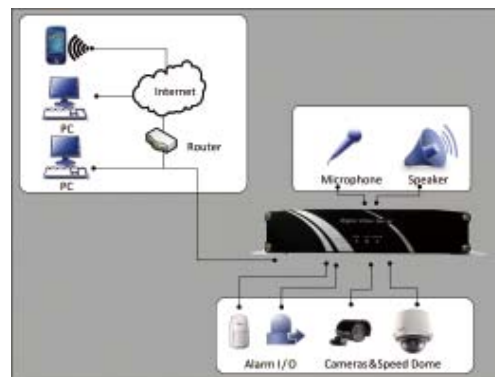
## Key features

Hivision IP module applies Embedded Linux OS and the latest TI DaVinci DSP platform. The product can be embedded into analog camera and analog speed dome to build IP camera and IP dome. With chassis board, IP module also can be used as one channel network digital video server

## Specifications

	IP Module
<b>Video / Audio input</b>	
Video compression	H.264
Video input	1-ch
Video input interface	BNC (1.0Vp-p, 75 Ω)
Audio compression	OggVorbis, 16 Kbps
Audio input	1-ch
Audio input interface	BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)
<b>Video / Audio output</b>	
Encoding resolution	4CIF / DCIF / 2CIF / CIF / QCIF
Frame rate	25 fps (P) /30 fps (N)
Stream type	Video, Video & Audio
Dual-stream	Support
Video bit rate	32 Kbps ~ 2 Mbps, or user defined (Max. 8 Mbps)
Audio output	1-ch, 3.5 mm audio interface (2.0 Vp-p, 600 Ω)
<b>External interface</b>	
Network interface	1 RJ45 10M /100M self-adaptive Ethernet interface
RS-232 Port	1 RJ45 RS-232 Port
RS-485 port	1 (T+, T-)
Alarm in	1
Alarm out	1
<b>General</b>	
Power supply	12 VDC
Consumption	≤ 12 W
Working temperature	-10 °C ~ +55 °C
Working humidity	10% ~ 90%
Dimensions	Compression board: 48 x 80 mm Chassis board: 53 x 94 mm
Weight(without HDD)	≤ 0.5 kg

# DS-6601/6602/6604HCI Digital Video Server



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- Dual-stream
- Multiple PTZ protocols
- SADP(IP Finder), UDP, RTP and RTSP protocols

## Rear Panel of DS-6602HCI

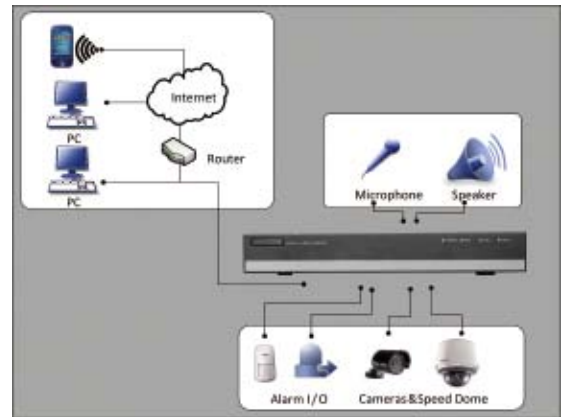


1. GND
2. DC12V
3. RS-485 serial interface
4. Alarm out
5. Alarm in
6. Reset
7. LAN (10M/100Mbps self-adaptive UTP Ethernet interface)
8. RS-232 serial interface
9. Video in
10. Audio in
11. Line in
12. Audio out

## Specifications

	DS-6601HCI	DS-6602HCI	DS-6604HCI
<b>Video / Audio input</b>			
Video Compression	H.264		
Video input	1-ch, BNC (1.0 Vp-p, 75 Ω)	2-ch, BNC (1.0 Vp-p, 75 Ω)	4-ch, BNC (1.0 Vp-p, 75 Ω)
Audio Compression	OggVorbis		
Audio input	1-ch, BNC (2.0 Vp-p, 1 kΩ)	2-ch, BNC (2.0 Vp-p, 1 kΩ)	4-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Audio output	1-ch, 3.5 mm audio interface (2.0 Vp-p, 600 Ω)		
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	Main stream: 4CIF / 2CIF @ 12fps, CIF / QCIF @ 25 fps (P) / 30 fps(N) Sub stream: CIF / QCIF @ 25 fps (P) / 30 fps(N)		
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 3 Mbps)		
Audio bit rate	64 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
<b>External interface</b>			
Network interface	1RJ-45 10 M /100 Mbps self-adaptive UTP ethernet interface		
Serial interface	1 RS-485 interface (PTZ control), 1 RS-232 interface		
Alarm in	4		
Alarm out	2		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 8 W (without HDD or DVD-R/W)		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W ×D × H)	200.5 × 136 × 42 mm		
Weight	≤ 2 kg		

# DS-6601/6602/6604HCI-SATA Digital Video Server



## Key features

- H.264 video compression
- 4CIF resolution real-time recording
- Dual-stream
- 1 SATA interface
- Multiple PTZ protocols
- SADP(IP Finder), UDP, RTP and RTSP protocols

## Rear Panel of DS-6604HCI-SATA

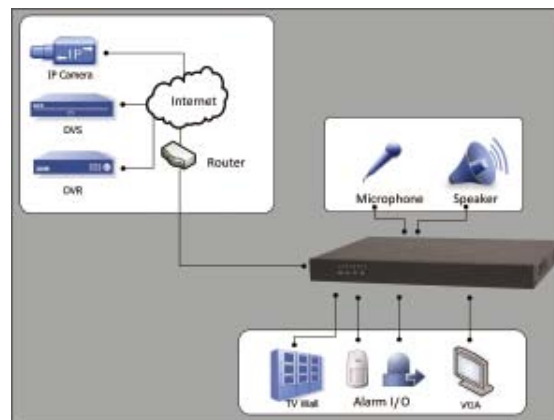


1. DC12V
2. RS-485 serial interface
3. Alarm out
4. Alarm in
5. Reset
6. LAN (10M/100Mbps self-adaptive UTP Ethernet interface)
7. RS-232 serial interface
8. Video in
9. Audio in
10. Line in
11. Audio out
12. GND

