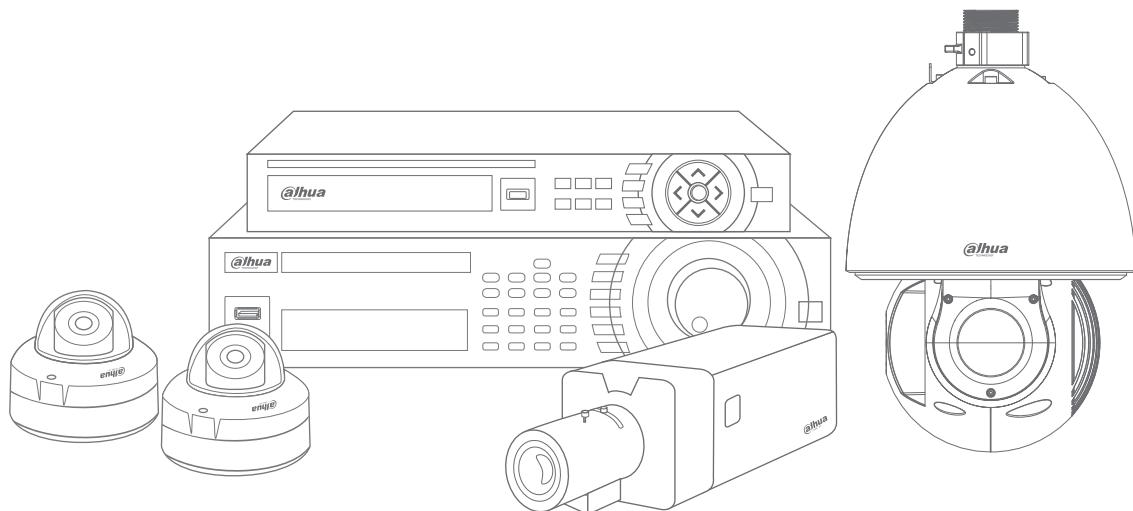




# HDCVI

## PRODUCT CATALOG

2014 Version 2



# Company Overview



Dahua Technology is a world-leading and advanced video surveillance solution provider. The company's product portfolios include the advanced series of front-end, back-end, display, software as well as intelligent traffic solution. Dahua was the first company in China to launch 8-channel real-time embedded digital video recorder in 2001. Since then, the company keeps on investing and building strong R&D capabilities for new technology and innovation. With nearly investing 10% of sales revenue every year, Dahua has a more than 2000 professionals in R&D team, aiming to provide the cutting edge products with high quality and performance. To create win-win situation and to maximize customers' values are always our priorities.

Dahua has established sales, marketing and service network locally and globally. Aside from offices in mainland China, the company also has offices or sales representatives in Asia, the Americas, Europe, Oceania, Africa and others, responding to the market with the best service and products.

Meanwhile, Dahua provides the industry leading "three-year" warranty in China's market. To-date, Dahua's products are widely applied in many fields, such as banking, public security, energy, telecommunication, intelligent-building and intelligent-transportation. Numerous major projects have been installed with Dahua's solutions, for example, the Three Gorges Hydropower Plant, Six-Country Summit, Olympic Venues, Shanghai World Expo, Kremlin Palace, Paris Charles de Gaulle Airport and London Underground as well as many others.

Dahua Technology owns 353 patents, including 16 invention patents. In China, Dahua Technology is a Safety City project recommended brand and one of China's most influential security companies. At international front, the company has been awarded "Top 10 Security Brand in China" for 10 years and has been ranking in "Security 50" by a&s magazine for 6 years. Moreover, Dahua enjoyed 6th largest market share according to 2012 IMS global report.

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## Overview

Dahua Technology releases High Definition Composite Video Interface (HDCVI) technology of Independent Intellectual Property Rights. HDCVI is a video transmission technology in high definition via coaxial cable, allowing reliable long-distance HD transmission at lower cost, while complex deployment is applicable.

HDCVI modulates video signal to level and then transmit by adopting base-band and quadrature amplitude modulation; which is also the reason of its naming. This technology avoids the cross talk of CVBS and completely separates the brightness signal and hue signal, hence further enhances video quality.

HDCVI offers two specifications — 1920H (1920×1080) and 1280H (1280×720); which are compatible with the industrial standard 1080p(1920×1080) and 720p(1280×720). In addition, the technology features a patent named auto signal compensation (ASC), which only allows an extremely low signal distortion along long-distance transmission.

HDCVI solution incorporates both cameras and DVRs, and the system is star topology structured; DVR is served as a node to have an over coax P2P (Point-to-Point) transmission to camera. Cable selection is based on transmission distance: cable 75-3 and 75-5 are recommended for transmission within 500 meters, cable 75-5 and above for over 500 meters. Connector or jointing technology could be applied for connecting and the installation is exactly the same as that of conventional analog devices, which posts no special requirements either for indoor or outdoor scenarios with better anti-interference capability offered.

To further realize multiple-signal transmission over one cable, both audio signal and dual-way data communication signal are embedded in a blanking zone; which enhances the synchronization with video signal; and max supports 44.1kHz sampling rate thanks to ASC.

The forward and reverse data channels composite in the frame blanking zone, realizing a two-way end-to-end transmission to support control commands such as camera focus, PTZ control, real-time alarm and etc. The forward outputting data supports high transmission baud rate as the sending time and electric signal baud rate are predictable, meanwhile, the receiving end is of high ASC performance; on the other hand, the reverse outputting data supports lower baud rate due to its low signal frequency and limited data, which is effected by the impedance matching. However, with ASC adopted, the reverse channel could restore electric signal during long-distance transmission at some degree.

Therefore, HDCVI is an optimal solution for megapixel high definition application, featuring non-latent long-distance transmission at lower cost.

## HDCVI Chip

Dahua HDCVI chip comprises transmitting chip (TX) and receiving chip (RX), which are designed for front-end HDCVI cameras and DVRs, respectively; Chips could also be applied in fiber optic transceiver, distributor, matrix as well.

## Transmitting Chip (TX)

TX interfaces includes BT1120/BT656 digital video interface, I2S audio interface and I2C configuration interface, which are all of industrial standard design, allowing TX chip to use any standard interface for ISPs and audio chips on the market.

As for analog output, in addition to HDCVI format, the TX chip is also compatible with CVBS.

The TX chip supports 1280H@25fps/30fps/50fps/60fps and 1920H@25fps/30fps.

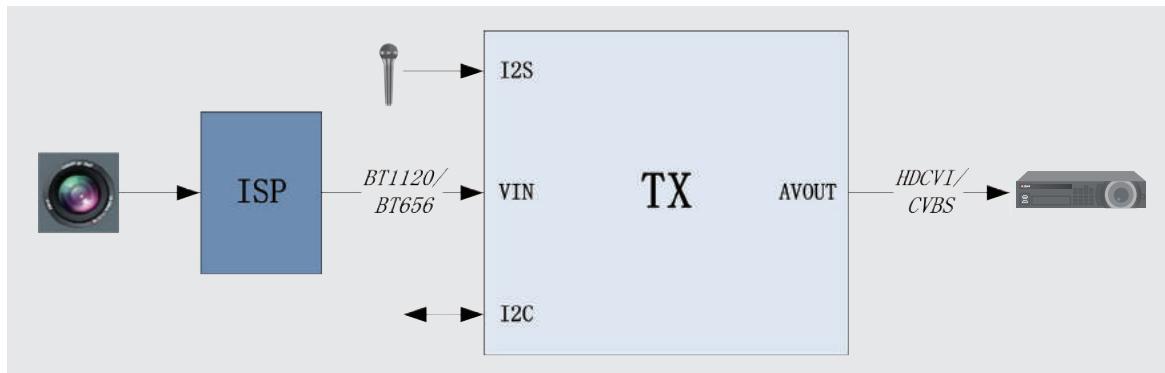


Figure 1 TX Flow Chart

The figure above shows the simplicity of HDCVI solution with TX chip adopted; its tiny size of the chip also makes itself quite suitable for the application in all kinds of camera sizes.