## Specifications

	DS-6601HCI-SATA	DS-6602HCI-SATA	DS-6604HCI-SATA
<b>Video / Audio input</b>			
Video Compression	H.264		
Video input	1-ch, BNC (1.0 Vp-p, 75 Ω)	2-ch, BNC (1.0 Vp-p, 75 Ω)	4-ch, BNC (1.0 Vp-p, 75 Ω)
Audio Compression	OggVorbis		
Audio input	1-ch, BNC (2.0 Vp-p, 1 kΩ)	2-ch, BNC (2.0 Vp-p, 1 kΩ)	4-ch, BNC (2.0 Vp-p, 1 kΩ)
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
Audio output	1-ch, 3.5 mm audio interface (2.0 Vp-p, 600 Ω)		
Encoding resolution	4CIF / 2CIF / CIF / QCIF		
Frame rate	Main stream: 4CIF / 2CIF @ 12fps, CIF / QCIF @ 25 fps (P) / 30 fps(N) Sub stream: CIF / QCIF @ 25 fps (P) / 30 fps(N)		
Video bit rate	32 Kbps ~ 2048 Kbps, or user defined (Max. 3 Mbps)		
Audio bit rate	64 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
<b>Hard disk</b>			
SATA	1 SATA interface		
Capacity	Up to 2 TB capacity		
<b>External interface</b>			
Network interface	1RJ-45 10 M /100 Mbps self-adaptive UTP ethernet interface		
Serial interface	1 RS-485 interface (PTZ control), 1 RS-232 interface		
Alarm in	4		
Alarm out	2		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 8 W (without HDD or DVD-R/W)		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W ×D × H)	315 × 201 × 45 mm		
Weight	≤ 2 kg (without HDD)		

# DS-6301/6304/6308DI Decoder Server



## Key features

- H.264 and MPEG4 video stream supported
- Up to 1280×720P resolution decoding
- Up to 4-ch VGA and 8-ch BNC outputs
- SADP(IP Finder),UDP, RTP and NTP protocols
- 32 users with multi-user level management

## Rear Panel of DS-6308DI

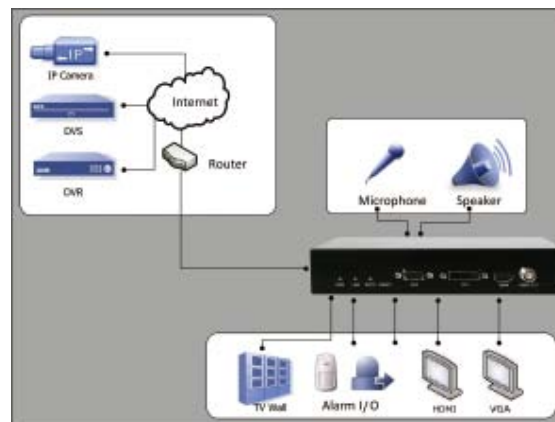


1. Video/audio out
2. Line in
3. Line out
4. Audio-1 to audio-4
5. VGA
6. RS232
7. LAN
8. RS-485
9. Alarm in
10. Alarm out
11. Power switch
12. GND

## Specifications

	DS-6301DI	DS-6304DI	DS-6308DI
<b>Video / Audio input</b>			
Voice talk input	1-ch, BNC (2.0 Vp-p, 1 kΩ)		
<b>Video / Audio output</b>			
VGA output	1-ch	2-ch	4-ch
	Resolution:1280×1024 /60 Hz, 1280×720 /60 Hz,1024×768 /60 Hz		
Video output	1-ch BNC (1.0 Vp-p, 75 Ω)	4-ch BNC (1.0 Vp-p, 75 Ω)	8-ch BNC (1.0 Vp-p, 75 Ω)
Decoding resolution	720P / 4CIF / DCIF / 2CIF / CIF / QCIF		
Frame rate	720P: 25 fps (P) / 30 fps (N)		
Audio output	1-ch, BNC (Linear, 600 Ω)	4-ch, BNC (Linear, 600 Ω)	8-ch, BNC (Linear, 600 Ω)
Stream type	Video, Video & Audio		
<b>External interface</b>			
Network interface	1, RJ45 10M/100M self-adaptive Ethernet interface		
Serial interface	1 RS-232 interface (for parameters configuration, maintenance , transparent channel); 1 RS-485 interface (for PTZ control)		
Alarm in	8		
Alarm out	8		
<b>General</b>			
Power supply	12 VDC		
Consumption	≤ 40 W		
Working temperature	-10 °C ~ +55 °C		
Working humidity	10% ~ 90%		
Dimensions (W × D × H)	440 x 44.5 x 320 mm		
Weight(without HDD)	≤ 5 kg		

# DS-6401HDI High Definition Decoder Server



## Key features

- H.264 and MPEG4 video stream supported
- Up to 1920x1080P resolution decoding
- HDMI, DVI, VGA and BNC ports video output
- SADP(IP Finder),UDP, RTP and NTP protocols
- Decoder parameters self-adaptive
- 32 users with multi-user level management

## Rear Panel of DS-6401HDI

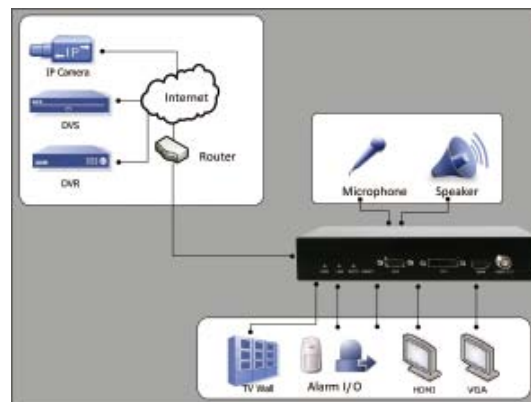


1. MIC in, voice talk input
2. Audio out
3. RS-232 serial interface
4. RS-485 serial interface
5. Alarm in/alarm out(4 inputs/2 outputs)
6. LAN, 10/100/1000Mbps self-adaptive UTP ethernet interface
7. 12VDC power input
8. GND

## Specifications

DS-6401HDI	
<b>Audio / Video Output</b>	
CVBS output	1-ch BNC output, resolution: PAL: 704 × 576, NTSC: 704 × 480
VGA output	1-ch VGA output, resolution: 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60 Hz
HDMI output	1-ch HDMI output, resolution: 1080P (1920 × 1080) /60 Hz, 1080I (1920 × 1080) /60 Hz, 1080P (1920 × 1080) /50 Hz, 1080I (1920 × 1080) /50 Hz, 1600 × 1200 /60 Hz, 1280 × 1024 /60 Hz, 1280 × 720 /60 Hz, 1024 × 768 /60 Hz
DVI output	1-ch DVI output, resolution: 1080P (1920 × 1080) /60 Hz, 1080I (1920 × 1080) /60 Hz, 1080P (1920 × 1080) /50 Hz, 1080I (1920 × 1080) /50Hz, 1600 × 1200 /60 Hz, 1280 × 1024 /60 Hz, 1280 × 720 /60 Hz, 1024 × 768 /60 Hz
Audio output	2-ch, RCA (2.0 ~ 2.4 Vp-p, 600 Ω)
<b>Audio / Video Decoding</b>	
IP video input	H.264 / MPEG4
Voice talk input	1-ch, 3.5 mm audio interface (2.0 Vp-p, 1 kΩ)
Video decoding resolution	1080P (1920 × 1080), 720P (1280 × 720), UXGA (1600 × 1200), SVGA (800 × 600), VGA (640 × 480)
Video decoding channels	1-ch at 1080P (1920 × 1080) / 2-ch at 720P (1280 × 720) / 4-ch at 4CIF resolution
Multi-division Display Mode	1/2/4
Frame rate	25 fps (P) /30 (N) fps
Audio compression	OggVorbis
<b>External Interface</b>	
Network interface	1 RJ45 10/100/1000 Mbps self-adaptive Ethernet interface
Serial interface	1 RS485 and 1 RS232 serial interface
Alarm in	4
Alarm out	2
<b>General</b>	
Power Supply	12 VDC
Power Consumption	≤ 12 W
Working Temperature	-10 °C ~ +55 °C
Working Humidity	10% ~ 90%
Dimensions (W × D × H)	198 × 123 × 39 mm
Weight (without HDD)	≤ 1.5 kg

# DS-6401/6404/6408HDI-T High Definition Decoder Server



## Key features

- H.264 and MPEG4 video stream supported
- Up to 5 Megapixels resolution decoding
- HDMI and VGA output at up to 1920×1080P resolution
- SADP(IP Finder),UDP, RTP and NTP protocols
- Video display on TV wall
- Active and passive decoding modes
- 32 users with multi-user level management

## Rear Panel of DS-6400HDI-T



1. VGA outputs (VGA1~VGA8)
2. HDMI video outputs (HDMI1~HDMI8)
3. Line in/out
4. Audio out
5. RS-232 serial interface
6. LAN, 10/100/1000 Mbps Ethernet interface
7. RS-485 serial interface
8. Alarm in/alarm out(4 inputs/2 outputs)
9. GND
10. Switch
11. Power supply

## Specifications

	DS-6401HDI-T	DS-6404HDI-T	DS-6408HDI-T
<b>Video / Audio output</b>			
VGA output	1-ch 1920×1080@60/50HZ, 1600×1200@60Hz, 1280×1024@60Hz, 1280×768@60Hz	4-ch 1920×1080@60/50HZ, 1600×1200@60Hz, 1280×1024@60Hz, 1280×720@50/60Hz, 1024×768@60Hz	8-ch 1920×1080@60/50HZ, 1600×1200@60Hz, 1280×1024@60Hz, 1280×720@50/60Hz, 1024×768@60Hz
HDMI output	1-ch	4-ch	8-ch
CVBS output	1-ch	--	--
Audio output	1-ch, RCA connector	4-ch, RCA connector	8-ch, RCA connector
<b>Audio/Video Decoding</b>			
IP video input	H.264 / MPEG4		
Decoding Capability	1-ch at 5MP/1080P; 2-ch at 720P; 4-ch at 4CIF resolution	4-ch at 5MP/1080P; 8-ch at 720P; 16-ch at 4CIF resolution	8-ch at 5MP /1080P; 16-ch at 720P; 32-ch at 4CIF resolution
Multi-division Display	1/4	1/4/9/16	1/4/9/16
Audio compression	OggVorbis		
Voice talk input in	2-ch, 3.5mm connector (2.0 Vp-p, 1 kΩ)		
<b>External interface</b>			
Network Interface	1; 10/100/1000Mbps self-adaptive Ethernet interface		
Serial Interface	1 RS-232 (DB9), 1 RS-485		
Alarm In	4		
Alarm Out	4		
<b>General</b>			
Power Supply	12 VDC	220 VAC	220 VAC
Power Consumption	Max. 15W	Max. 70W	Max. 70W
Working temperature	-10 °C ~ +55 °C		
Working Humidity	10% ~ 90%		
Chassis	19-inch rack-mounted 1U chassis	19-inch rack-mounted 1.5U chassis	19-inch rack-mounted 1.5U chassis
Dimensions (W × D × H)	220×180×45mm	445×390×70mm	440×350×70mm
Weight(without HDD)	1.12 kg	5.2 kg	5.2 kg



# ACCESSORIES



# Accessories Selection Chart

	Video&Audio Compression	Video&Audio Decoding	Encoding/Decoding/ Recording Resolution	HDMI Input/Output	PCI Standard	Page
DS-4304HFHI-E	√		1080P real-time	√	PCI-Ex1 2.0	P.146
DS-4308HCVI-E	√		CIF real-time		PCI-Ex1 2.0	P.147
DS-4316HCVI-E	√		CIF real-time		PCI-Ex1 2.0	P.147
DS-4308HFVI-E	√		4CIF real-time		PCI-Ex1 2.0	P.148
DS-4316HFVI-E	√		4CIF real-time		PCI-Ex1 2.0	P.148
DS-4002MDI+		√	4CIF real-time		PCI2.2	P.149
DS-4004MDI+		√	4CIF real-time		PCI2.2	P.149
DS-4101HDI		√	1080P real-time	√	PCI2.2	P.150
Keyboard						P.151
Camera Bracket						P.152 - 153
5" Speed Dome Bracket						P.154
4" Speed Dome Bracket						P.155
Camera Power						P.156
Camera Housing						P.156
Lens						P.157 - 158

# DS-4304HFHI-E High Definition Compression Card



## Key Features

- H.264 real-time video compression
- 1920×1080P resolution real-time recording
- HDMI output at up to 1920×1080P resolution
- Dual-stream
- PCI-Ex1 2.0 standard
- OSD, LOGO and mask area settings

## Specifications

	DS-4304HFHI-E
Dimensions (mm)	199×96
PCI Standard	PCI-Ex1 2.0
Video Compression	H.264 (MPEG-4/part10)
Video Input	4-ch
Video Input Interface	HD-SDI/BNC (1.0Vp-p, 75Ω)
Video Standard	PAL/NTSC adaptive
Live View Resolution	Up to 1920×1080P
Playback Resolution	Up to 1920×1080P
Frame Rate	1~25 fps (PAL), 1~30 fps (NTSC)
Video Recording Bit Rate	32K ~ 16M
Video Output Interface	1, HDMI
Output Resolution	Up to 1920×1080P
Audio Compression	OggVorbis
Audio Input	4-ch
Audio Input Interface	BNC (2Vp-p, 1kΩ, volume adjusting range: 83DB)
Audio Output Interface	1, BNC
Sampling Rate	16KHz
Audio Recording Bit Rate	16Kbps
Power Consumption	<15.5W