## Receiving Chip (RX)

The RX chip supports HDCVI HD inputs and digital video outputs; I2S audio output, multiple-chip audio cascade output as well as I2C configuration interface; it also supports flexible mapping of HDCVI video input channel and digital output channel; each channel is of its own format and built-in equalizer, supporting video parameters setup such as brightness, contrast, hue, saturation, dual-way control signal transmission.

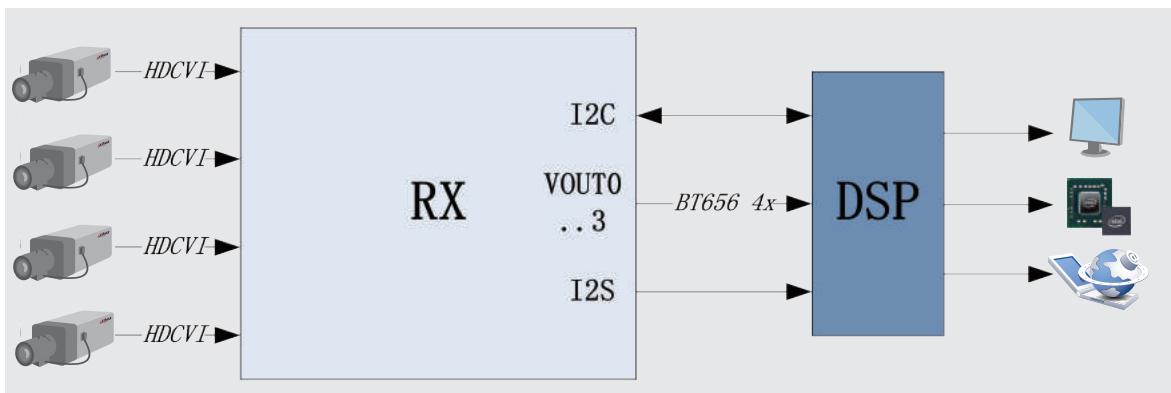


Figure 2 RX Flow Chart

As seen in Figure 2, RX chip has the same interface as AD chip in a conventional analog DVR, which is to say that it provides seamless integration with conventional DVRs; and the built-in equalizer allows HDCVI DVR to receive HD video signal up to 500 meters. The TX chip supports 1280H@25fps/30fps/50fps/60fps and 1920H@25fps/30fps.

In a word, with minor changes done on conventional cameras and DVRs shall the manufacturers embrace a brand-new HDCVI solution, which levels up image quality dramatically, but at a lower cost.

# **HDCVI Function**

## **HDCVI VS. HD-SDI**

### **Longer Transmission Distance**

Both HDCVI and HD-SDI can transfer HD signal @720p/1080p, but HDCVI has a distinguished advantage at the transmission distance. With general transmission media, HD-SDI reaches 100 meters at most while HDCVI, at least, transmits 500 meters by using 75-3 cable and featuring low signal distortion rate.

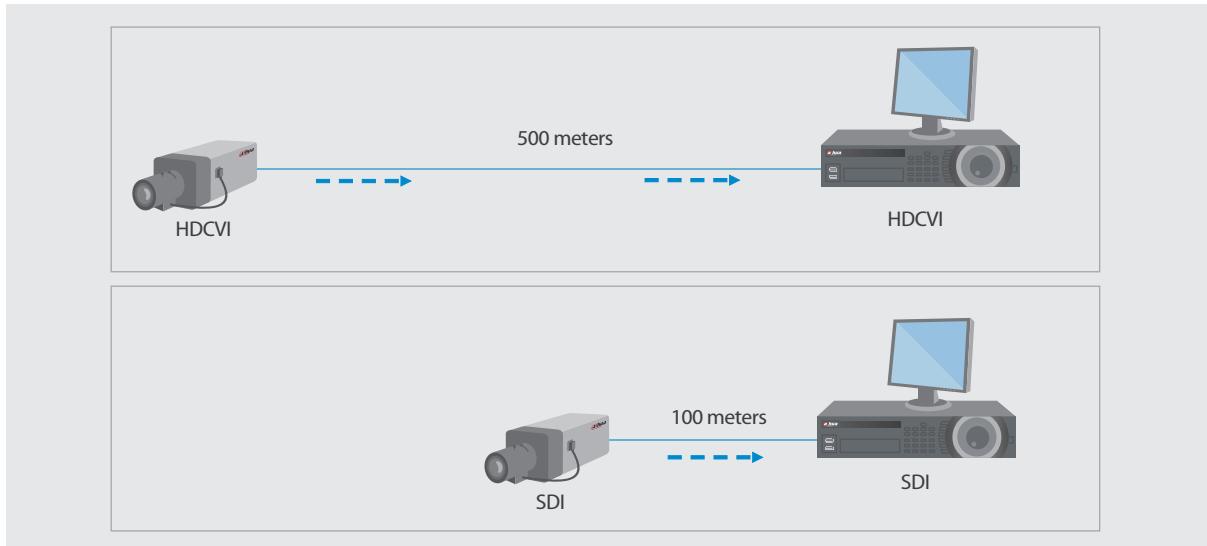


Figure 3 Contrast on Transmission Distance

### **Better Anti-Interference Capability**

The anti-interference capability of HD-SDI solution is relatively poor when been placed against high-frequent radiation environment, which could lead to higher bit error ratio while the HDCVI adopts low-frequency modulation technology, making it free from the high-frequency wireless electric radiation to ensure stable video transmission at high image quality.

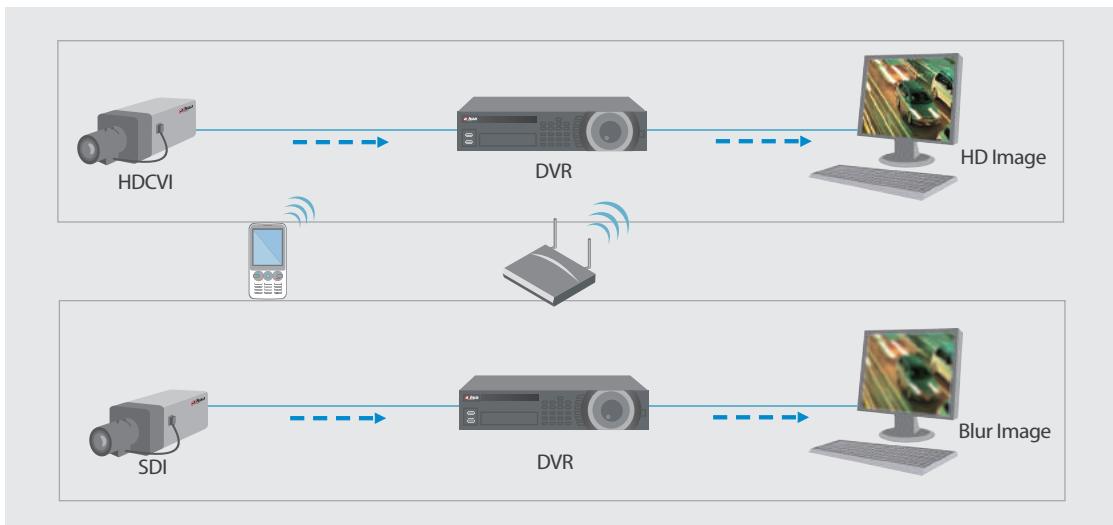


Figure 4 Anti-Interference Capability

## HDCVI VS. IP

### Reliability

HDCVI adopts P2P transmission to ensure a smooth and reliable transmission; while the transmission of network camera is based on Ethernet and thus may lead to network jitter and packet loss.

### Real-time

The network HD features video buffer technology and the delay is controlled within 300 milliseconds in the general and fair networking environment; However, HDCVI features no latency capability for an outstanding real-time performance.