# DS-4308/4316HCVI-E Compression Card



## Key Features

- H.264 real-time video compression
- Up to 4CIF resolution recording
- Dual-stream
- PCI-Ex1 2.0 standard
- OSD, LOGO and MASK overlay

## Specifications

	DS-4308HCVI-E	DS-4316HCVI-E
Dimensions (mm)	175 × 102	
PCI Standard	PCI-Ex1 2.0	
Video Compression	H.264 (MPEG-4/part10)	
Video Input	8	16
Video Input Interface	BNC (1.0Vp-p, 75Ω)	
Video Standard	PAL/NTSC adaptive	
Live View Resolution	Up to 4CIF	
Playback Resolution	4CIF/2CIF/CIF /QCIF	
Frame Rate	1/16~25 fps (PAL), 1/16~30 fps (NTSC)	
Video Recording Bit Rate	32K ~ 2M (CIF), 70K ~ 4M (4CIF) (Unit: bps)	
Video Output Interface	1, BNC	
Audio Compression	OggVorbis	
Audio Input	8, mono	16, mono
Audio Input Interface	BNC (2Vp-p, 1kΩ, volume adjusting range: 83DB)	
Audio Output Interface	1, BNC	
Sampling Rate	16KHz	
Audio Recording Bit Rate	16Kbps	
Power Consumption	< 7.4 w	< 9.4 w

# DS-4308/4316HFVI-E Compression Card



## Key Features

- H.264 real-time video compression
- 4CIF resolution real-time recording
- Dual-stream
- PCI-Ex1 2.0 standard
- OSD, LOGO and MASK overlay

## Specifications

	DS-4308HFVI-E	DS-4316HFVI-E
Dimensions (mm)	175 × 102	213 × 102
PCI Standard	PCI-Ex1 2.0	
Video Compression	H.264 (MPEG-4/part10)	
Video Input	8	16
Video Input Interface	BNC (1.0Vp-p, 75Ω)	
Video Standard	PAL/NTSC adaptive	
Live View Resolution	Up to 4CIF	
Playback Resolution	4CIF/2CIF/CIF /QCIF	
Frame Rate	1/16~25 fps (PAL), 1/16~30 fps (NTSC)	
Video Recording Bit Rate	32K ~ 2M (CIF), 70K ~ 4M (4CIF) (Unit: bps)	
Video Output Interface	1, BNC	
Audio Compression	OggVorbis	
Audio Input	8, mono	16, mono
Audio Input Interface	BNC (2Vp-p, 1kΩ, volume adjusting range: 83DB)	
Audio Output Interface	1, BNC	
Sampling Rate	16KHz	
Audio Recording Bit Rate	16Kbps	
Power Consumption	< 8.0 w	< 13.6 w

# DS-4002/04MDI+ Matrix Compression Card



## Key Features

- H.264 video stream supported
- Up to 4CIF resolution decoding
- Up to 4-ch video&audio BNC outputs
- Up to 4×4 multiplex windows display
- Picture-In-Picture display
- PCI 2.2 standard

## Specifications

	DS-4002MDI+	DS-4004MDI+
<b>Video/Audio output</b>		
Support Video compression Standard	H.264	
Video Output	2-ch	4-ch
Video Output Interface	BNC (1.0 Vp-p, 75 Ω)	
Video Standard	PAL/NTSC	
Resolution	2-ch 4CIF Or 4-ch DCIF / 2CIF Or 8-ch CIF / QCIF	4-ch 4CIF or 8-ch DCIF / 2CIF or 16-ch CIF / QCIF
Frame rate	PAL: 25 fps; NTSC: 30 fps	
Support audio compression standard	OggVorbis	
Audio output	2-ch PCM, mono	4-ch, mono
Audio output interface	BNC (Linear Level, 600 Ω)	
<b>General</b>		
PCI standard	PCI 2.2	
Power consumption	< 10 w	< 16 w
Dimensions	168 x 101 mm (6.61" x 3.98")	220 x 89 mm (8.66" x 3.50")
<b>System requirements</b>		
OS	Windows 2000/XP/2003/Vista/7/Linux	
CPU	Intel C4/P4/Core2/Core4 Series	
Motherboard	Based on Intel 845/865/915/925/945/965/G31/G33/P31/P35/P43/P45 Series. Please refer to the compatible list on the Hikvision website	
Memory	512MB or above	
Display adapter	ATI Radeon X1650/X1600/X1550/X1300/X800/X600/X550/HD2400/HD2600 ATI Radeon 7000/7200/7500/8500 /9000/9200 /9500/9600 NVIDIA GeForce 8600GT/8500GT/8400GS/7600/7300LE/6600LE/6200LE Please refer to the compatible list on the Hikvision website	

# DS-4101HDI High Definition Compression Card



## Key Features

- H.264 and MPEG4 video stream supported
- Up to 1920×1080P resolution decoding
- HDMI, DVI, YPbPr and CVBS output at up to 1920×1080P resolution
- PCI 2.2 standard

## Specifications

DS-4101HDI	
<b>Video Parameters</b>	
Supported Video Encoding Standard	H.264/ MPEG4
Video Output	1-ch CVBS Output, BNC interface (1.0Vp-p, 75Ω) 1-ch HDMI Output 1-ch DVI/VGA Multiplexing Output 1-ch YPbPr Output
Video Standar	PAL/ NTSC
Resolution	1-ch 1080P/ 1080i/ UXGA/ XVGA, or 2-ch 720P, or 3-ch SVGA, or 4-ch 4CIF/ VGA
Frame Rate (FPS)	25(PAL), 30(NTSC)
<b>Audio Parameters</b>	
Supported Audio Encoding Standard	OggVorbis
Audio Output	1-ch BNC (Linear level, 600Ω)
<b>General</b>	
PCI Standard	PCI2.2
Dimension (mm)	133*102
Power Consumption	<9.5w

# Keyboard



## Key Features

- Incorporate all DVR front panel functions
- Control DVR and PTZ separately
- Support DVR and keyboard cascading
- 2D joystick

DS-1002KI	
<b>External Interface</b>	
Communication interface	RS-485
<b>Others</b>	
Control mode	RS-485 half-duplex mode, baud rate: 1200 ~ 19200 bps
<b>General</b>	
LCD screen	122 x 32 mm
Joystick	2D
Max. cable length	1200m
Power supply	12 VDC
Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Working humidity	10% ~ 90%
Dimensions (W x D x H)	300 x 180 x 86 mm
Weight	3.2 kg



## Key Features

- Incorporate all DVR front panel functions
- Control DVR and PTZ separately
- Support DVR and keyboard cascading
- 3D joystick

DS-1003KI	
<b>External Interface</b>	
Communication interface	RS-485
<b>Others</b>	
Control mode	RS-485 Half-duplex Mode, Baud Rate: 1200 ~ 19200 bps
<b>General</b>	
LCD screen	128 x 64 mm
Joystick	3D
Max. cable length	1200 m
Power supply	12 VDC
Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Working humidity	10% ~ 90%
Dimensions (W x D x H)	360 x 200 x 108 mm
Weight	3.3 kg



## Key Features







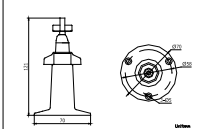
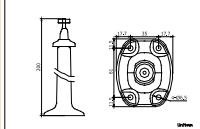
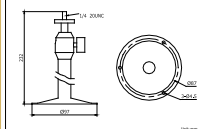
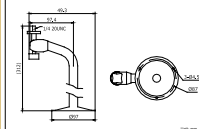
- 7" TFT touch screen at 800×480 resolution
- Speed dome, video decoder & DVR control
- 1-ch HD video stream decoding at 1080p
- Support 15 users, and each can operate up to 256 devices
- USB 2.0 interface for video backup







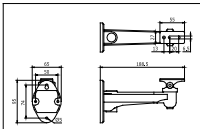
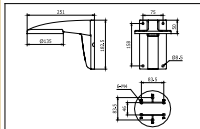
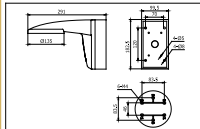
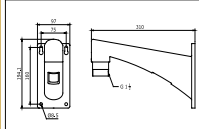
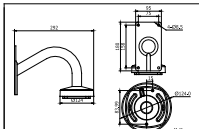
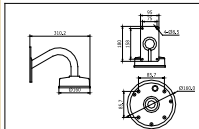
DS-1100KI	
<b>Audio Input/Output</b>	
Line in	1-ch, 3.5 mm connector (2.0 Vp-p, 1 kΩ)
Audio out	1-ch, 3.5 mm connector (Linear, 560 Ω)
<b>External Interface</b>	
Network interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet interface
RS-232 interface	1 RS-232 interface (for parameters configuration and maintenance)
RS-485 interface	1 RS-485 interface
USB interface	1, USB2.0 (for data storage and device upgrade)
<b>General</b>	
LCD	Resolution: 800 × 480
Power supply	12 VDC
Power consumption	≤ 15W
Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Working humidity	10% ~ 90%
Dimensions (W x D x H)	110 × 193 × 435 mm
Weight	2 kg







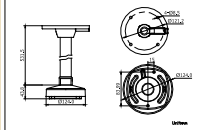
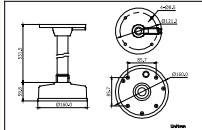
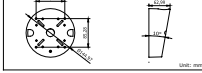
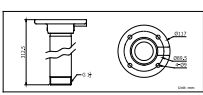
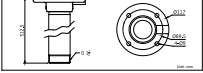
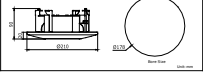








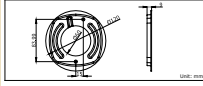
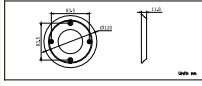
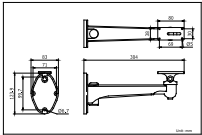
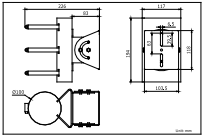
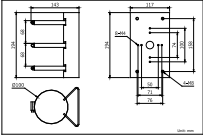
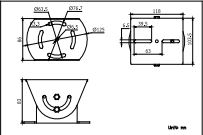
# Accessories

## Camera Bracket






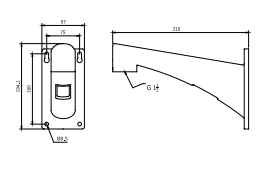
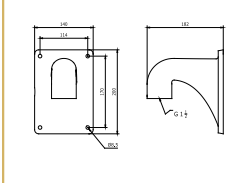
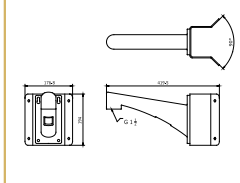
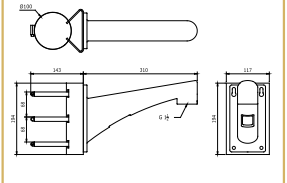
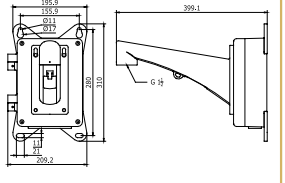
Model						
	DS-1202ZJ(White)	DS-1203ZJ-S(silvery) DS-1203ZJ(White)	DS-1209ZJ-S(silvery)	DS-1210ZJ-S(Silvery)	DS-1204ZJ-S(Silvery)	DS-1204ZJ-B(black)
	Pendant mount	Pendant mount	Pendant mount	Pendant mount	Desktop mount	Desktop mount
Feature	Suitable for box/bullet/zoom camera indoor pendant mounting	Suitable for box/bullet/zoom camera indoor pendant mounting	Suitable for box/bullet/zoom camera indoor pendant mounting	Suitable for box/bullet/zoom camera indoor pendant mounting	Suitable for box/bullet/zoom camera desktop mounting	Suitable for box/bullet/zoom camera desktop mounting
Construction	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy
Weight	200g (0.44lbs)	200g(0.44lbs)	150g(0.33lbs)	300g(0.66lbs)	220g(0.49lbs)	220g(0.49lbs)
	Φ70×121mm (Φ2.76"×4.77")	70.4×84×200mm (2.77"×3.31"×7.87")	Φ97×232mm (Φ3.82"×9.13")	Φ97×312mm (Φ3.82"×12.28")	Height Max. 186mm (Height Max. 7.32")	Height Max. 186mm (Height Max. 7.32")
Dimension						