### No Compression

For HDCVI, there is no compression processed to maintain its original effect and thus present in vivid image quality.

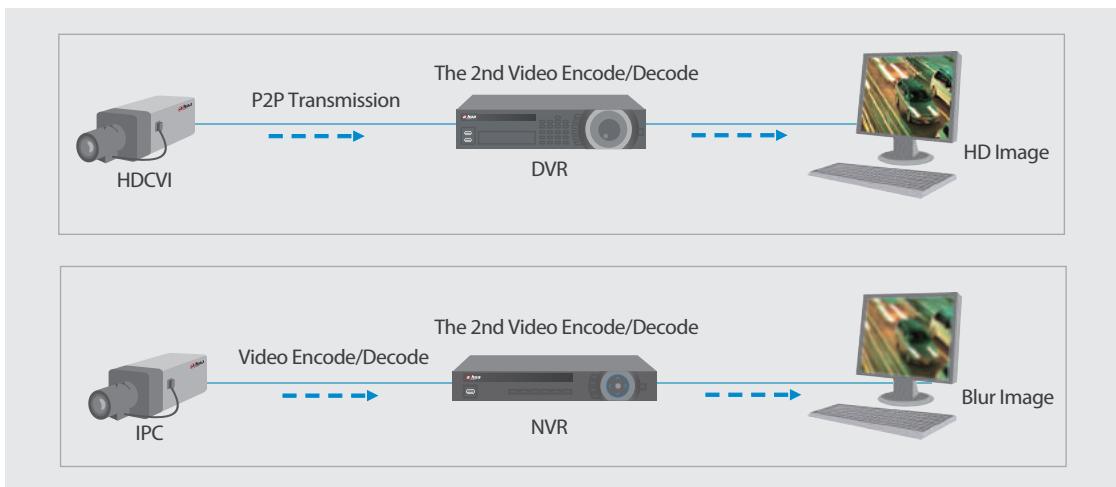


Figure 5

## Highlights

### Lower Cost

Unlike HD-SDI, which posts high demands on cabling and installation; HDCVI solution inherits the same installing means of conventional analog solutions, which is of great convenience and also decrease the cost.

### Smart control

As HDCVI transmits multiple-signal (video/audio and dual-way data) over one cable, it realizes video/audio synchronized transmission and reverse-signal transmission control at the same time, such as PTZ and zoom control; which further simplifies the installation.



# HDCVI Case Study

## Dahua HDCVI Secures CICA Shanghai

Dahua Technology, a world-leading manufacturer and supplier of video surveillance products headquartered in Hangzhou, China successfully secured five-rated hotels in Shanghai with in-house HDCVI solution. These hotels were playing host to 46 national and organization leaders in Asia during the fourth summit of Conference on Interaction and Confidence-Building Measures (CICA).



CICA Shanghai was hosted during 20th to 21st of May and the conference plays a significant role in security cooperation through out Asia, Xi Jinping, President of People's Republic of China also attended and presided over the summit.

Shanghai municipal government attached great importance to the summit and spared no endeavor to make sure everything goes secured. To level up video surveillance is among on its must-do list. More than 50 reception hotels are required to upgrade surveillance system from standard definition to high definition. And the biggest challenge is under great pressure by time frame, how to make sure the image quality and product replacement would not compromise the daily reception and security concern of these five-star rated hotels.

Under such circumstance and given the fact that these hotels were dominated by conventional analog systems, it came to a natural decision to adopt Dahua HDCVI as it allows easy upgrade without changing the existing cabling while also provides long-distance and non-latent image quality. Moreover, the whole upgrade takes more or less 10 days to as cabling are remained, only cameras, DVRs along with fiber optical transceivers are replaced by HDCVI ones.



With aesthetic requirement for the hotels, HDCVI offers wide range of housings and its speed domes and box cameras are perfectly coexisting with the décor in the lobby, reception, entrance and dining areas.

"This project demonstrates all the benefits of HDCVI and has proved applicable and workable," said Tim Shen, Overseas Marketing Director at Dahua Technology. "Within only 10 days, the whole video surveillance system has been upgraded to high definition which is not likely happened to IP solution. What HDCVI has been offered to the industry is another HD solution and this is highly gratified by our customers while cabling, cost and IP hassles are the concerned issues."



# HDCVI DVR

# DH-HCVR7804/7808/7816S

## 4/8/16CH Tribrid HDCVI & Analog & IP 2U DVR

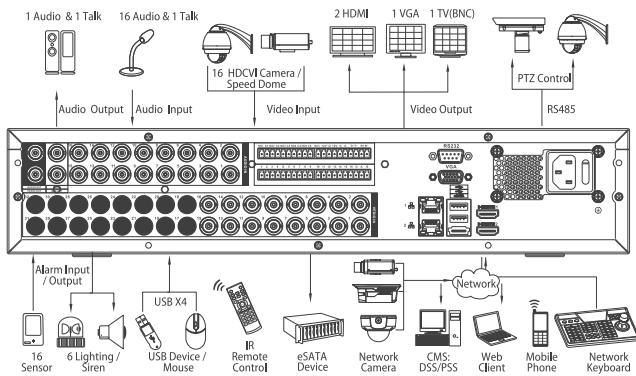
### Technical Specifications



### Features

- Tribrid: Each channel supports HDCVI/Analog/IP Video input
- 1HDMI/VGA/TV simultaneous video output, 1 HDMI separate output
- HCVR7804/7808/7816S: All channel 1080P realtime recording
- Up to 1080p realtime live view
- H.264 dual-stream video compression
- 4/8 channel synchronous realtime playback, GRID interface & smart search
- Support Multi-brand network cameras: Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videosec, Vivotech , and etc.
- ONVIF Version 2.3 conformance
- 3D intelligent positioning with Dahua PTZ camera
- Support 8 SATA HDDs up to 32TB, 1 eSATA up to 16TB, 4 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



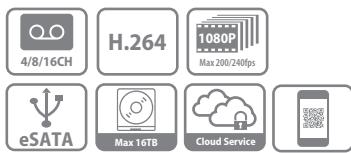
Model	DH-HCVR7804S	DH-HCVR7808S	DH-HCVR7816S
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel	8 channel	16 channel
Standard	HDCVI Analog IP	1080P/720P HDCVI Camera NTSC(525Line, 60f/s), PAL(625Line, 50f/s), Effio 960H Camera 1080P/720P/D1/CIF IP Camera	
<b>Audio</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Output	1 channel, BNC		
Two-way Talk	1 channel input, 1channel output, BNC		
<b>Display</b>			
Interface	2 HDMI, 1 VGA, TV		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264/G.711		
Resolution	1080P(1920×1080) / 720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream Extra stream	1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) CIF/QCIF(1~25/30fps)	
Bit Rate	48~6144kb/s		
Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Event	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	6 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device/eSATA Device/Internal SATA burner/Network		
<b>Network</b>			
Ethernet	2RJ-45 port (10/100M/1000M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, Alarm Server, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	8 SATA ports, up to 32TB		
External HDD	1 eSATA port, up to 16TB		
<b>Auxiliary Interface</b>			
USB Interface	4 ports(2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard		
<b>General</b>			
Power Supply	AC 100~240 V, 50/60 Hz		
Power Consumption	40W(without HDD)		
Working Environment	-10°C~+55°C/10%~90%RH/86~106kpa		
Dimension(W×D×H)	2U, 440mm×460mm×89mm		
Weight	6.5kg(without HDD)		