Model						
	DS-1212ZJ-S(Silvery) DS-1212ZJ(White)	DS-1229ZJ-1(White)	DS-1239ZJ(White)	DS-1611ZJ-S(Silvery)	DS-1246ZJ	DS-1217ZJ(White)
	Indoor wall mount	Dome camera indoor wall mount	Dome camera indoor wall mount	Indoor long-arm wall mount	Mini dome wall mount	Vandal-proof wall mount
Feature	Suitable for box/bullet/zoom camera wall mounting	Suitable for DS-2CD793PF-E, DS-2CD793NFWF-E, DS-2CC5192P, DS-2CC5173P-VPIR, DS-2CC51A5P-VF, etc., dome camera	Suitable for DS-2CD754F-E, DS-2CD793PF-E, DS-2CD793NFWF-E, DS-2CC5192P, DS-2CC5173P-VPIR, etc., dome camera	Suitable for DS-2CD732F-E, DS-2CD752MF-E, DS-2CD792NF-E, etc., dome camera with the same structure	Suitable for DS-2CD7133-E, DS-2CD7153-E, DS-2CD7164-E mini dome camera with the same structure	Suitable for DS-2CD752 MF-IFBH, DS-2CD762MF-FBH, etc., vandal-proof dome camera with the same structure
Construction	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy and ABS plastic	Aluminum alloy
Weight	360g(0.79lbs)	580g(1.28lbs)	1060g(2.34lbs)	1110g(2.45lbs)	960g(2.12lbs)	1395g(3.08lbs)
	65×95×188.5mm (2.56"×3.74"×7.40")	100×182.5×251mm (3.94"×7.19"×9.88")	99.5×182.5×291mm (3.92"×7.19"×11.46")	97×194.1×310mm (3.82"×7.64"×12.20")	124×180×292mm (4.88"×7.09"×11.50")	95×180×310.2mm (3.86"×7.09"×12.21")
Dimension						

Model						
	DS-1236ZJ(White)	DS-1248ZJ(White)	DS-1240ZJ (White)	DS-1651ZJ-S (Silvery)	DS-1652ZJ-S (Silvery)	DS-1227ZJ (White)
	Mini dome camera pendant mount	Vandal-proof dome camera pendant mount	Inclined ceiling mount	Indoor pendant mount (30cm)	Indoor pendant mount (50cm)	Dome camera in ceiling mount
Feature	Suitable for DS-2CD7133-E, DS-2CD7153-E, DS-2CD7164-E, etc., dome camera with the same structure	Suitable for DS-2CD752 MF-IFBH, DS-2CD762MF-FB, etc., vandal-proof dome camera with the same structure	The angle of view of the camera is enlarged 10° with this mount. Suitable for DS-2CC5173P-VP, DS-2CC5191P-VPIR, DS-2CC5197N-VPIR, DS-2CC51A7N-VPIRH, etc., dome camera with the same structure	Suitable for 30cm pendant mounting Suitable for DS-2CD732F-E, DS-2CD752MF-E, DS-2CD792NF-E, etc., dome camera with the same structure	Suitable for 50cm pendant mounting Suitable for DS-2CD732F-E, DS-2CD752MF-E, DS-2CD792NF-E, etc., dome camera with the same structure	Suitable for DS-2CD754F-E, DS-2CD763NF-E, DS-2CD793PFWD-E and DS-2CD733F-E, etc., dome camera with the same structure
Construction	Aluminum alloy and ABS plastic	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Sheet metal and ABS plastic
Weight	1900g(4.19lbs)	2300g(5.07lbs)	440g(0.97lbs)	1800g(2.6lbs)	1320g(2.91lbs)	540g(1.19lbs)
Dimension	Φ 124×575mm (Φ 4.88"×22.64")	Φ160×591mm (Φ 6.30"×23.27")	Φ145×63mm (Φ 5.71"×2.48")	Φ117×312.5mm (Φ 4.61"×12.30")	Φ117×512.5mm (Φ 4.61"×20.18")	Φ210×90mm (Φ 8.27"×3.54")
						






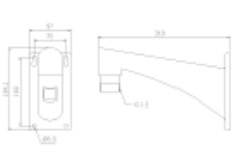
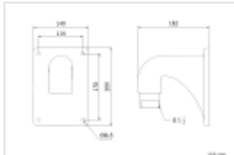
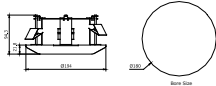


Model						
	DS-1234ZJ (White)	DS-1244ZJ (White)	DS-1213ZJ-S (silvery) DS-1213ZJ (White)	DS-1214ZJ(White)	DS-1215ZJ(White)	DS-1232ZJ
	Inceiling mount with gang box	Inceiling mount	Indoor/outdoor wall mount	Horizontal pole mount	Vertical pole adapter	Universal adapter
Feature	Suitable for DS-2CD7133-E, DS-2CD7153-E, DS-2CD7164-E, etc., dome camera with the same structure	Suitable for DS-2CC5132P, DS-2CC5182N, DS-2CC51A2P, etc., dome camera	Suitable for box/bullet/zoom camera/housing indoor or outdoor wall mounting	Suitable for housing horizontal pole mounting (Universal adjustment) Diameter range of straps: Φ91-114mm(Φ 3.59"-4.49")	Suitable for pole mounting with DS-1212ZJ, DS-1212ZJ-S, DS-1213ZJ, DS-1213ZJ-S, DS-1229ZJ, DS-1229ZJ-1 mounts Diameter range of straps: Φ91-114mm(Φ3.59"-4.49")	Suitable for mounting with housing
Construction	ABS plastic	ABS plastic	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy
Weight	100g(0.22lbs)	100g(0.22lbs)	765g(1.69lbs)	1895g(4.18lbs)	1205g(2.66lbs)	790g( 1.74lbs)
Dimension	Φ120×9mm (Φ 4.72"×0.35")	Φ120×12mm (Φ 4.72"×0.47")	83×123.9×304mm (3.27"×4.88"×11.97")	117×226×194mm (4.61"× 8.90" × 7.64")	117×143×194mm (4.61"× 5.63" ×7.64")	103.5×83×125mm (4.08"×3.27"×4.92")
						