\* Takes HCVR7816S as an example

# DH-HCVR7404/7408/7416L

## 4/8/16CH Tribrid HDCVI & Analog & IP 1.5U DVR

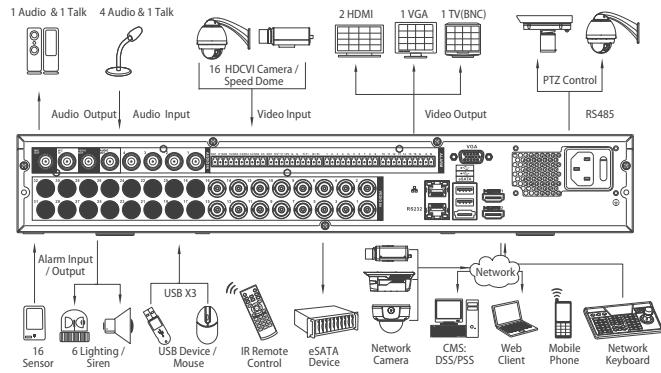
### Technical Specifications



### Features

- Tribrid: Each channel supports HDCVI/Analog/IP Video input
- 1HDMI/VGA/TV simultaneous video output, 1 HDMI separate output
- HCVR7404/7408/7416L: All channel 1080P realtime recording
- Up to 1080p realtime live view
- H.264 dual-stream video compression
- 4/8 channel synchronous realtime playback, GRID interface & smart search
- Support Multi-brand network cameras: Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videosec, Vivotech, and etc.
- ONVIF Version 2.3 conformance
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 4 SATA HDDs up to 16TB, 1 eSATA up to 16TB, 3 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR7416L as an example

Model	DH-HCVR7404L	DH-HCVR7408L	DH-HCVR7416L
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel	8 channel	16 channel
Standard	HDCVI Analog IP	1080P/720P HDCVI Camera NTSC(525Line, 60f/s), PAL(625Line, 50f/s), Effio 960H Camera 1080P/720P/D1/CIF IP Camera	
<b>Audio</b>			
Input	4 channel, BNC		
Output	1 channel, BNC		
Two-way Talk	1 channel input, 1 channel output, BNC		
<b>Display</b>			
Interface	2 HDMI, 1 VGA, 1 TV		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264/G.711		
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480)/CIF(352×288/352×240)/QCF(176×144/176×120)		
Record Rate	Main stream Extra stream	1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) CIF/QCIF(1~25/30fps)	
Bit Rate	48~6144Kb/s		
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	6 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device/eSATA Device/Internal SATA burner/Network		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M/1000M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	4 SATA ports, up to 16TB		
External HDD	1 eSATA port, up to 16TB		
<b>Auxiliary Interface</b>			
USB Interface	3 ports(2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard		
<b>General</b>			
Power Supply	AC 100~240 V, 50/60 Hz		
Power Consumption	40W (without HDD)		
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa		
Dimension(W×D×H)	1.5U, 440mm×416mm×68mm		
Weight	6.0kg (without HDD)		

# DH-HCVR7204/7208A

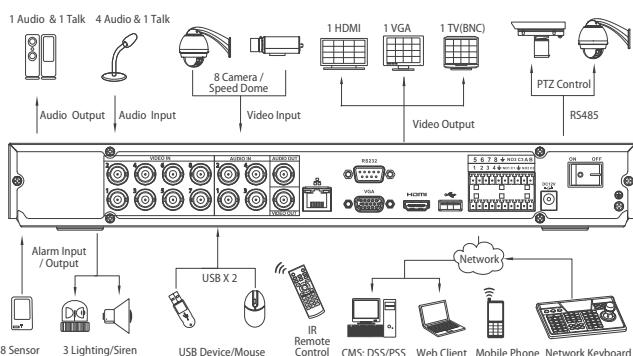
## 4/8CH 1080P 1U HDCVI DVR



### Features

- Up to 4/8 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR7204/7208A: All channel 1080P realtime recording
- HDMI / VGA / TV simultaneous video output
- 4 channel synchronous realtime playback,  
GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 2 SATA HDDs up to 8TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR7208A as an example

### Technical Specifications

Model	DH-HCVR7204A	DH-HCVR7208A				
<b>System</b>						
Main Processor	Embedded processor					
Operating System	Embedded LINUX					
<b>Video</b>						
Input	4 channel, BNC	8 channel, BNC				
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)					
<b>Audio</b>						
Input	4 channel, BNC					
Output	1 channel, BNC					
Two-way Talk	Reuse audio input/output channel 1					
<b>Display</b>						
Interface	1 HDMI, 1 VGA, 1TV					
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600					
Display Split	1/4	1/4/8/9				
Privacy Masking	4 rectangular zones (each camera)					
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording					
<b>Recording</b>						
Video/Audio Compression	H.264 / G.711					
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CF(704×576/704×480)/CIF(352×288/352×240)/QCIF(176×144/176×120)					
Record Rate	<table border="1"> <tr> <td>Main stream</td> <td>1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)</td> </tr> <tr> <td>Extra stream</td> <td>CIF/QCIF(1~25/30fps)</td> </tr> </table>	Main stream	1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)	Extra stream	CIF/QCIF(1~25/30fps)	
Main stream	1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)					
Extra stream	CIF/QCIF(1~25/30fps)					
Bit Rate	48~6144Kb/s					
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop					
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec					
<b>Video Detection &amp; Alarm</b>						
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips					
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank					
Alarm Input	4 channel	8 channel				
Relay Output	3 channel					
<b>Playback &amp; Backup</b>						
Sync Playback	1/4	1/4/9				
Search Mode	Time/Date, MD & Exact search (accurate to second)					
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom					
Backup Mode	USB Device / Network / Internal SATA burner					
<b>Network</b>						
Ethernet	RJ-45 port (10/100M/1000M)					
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P					
Max. User Access	128 users					
Smart Phone	iPhone, iPad, Android, Windows Phone					
<b>Storage</b>						
Internal HDD	2 SATA ports, up to 8TB					
<b>Auxiliary Interface</b>						
USB Interface	2 ports (1 Rear), USB2.0					
RS232	1 port, For PC communication & Keyboard					
RS485	1 port, For PTZ control					
<b>General</b>						
Power Supply	DC12V/5A					
Power Consumption	15W(without HDD)					
Working Environment	-10 ~+55°C / 10~90%RH / 86~106kpa					
Dimension(W×D×H)	1U, 375mm×285mm×55mm					
Weight	2.35kg (without HDD)					

# DH-HCVR7104/7108HE-V2

**NEW!**

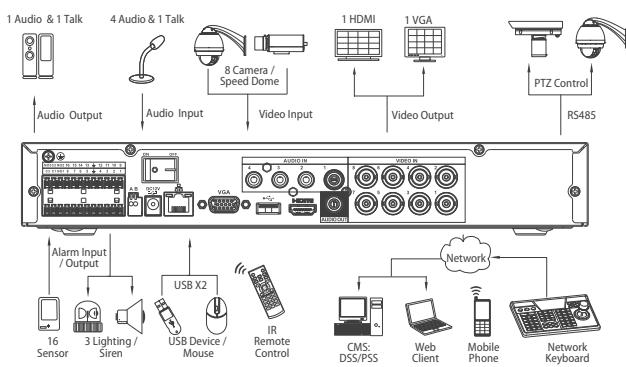
## 4/8CH 1080P Mini 1U HDCVI DVR



### Technical Specifications

Model	DH-HCVR7104HE-V2	DH-HCVR7108HE-V2
<b>System</b>		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
<b>Video</b>		
Input	4 channel, BNC	8 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
<b>Audio</b>		
Input	4 channel, RCA	
Output	1 channel, RCA	
Two-way Talk	Reuse audio input/output channel 1	
<b>Display</b>		
Interface	1 HDMI, 1 VGA	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4	1/4/8/9
Privacy Masking	4 rectangular zones (each camera)	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Recording		
Video/Audio Compression	H.264/G.711	
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Record Rate	Main stream	1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)
	Extra stream	CIF/QCIF(1~25/30fps), D1(1~12/15fps)
Bit Rate	48~6144Kb/s	
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop	
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
<b>Video Detection &amp; Alarm</b>		
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips	
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
Alarm Input	4 channel	16 channel
Relay Output	3 channel	
<b>Playback &amp; Backup</b>		
Sync Playback	1/4	1/4/9
Search Mode	Time/Date, MD & Exact search (accurate to second)	
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
Backup Mode	USB Device/Internal SATA burner/Network	
<b>Network</b>		
Ethernet	RJ-45 port (10/100M)	
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
<b>Storage</b>		
Internal HDD	1 SATA port, up to 4TB	
<b>Auxiliary Interface</b>		
USB Interface	2 ports(1 Rear), USB2.0	
RS485	1 port, For PTZ Control	
<b>General</b>		
Power Supply	DC12V/2A	
Power Consumption	10W (without HDD)	
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa	
Dimension(W×D×H)	Mini 1U, 325mm×255mm×55mm	
Weight	1.5kg (without HDD)	

### System Connection



\* Takes HCVR7108HE-V2 as an example

# DH-HCVR7104/7108H-V2

**NEW!**

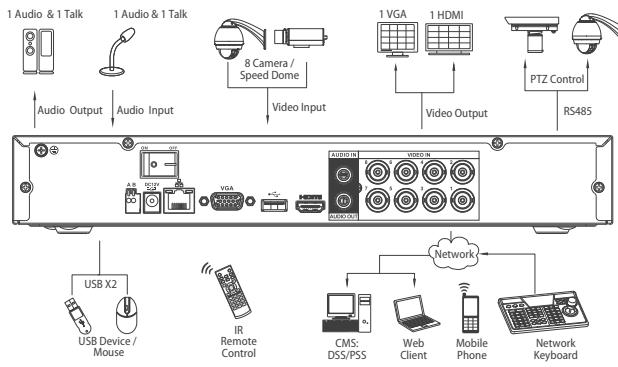
## 4/8CH 1080P Mini 1U HDCVI DVR



### Features

- Up to 4/8 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR7104/7108H-V2: All channel 1080P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR7108H-V2 as an example

### Technical Specifications

Model	DH-HCVR7104H-V2	DH-HCVR7108H-V2
<b>System</b>		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
<b>Video</b>		
Input	4 channel, BNC	8 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
Audio		
Input	1 channel, RCA	
Output	1 channel, RCA	
Two-way Talk	Reuse audio input/output channel 1	
<b>Display</b>		
Interface	1 HDMI, 1 VGA	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4	1/4/8/9
Privacy Masking	4 rectangular zones (each camera)	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
<b>Recording</b>		
Video/Audio Compression	H.264/G.711	
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Record Rate	Main stream 1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps), D1(1~12/15fps)	
Bit Rate	48~6144Kb/s	
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop	
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
<b>Video Detection</b>		
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips	
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
<b>Playback &amp; Backup</b>		
Sync Playback	1/4	1/4/9
Search Mode	Time/Date, MD & Exact search (accurate to second)	
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
Backup Mode	USB Device/Internal SATA burner/Network	
<b>Network</b>		
Ethernet	RJ-45 port (10/100M)	
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
<b>Storage</b>		
Internal HDD	1 SATA port, up to 4TB	
<b>Auxiliary Interface</b>		
USB Interface	2 ports(1 Rear), USB2.0	
RS485	1 port, For PTZ Control	
<b>General</b>		
Power Supply	DC12V/2A	
Power Consumption	10W (without HDD)	
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa	
Dimension(W×D×H)	Mini 1U, 325mm×255mm×55mm	
Weight	1.5kg (without HDD)	

# DH-HCVR7104/7108HC-V2

**NEW!**

## 4/8CH 1080P Mini 1U HDCVI DVR



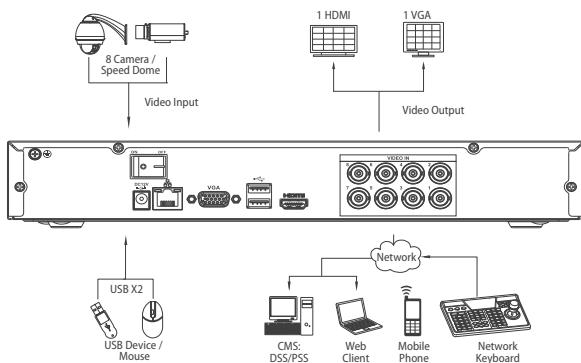
### Technical Specifications

Model	DH-HCVR7104HC-V2	DH-HCVR7108HC-V2
<b>System</b>		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
<b>Video</b>		
Input	4 channel, BNC	8 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
Display		
Interface	1 HDMI, 1 VGA	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4	1/4/8/9
Privacy Masking	4 rectangular zones (each camera)	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
<b>Recording</b>		
Video/Audio Compression	H.264/G.711	
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Record Rate	Main stream 1080P /720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps), D1(1~12/15fps)	
Bit Rate	48~6144Kb/s	
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop	
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
Video Detection		
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips	
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
Playback & Backup		
Sync Playback	1/4	1/4/9
Search Mode	Time/Date, MD & Exact search (accurate to second)	
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
Backup Mode	USB Device/Internal SATA burner/Network	
<b>Network</b>		
Ethernet	RJ-45 port (10/100M)	
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, SNMP, P2P	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
Storage		
Internal HDD	1 SATA port, up to 4TB	
Auxiliary Interface		
USB Interface	2 ports(2 Rear), USB2.0	
<b>General</b>		
Power Supply	DC12V/2A	
Power Consumption	10W(without HDD)	
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa	
Dimension(W×D×H)	Mini 1U, 325mm×255mm×55mm	
Weight	1.5kg (without HDD)	

### Features

- Up to 4/8 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR7104/7108HC-V2: All channel 1080P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\*Takes HCVR7108HC-V2 as an example

# DH-HCVR7104C-V2

**NEW!**

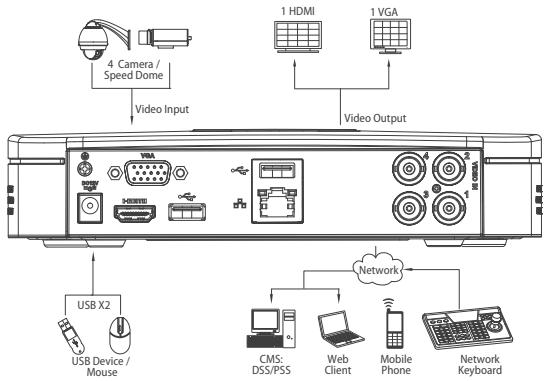
## 4CH 1080P Smart 1U HDCVI DVR



### Features

- Up to 4 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR7104C-V2: All channel 1080P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\*Takes HCVR7104C-V2 as an example

### Technical Specifications

Model		DH-HCVR7104C-V2
<b>System</b>		
Main Processor		Embedded processor
Operating System		Embedded LINUX
<b>Video</b>		
Input		4 channel, BNC
Standard		NTSC(525Line, 60f/s), PAL(625Line, 50f/s)
Display		
Interface		1 HDMI, 1 VGA
Resolution		1920×1080, 1280×1024, 1280×720, 1024×768, 800×600
Display Split		1/4
Privacy Masking		4 rectangular zones (each camera)
OSD		Camera title, Time, Video loss, Camera lock, Motion detection, Recording
<b>Recording</b>		
Video/Audio Compression		H.264/G.711
Resolution		1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)
Record Rate	Main stream	1080P/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)
	Extra stream	CIF/QCIF(1~25/30fps), D1(1~12/15fps)
Bit Rate		48~6144Kb/s
Record Mode		Manual, Schedule(Regular(Continuous), MD), Stop
Record Interval		1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
<b>Video Detection</b>		
Trigger Events		Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips
Video Detection		Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank
<b>Playback &amp; Backup</b>		
Sync Playback		1/4
Search Mode		Time/Date, MD & Exact search (accurate to second)
Playback Functions		Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Backup Mode		USB Device/Internal SATA burner/Network
<b>Network</b>		
Ethernet		RJ-45 port (10/100M)
Network Functions		HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, SNMP, P2P
Max. User Access		128 users
Smart Phone		iPhone, iPad, Android, Windows Phone
<b>Storage</b>		
Internal HDD		1 SATA port, up to 4TB
Auxiliary Interface		
USB Interface		2 ports(2 Rear), USB2.0
<b>General</b>		
Power Supply		DC12V/2A
Power Consumption		10W (without HDD)
Working Environment		-10°C ~+55°C / 10%~90%RH / 86~106kpa
Dimension(W×D×H)		205mm×205mm×40mm
Weight		0.5kg (without HDD)