# 5" Speed Dome Bracket





Model					
	DS-1614ZJ Long-arm wall mount	DS-1615ZJ Indoor short-arm wall mount	DS-1633ZJ Suitable for corner mounting	DS-1622ZJ Pole mount	DS-1634ZJ Power box mount
Feature	Suitable for indoor/outdoor wall mounting	Suitable for indoor wall mounting	Aluminum alloy	Suitable for pole mounting Diameter range: $\Phi 91 - 114 \text{ mm}$ ( $\Phi 3.58'' - 4.49''$ )	Suitable for indoor/outdoor wall mounting
Construction	Aluminum alloy	Aluminum alloy	Corner mount	Aluminum alloy	Aluminum alloy
Weight	1,070 g (2.36 lbs)	1,015 g (2.24 lbs)	2,675 g (5.9 lbs)	2,000 g (4.41 lbs)	3770 g (8.31 lbs)
	97 × 194.1 × 310 mm (3.82" × 7.64" × 12.20")	140 × 200 × 182 mm (5.51" × 7.87" × 7.17")	176.8 × 194 × 419.5 mm (6.96" × 7.64" × 16.52")	117 × 194 × 310 mm (4.61" × 7.64" × 12.20")	209.2 × 310 × 399.1 mm (8.24" × 12.20" × 15.71")
Dimension					

Model					
	DS-1644ZJ Ceiling mounting	DS-1645ZJ Ceiling mounting	DS-1656ZJ Pendant mounting (30cm)	DS-1657ZJ Pendant mounting (30cm)	DS-1658ZJ Pendant mounting (50cm)
Feature	Suitable for indoor ceiling mount	Suitable for indoor ceiling mount	Suitable for outdoor pendant mount	Suitable for indoor pendant mount	Suitable for indoor pendant mount
Construction	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy
Weight	440g (0.97lbs)	450g (0.99lbs)	1500g (3.31lbs)	1015g (2.24lbs)	1320g (2.91lbs)
	$\Phi 117 \times 30.5 \text{ mm}$ ( $\Phi 4.61'' \times 1.20''$ )	$\Phi 116.5 \times 30 \text{ mm}$ ( $\Phi 4.59'' \times 1.18''$ )	$\Phi 116.5 \times 337.5 \text{ mm}$ ( $\Phi 4.59'' \times 13.29''$ )	$\Phi 117 \times 293 \text{ mm}$ ( $\Phi 4.61'' \times 11.54''$ )	$\Phi 117 \times 493 \text{ mm}$ ( $\Phi 4.61'' \times 19.41''$ )
Dimension					




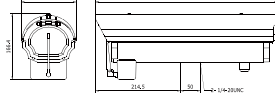
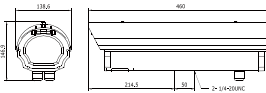
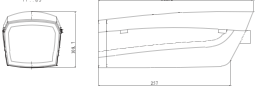
## 4" Speed Dome Bracket

Model					
	DS-1616ZJ	DS-1617ZJ	DS-1671ZJ	DS-1653ZJ	DS-1654ZJ
	Indoor long-arm wall mount	Indoor short-arm wall mount	Indoor in-ceiling mount	Indoor pendant mount (30 cm)	Indoor pendant mount (50 cm)
Feature	Suitable for indoor wall mounting	Suitable for indoor wall mounting	Suitable for in-ceiling mounting	Suitable for indoor 30cm pendant mounting	Suitable for indoor 50cm pendant mounting
Construction	Aluminum alloy	Aluminum alloy	Sheet metal and ABS	Aluminum alloy	Aluminum alloy
Weight	1,110 g (2.45 lbs)	1,055g (2.33lbs)	500 g (1.1 lbs)	860 g (1.9 lbs)	1,180 g (2.6 lbs)
	97 × 194.1 × 310 mm (3.82" × 7.64" × 12.20")	140×200×182mm (5.51" ×7.64" ×7.18")	Φ 194 × 94.3 mm (Φ 7.64" × 3.71")	Φ 117×312.5 (Φ 4.61" × 12.31")	Φ 117×512.5 (Φ 4.61" × 20.19")
Dimension					





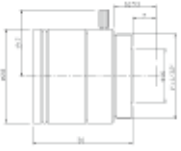
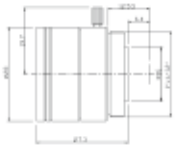
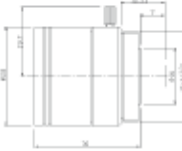
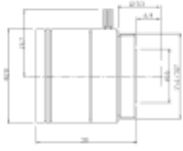
## Camera Power

Model				
Feature	BSW0127-1210002(3C) DC 12 V / 1.0 A China 2-Pin	BSW0127-1210002 DC 12 V / 1.0 A British 3-Pin	BSW0127-1210002 DC 12 V / 1.0 A North American 2-Pin	BSW0127-1210002 DC 12 V / 1.0A European 2-Pin






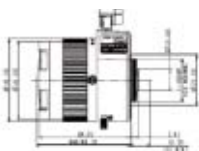

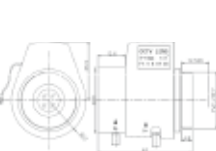
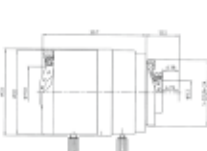
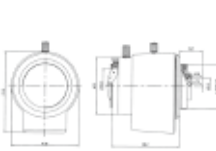
## Camera Housing

Model				
Feature	DS-1311HZ Outdoor camera housing Easy installation	DS-1312HZ Outdoor camera housing Built-in heater, wiper and fan	DS-1313HZ Outdoor camera housing Built-in heater and fan	DS-1320HZ Indoor camera housing Special button for ON/OFF
Working Temperature	-10 °C - 60 °C (14 °F - 140 °F)	-40°C ~60°C (-40°F-140°F) (When the temperature is below 5°C±5°C, the heater and fan turn on automatically. When the temperature is above 40°C±5°C, the fan turns on automatically.)	-40°C ~60°C (-40°F-140°F) (When the temperature is below 5°C±5°C, the heater and fan turn on automatically. When the temperature is above 40°C±5°C, the fan turns on automatically.)	-10 °C - 60 °C (14 °F - 140 °F)
Power Supply	--	24 V AC ± 10%	24 V AC ± 10%	--
Power Consumption	--	Heater 50 W, Fan 3 W, Wiper 5 W	Heater 50 W, Fan 3 W	--
Weather Proof	IP66	IP66	IP66	--
Construction	Aluminum alloy	Aluminum alloy	Aluminum alloy	ABC plastic
Weight	2300 g (5.07 lbs)	2615 g (5.77 lbs)	2415 g (5.32 lbs)	600 g (1.32 lbs)
Dimensions	138.6 × 146.9 × 460 mm (5.46" × 5.78" × 18.11") 	138.6 × 166.4 × 460 mm (5.46" × 6.55" × 18.11") 	138.6 × 146.9 × 460 mm (5.46" × 5.78" × 18.11") 	110.9×108.7×300.2mm (4.37"×4.28"×11.82") 