# DH-HCVR5824/5832S

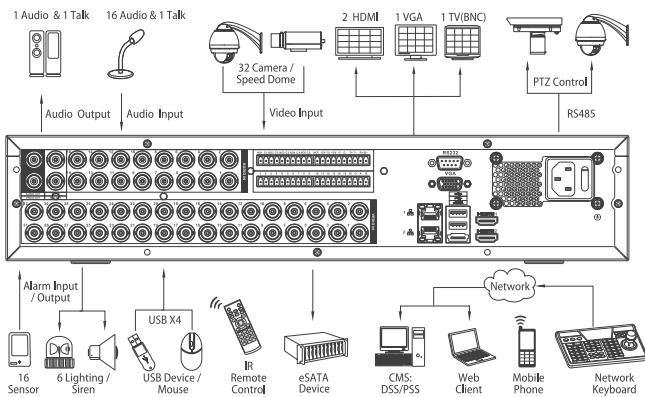
## 24/32CH 720P 2U HDCVI DVR



### Features

- Up to 24/32 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5824/5832S: All channel 720P realtime recording
- HDMI/VGA/TV simultaneous video output
- 16 channel synchronous realtime playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 8 SATA HDDs up to 32TB, 1 eSATA up to 16TB, 4 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR5832S as an example

### Technical Specifications

Model	DH-HCVR5824S	DH-HCVR5832S
<b>System</b>		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
<b>Video</b>		
Input	24 channel, BNC	32 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
<b>Audio</b>		
Input	16 channel, BNC	
Output	1 channel, BNC	
Two-way Talk	1 channel Input, 1 channel Output, BNC	
<b>Display</b>		
Interface	2 HDMI, 1 VGA, 1TV	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4/8/9/16/25	1/4/8/9/16/25/36
Privacy Masking	4 rectangular zones (each camera)	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
<b>Recording</b>		
Video/Audio Compression	H.264/G.711	
Resolution	720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Record Rate	Main stream 720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)	
Bit Rate	48~4096Kb/s	
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop	
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
<b>Video Detection &amp; Alarm</b>		
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips	
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
Alarm Input	16 channel	
Relay Output	6 channel	
<b>Playback &amp; Backup</b>		
Sync Playback	1/4/9/16	
Search Mode	Time/Date, MD & Exact search (accurate to second)	
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
Backup Mode	USB Device/eSATA Device/Internal SATA burner/Network	
<b>Network</b>		
Ethernet	2RJ-45 port (10/100M/1000M)	
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
<b>Storage</b>		
Internal HDD	8 SATA ports, up to 32TB	
External HDD	1 eSATA port, up to 16TB	
<b>Auxiliary Interface</b>		
USB Interface	4 ports (2 Rear), USB2.0	
RS232	1 port, For PC communication & Keyboard	
RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard	
<b>General</b>		
Power Supply	AC 100~240 V, 50/60 Hz	
Power Consumption	40W (without HDD)	
Working Environment	-10 ~+55°C / 10~90%RH / 86~106kpa	
Dimension(W×D×H)	2U, 440mm×460mm×89mm	
Weight	6.5kg (without HDD)	

# DH-HCVR5424/5432L

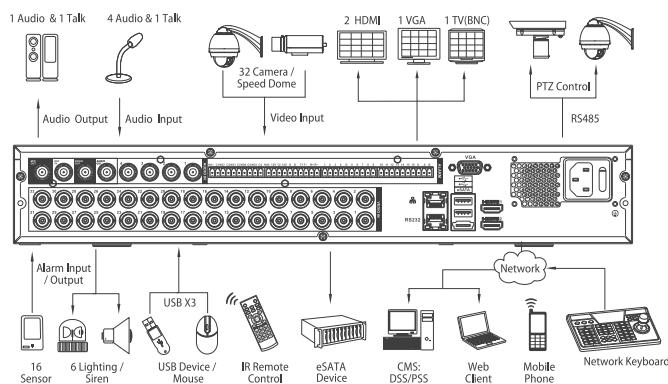
## 24/32CH 720P 1.5U HDCVI DVR



### Features

- Up to 24/32 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5424/5432L: All channel 720P realtime recording
- HDMI/VGA/TV simultaneous video output
- 16 channel synchronous realtime playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 4 SATA HDDs up to 16TB, 1 eSATA up to 16TB, 3 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR5432L as an example

### Technical Specifications

Model	DH-HCVR5424L	DH-HCVR5432L
<b>System</b>		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
<b>Video</b>		
Input	24 channel, BNC	32 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
<b>Audio</b>		
Input	4 channel, BNC	
Output	1 channel, BNC	
Two-way Talk	1 channel Input, 1 channel Output, BNC	
<b>Display</b>		
Interface	2 HDMI, 1 VGA, 1TV	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4/8/9/16/25	1/4/8/9/16/25/36
Privacy Masking	4 rectangular zones (each camera)	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
<b>Recording</b>		
Video/Audio Compression	H.264/G.711	
Resolution	720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Record Rate	Main stream 720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)	
Bit Rate	48~4096Kbps	
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop	
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
<b>Video Detection &amp; Alarm</b>		
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips	
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
Alarm Input	16 channel	
Relay Output	6 channel	
<b>Playback &amp; Backup</b>		
Sync Playback	1/4/9/16	
Search Mode	Time/Date, MD & Exact search (accurate to second)	
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
Backup Mode	USB Device/eSATA Device/Internal SATA burner/Network	
<b>Network</b>		
Ethernet	RJ-45 port (10/100M/1000M)	
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTR, IP Filter, SNMP, P2P	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
<b>Storage</b>		
Internal HDD	4 SATA ports, up to 16TB	
External HDD	1 eSATA port, up to 16TB	
<b>Auxiliary Interface</b>		
USB Interface	3 ports (2 Rear), USB2.0	
RS232	1 port, For PC communication & Keyboard	
RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard	
<b>General</b>		
Power Supply	AC 100~240 V, 50/60 Hz	
Power Consumption	40W (without HDD)	
Working Environment	-10 ~+55°C / 10~90%RH / 86~106kpa	
Dimension(W×D×H)	1.5U, 440mm×416mm×68mm	
Weight	6.0kg (without HDD)	

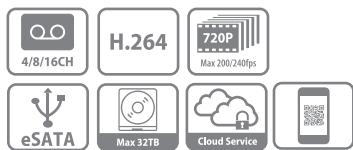
HDCVI DVR

HDCVI Camera

HDCVI PTZ Camera

# DH-HCVR5804/5808/5816S

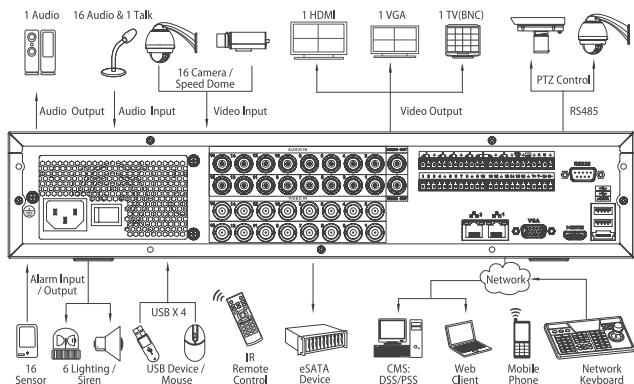
## 4/8/16CH 720P 2U HDCVI DVR



### Features

- Up to 4/8/16 channel video 1080p realtime live view
- H.264 dual-stream video compression
- HCVR5804/5808/5816S: All channel 720P realtime recording
- HDMI / VGA / TV simultaneous video output
- 4/8 channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ camera
- Support 8 SATA HDDs up to 32TB, 1 eSATA up to 16TB, 4 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



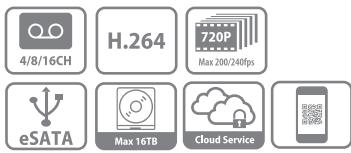
\* Takes HCVR5816S as an example

### Technical Specifications

Model	DH-HCVR5804S	DH-HCVR5808S	DH-HCVR5816S
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
<b>Audio</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Output	1 channel, BNC		
Two-way Talk	Reuse audio input/output channel 1		
<b>Display</b>			
Interface	1 HDMI, 1 VGA ,1 TV		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264 / G.711		
Resolution	720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream 720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Scheduler(Regular/Continuous), MD, Alarm), Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Event	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	6 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device / eSATA Device / Internal SATA burner/ Network		
<b>Network</b>			
Ethernet	2RJ-45 port (10/100M/1000M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, Alarm Server, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	8 SATA ports (8HDDs or 6HDDs+1CD/DVD-RW), up to 32TB		
External HDD	1 eSATA port (Max 4 SATA HDDs), up to 16TB		
<b>Auxiliary Interface</b>			
USB Interface	4 ports (2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard		
<b>General</b>			
Power Supply	AC 100~240 V, 50/60 Hz		
Power Consumption	40W (without HDD)		
Working Environment	-10 ~+55°C / 10~90%RH / 86~106kpa		
Dimension(W×D×H)	2U, 440mm×460mm×89mm		
Weight	6.5kg (without HDD)		

# DH-HCVR5404/5408/5416L

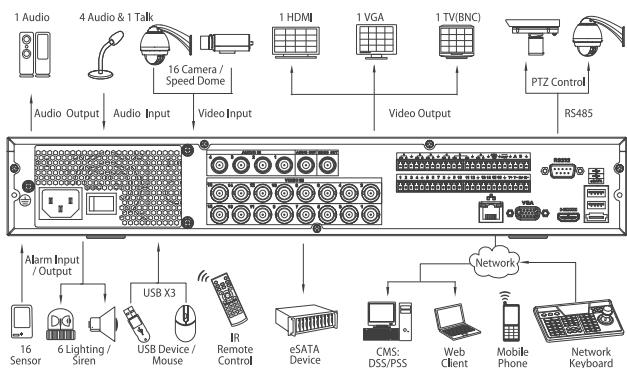
## 4/8/16CH 720P 1.5U HDCVI DVR



### Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5404/5408/5416L: All channel 720P realtime recording
- HDMI / VGA / TV simultaneous video output
- 4/8 channel synchronous realtime playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 4 SATA HDDs up to 16TB, 1 eSATA up to 16TB, 3 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR5416L as an example

### Technical Specifications

Model	DH-HCVR5404L	DH-HCVR5408L	DH-HCVR5416L
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
<b>Audio</b>			
Input	4 channel, BNC		
Output	1 channel, BNC		
Two-way Talk	Reuse audio input/output channel 1		
<b>Display</b>			
Interface	1 HDMI, 1 VGA, 1TV		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264 / G.711		
Resolution	720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream 720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	6 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device / eSATA Device / Internal SATA burner/ Network		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M/1000M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	4 SATA ports, up to 16TB		
External HDD	1 eSATA port (Max 4 SATA HDDs), up to 16TB		
<b>Auxiliary Interface</b>			
USB Interface	3 ports (2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port RS485 for PTZ control, 1 port RS422 for Keyboard		
<b>General</b>			
Power Supply	AC 100~240 V, 50/60 Hz		
Power Consumption	40W (without HDD)		
Working Environment	-10 ~ +55°C / 10~90%RH / 86~106kpa		
Dimension(W×D×H)	1.5U, 440mm×416mm×68mm		
Weight	6.0kg (without HDD)		

# DH-HCVR5204/5208/5216L

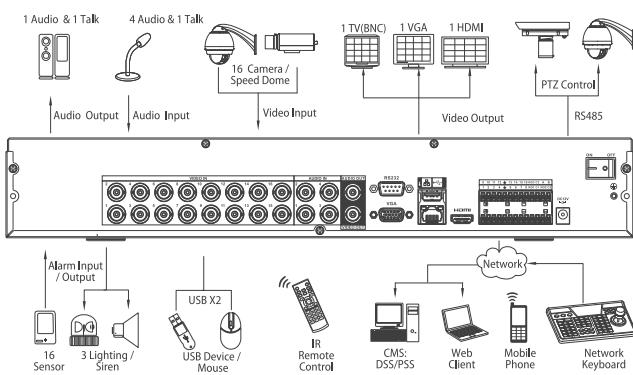
## 4/8/16CH 720P 1.5U HDCVI DVR



### Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5204/5208/5216L: All channel 720P realtime recording
- HDMI/VGA/TV simultaneous video output
- 4/8 channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 2 SATA HDDs up to 8TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR5216L as an example

### Technical Specifications

Model	DH-HCVR5204L	DH-HCVR5208L	DH-HCVR5216L
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
<b>Audio</b>			
Input	4 channel, BNC		
Output	1 channel, BNC		
Two-way Talk	Reuse audio input/output channel 1		
<b>Display</b>			
Interface	1 HDMI, 1 VGA, 1 TV		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264/G.711		
Resolution	720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream 720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	3 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device/Internal SATA burner/Network		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M/1000M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	2 SATA ports, up to 8TB		
<b>Auxiliary Interface</b>			
USB Interface	2 ports(1 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port, For PTZ control		
<b>General</b>			
Power Supply	DC12V/5A		
Power Consumption	15W(without HDD)		
Working Environment	-10 ~+55°C / 10~90%RH / 86~106kpa		
Dimension(W×D×H)	1.5U, 440mm×416mm×68mm		
Weight	5.0kg (without HDD)		

# DH-HCVR5204/5208/5216A

## 4/8/16CH 720P 1U HDCVI DVR

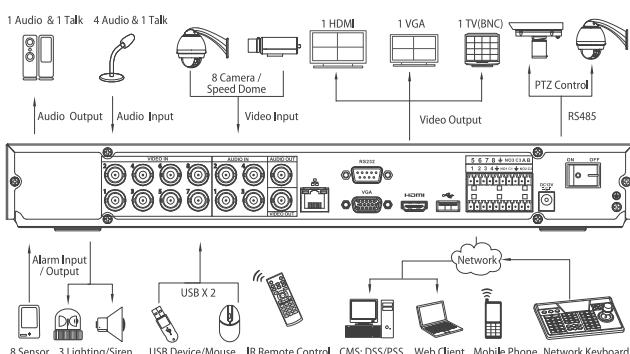
### Technical Specifications



### Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5204/5208/5216A: All channel 720P realtime recording
- HDMI/VGA/TV simultaneous video output
- 4/8 channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 2 SATA HDDs up to 8TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR5208A as an example

Model	DH-HCVR5204A	DH-HCVR5208A	DH-HCVR5216A
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
<b>Audio</b>			
Input	4 channel, BNC		
Output	1 channel, BNC		
Two-way Talk	Reuse audio input/output channel 1		
<b>Display</b>			
Interface	1 HDMI, 1 VGA, 1 TV		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264 / G.711		
Resolution	720P(1280×720) / 960H(960×576/960×480) / D1 / 4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream 720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Event	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	3 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device / Network / Internal SATA burner		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M/1000M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	2 SATA ports, up to 8TB		
<b>Auxiliary Interface</b>			
USB Interface	2 ports(1 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port, For PTZ control		
<b>General</b>			
Power Supply	DC12V/5A		
Power Consumption	15W(without HDD)		
Working Environment	-10 ~+55°C / 10~90%RH / 86~106kpa		
Dimension(W×D×H)	1U, 375mm×285mm×55mm		
Weight	2.35kg (without HDD)		