# Lens

Model				
	TF0216 Fixed Iris Fixed Focus Lens	TF0412-IR Fixed Iris Fixed Focus IR Lens	TF0612-IR Fixed Iris Fixed Focus IR Lens	TF0812-IR Fixed Iris Fixed Focus IR Lens
Focal Length	2.1mm	4mm	6mm	8mm
Aperture Range	F1.6	F1.2	F1.2	F1.2
Lens Mount	CS	CS	CS	CS
Format	1/3"	1/3"	1/3"	1/3"
Horizontal Angle of View	1/3" 122.4°	1/3" 59°	1/3" 43.6°	1/3" 33.4°
	1/4" 85°	1/4" 44°	1/4" 32.7°	1/4" 25.05°
Min.Working Distance	0.1 m	0.2 m	0.2 m	0.2 m
Weight	55 g	36 g	39 g	39 g
Application	Within 5 meters	Within 10 meters	Within 15 meters	Within 20 meters
Dimension	Φ30 × 20.7 mm (Φ 1.18" × 0.81")	Φ28 × 27.3 mm (Φ 1.10" × 1.07")	Φ28 × 30 mm (Φ 1.10" × 1.18")	Φ28 × 30 mm (Φ 1.10" × 1.18")
				

Model					
	TV0309D-IR Auto Iris Vari-focal IR Lens	TV3508M Manual Iris Vari-focal Lens	TV2713D-IR Auto Iris Vari-focal IR Lens	TV0550D-IR Auto Iris Vari-focal IR Lens	TV0660M-IR Manual Iris Vari-focal IR Lens
Focal Length	3 ~ 9 mm	3.5 ~ 8 mm	2.7 ~ 13 mm	5 ~ 50 mm	6 ~ 60 mm
Aperture Range	F1.2-C	F1.4-C	F1.3-C	F1.4-C	F1.6-C
Lens Mount	CS	CS	CS	CS	CS
Format	1/3"	1/3"	1/3"	1/3"	1/3"
Horizontal Angle of View	1/3" 111° ~ 31.6°	1/3" 78° ~ 34°	1/3" 98° ~ 22°	1/3" 49° ~ 5.4°	1/3" 42° ~ 4.5°
	1/4" 69.6° ~ 23.4°	1/4" 58° ~ 26°	1/4" 73.1° ~ 17.1°	1/4" 36.8° ~ 4°	1/4" 32° ~ 3.4°
Min.Working Distance	0.2 m	0.1 m	0.3 m	0.5 m	0.5 m
Iris Control	DC	Manual	DC	DC	Manual
Weight	45 g	105 g	78 g	118 g	108 g
Application	Within 20 meters	Within 20 meters	Within 30 meters	Within 100 meters	Within 100 meters
Dimension	Φ33 × 45.8 mm (Φ 1.30" × 1.80")	Φ33 × 44 mm (Φ 1.30" × 1.73")	Φ38.8 × 59 mm (Φ 1.53" × 2.32")	Φ35.4 × 61 mm (Φ 1.39" × 2.40")	Φ37 × 63.6 mm (Φ 1.46" × 2.50")
					

Model					
	TV2712D-MPIR	TV0515M-MPIR	TV0515D-MPIR	HV4510M-MPIR	HV4510D-MPIR
	Auto Iris Vari-focal Megapixel IR Lens	Manual Iris Vari-focal Megapixel IR Lens	Auto Iris Vari-focal Megapixel IR Lens	Manual Iris Vari-focal Megapixel IR Lens	Auto Iris Vari-focal Megapixel IR Lens
Focal Length	2.7-12mm	5 ~ 15 mm	5 ~ 15 mm	4.5 ~ 10 mm	4.5 ~ 10 mm
Aperture Range	F1.2-C	F1.4-C	F1.4-C	F1.6-C	F1.6-C
Lens Mount	CS	CS	CS	CS	CS
Format	1/2.7"	1/3"	1/3"	1/2"	1/2"
Horizontal Angle of View	1/3" 97.2°~24.3°	1/3" 52° ~ 18°	1/3" 41° ~ 19°	1/2" 80.5° ~ 37°	1/2" 80.5° ~ 37°
	1/4" 72.1°~18.4°	1/4" 39° ~ 14°	1/4" 36° ~ 15°	1/3" 60° ~ 29°	1/3" 60° ~ 29°
Min.Working Distance	0.1m	0.2 m	0.2 m	0.1 m	0.1 m
Iris Control	DC	Manual	DC	Manual	DC
Weight	85 g	55 g	58 g	78.6 g	76.7 g
Application	Within 30 meters	Within 50 meters	Within 50 meters	Within 30 meters	Within 30 meters
Dimension					
	Φ48.5×61.3 (Φ1.91"×2.41")	Φ31 × 42.1 mm (Φ1.22" × 1.66")	Φ29 × 38.2 mm (Φ1.14" × 1.50")	Φ33 × 39.7 mm (Φ1.30" × 1.56")	Φ38 × 38.2 mm (Φ1.50" × 1.50")

Model				
	MF1214M-MP	MF1614M-MP	MF2514M-MP	MF5018M-MP
	Manual Iris Fixed Focus Megapixel Lens	Manual Iris Fixed Focus I Megapixel Lens	Manual Iris Fixed Focus Megapixel Lens	Manual Iris Fixed Focus Megapixel Lens
Focal Length	12 mm	16 mm	25 mm	50 mm
Aperture Range	F1.4-C	F1.4-C	F1.4-C	F1.8-C
Lens Mount	C	C	C	C
Format	2/3"	2/3"	2/3"	2/3"
Horizontal Angle of View	2/3" 39.9°	2/3" 30.4°	2/3" 19.9°	2/3" 9.2°
	1/2" 29.89°	1/2" 22.62°	1/2" 14.59°	1/2" 7.32°
Min.Working Distance	0.15 m	0.3 m	0.25 m	0.5 m
Iris Control	Manual	Manual	Manual	Manual
Weight	76 g	81 g	83 g	98 g
Application	Within 40 meters	Within 50 meters	Within 80 meters	Within 200 meters
Dimension				
	Φ34 × 32 mm (Φ1.34" × 1.26")	Φ34 × 31.8 mm (Φ1.34" × 1.25")	Φ34 × 35.4 mm (Φ1.34" × 1.39")	Φ34 × 39.7 mm (Φ1.34" × 1.56")



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