# DH-HCVR5104/5108/5116HE-V2

**NEW!**

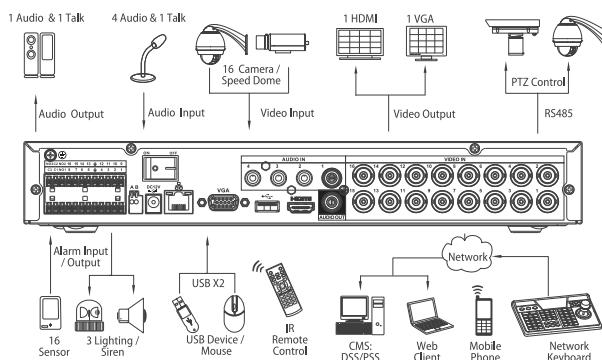
## 4/8/16CH 720P Mini 1U HDCVI DVR



### Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5104/5108/5116HE-V2: All channel 720P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\*Takes HCVR5116HE-V2 as an example

### Technical Specifications

Model	DH-HCVR5104HE-V2	DH-HCVR5108HE-V2	DH-HCVR5116HE-V2
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel	8 channel	16 channel
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
<b>Audio</b>			
Input	4 channel, RCA		
Output	1 channel, RCA		
Two-way Talk	Reuse audio input/output channel 1		
<b>Display</b>			
Interface	1 HDMI, 1 VGA		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264/G.711		
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / 0 CIF(176×144/176×120)		
Record Rate	Main stream 1080P(1~12/15fps)/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps), D1(1~12/15fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Schedule/Regular(Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection &amp; Alarm</b>			
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
Alarm Input	4 channel	8 channel	16 channel
Relay Output	3 channel		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device/Internal SATA burner/Network		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	1 SATA port, up to 4TB		
Auxiliary Interface			
USB Interface	2 ports(1 Rear), USB2.0		
RS485	1 port, For PTZ Control		
<b>General</b>			
Power Supply	DC12V/2A		
Power Consumption	10W (without HDD)		
Working Environment	-10°C ~ +55°C / 10%~90%RH / 86~106kpa		
Dimension(W×D×H)	Mini 1U, 325mm×255mm×55mm		
Weight	1.5kg (without HDD)		

# DH-HCVR5104/5108/5116H-V2

**NEW!**

## 4/8/16CH 720P Mini 1U HDCVI DVR

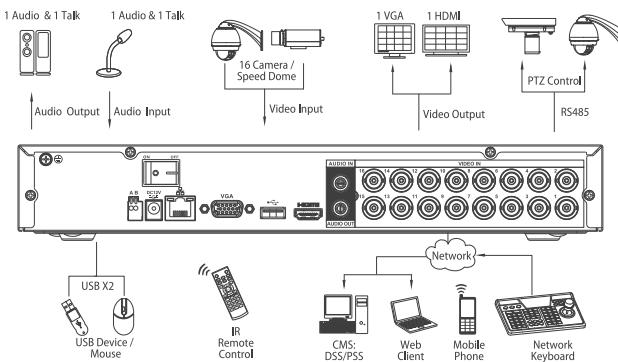
### Technical Specifications



### Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5104/5108/5116H-V2: All channel 720P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\*Takes HCVR5116H-V2 as an example

Model	DH-HCVR5104H-V2	DH-HCVR5108H-V2	DH-HCVR5116H-V2
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
Audio			
Input	1 channel, RCA		
Output	1 channel, RCA		
Two-way Talk	Reuse audio input/output channel 1		
<b>Display</b>			
Interface	1 HDMI, 1 VGA		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264/G.711		
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream 1080P(1~12/15fps)/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps), D1(1~12/15fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection</b>			
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device/Internal SATA burner/Network		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
Storage			
Internal HDD	1 SATA port, up to 4TB		
<b>Auxiliary Interface</b>			
USB Interface	2 ports(1 Rear), USB2.0		
RS485	1 port, For PTZ Control		
<b>General</b>			
Power Supply	DC12V/2A		
Power Consumption	10W (without HDD)		
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa		
Dimension(W×D×H)	Mini 1U, 325mm×255mm×55mm		
Weight	1.5kg (without HDD)		

# DH-HCVR5104/5108/5116HC-V2

**NEW!**

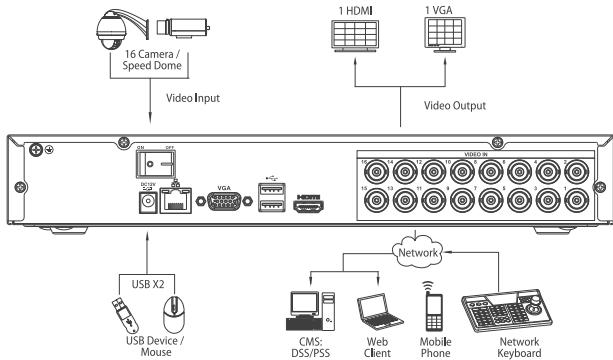
## 4/8/16CH 720P Mini 1U HDCVI DVR



### Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5104/5108/5116HC-V2: All channel 720P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback,  
GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\* Takes HCVR5116HC-V2 as an example

### Technical Specifications

Model	DH-HCVR5104HC-V2	DH-HCVR5108HC-V2	DH-HCVR5116HC-V2
<b>System</b>			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
<b>Video</b>			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
Display			
Interface	1 HDMI, 1 VGA		
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600		
Display Split	1/4	1/4/8/9	1/4/8/9/16
Privacy Masking	4 rectangular zones (each camera)		
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
<b>Recording</b>			
Video/Audio Compression	H.264/G.711		
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)		
Record Rate	Main stream 1080P(1~12/15fps)/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps), D1(1~12/15fps)		
Bit Rate	48~4096Kb/s		
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop		
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
<b>Video Detection</b>			
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips		
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank		
<b>Playback &amp; Backup</b>			
Sync Playback	1/4	1/4/9	1/4/9/16
Search Mode	Time/Date, MD & Exact search (accurate to second)		
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
Backup Mode	USB Device/Internal SATA burner/Network		
<b>Network</b>			
Ethernet	RJ-45 port (10/100M)		
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
<b>Storage</b>			
Internal HDD	1 SATA port, up to 4TB		
Auxiliary Interface			
USB Interface	2 ports(2 Rear), USB2.0		
<b>General</b>			
Power Supply	DC12V/2A		
Power Consumption	10W (without HDD)		
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa		
Dimension(W×D×H)	Mini 1U, 325mm×255mm×55mm		
Weight	1.5kg (without HDD)		

# DH-HCVR5104/5108C-V2

**NEW!**

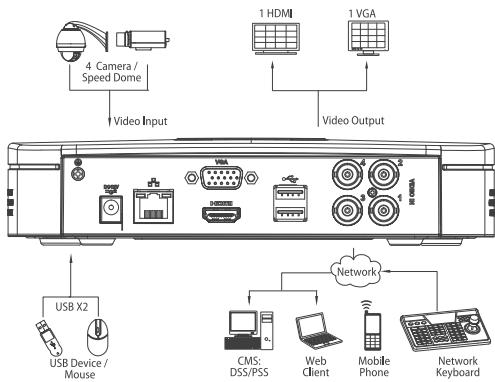
## 4/8CH 720P Smart 1U HDCVI DVR



### Features

- Up to 4/8 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5104/5108C-V2: All channel 720P realtime recording
- HDMI/VGA simultaneous video output
- All channel synchronous realtime playback,
- GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 1 SATA HDD up to 4TB, 2 USB2.0
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS

### System Connection



\*Takes HCVR5104C-V2 as an example

### Technical Specifications

Model	DH-HCVR5104C-V2	DH-HCVR5108C-V2
<b>System</b>		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
<b>Video</b>		
Input	4 channel, BNC	8 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
<b>Display</b>		
Interface	1 HDMI, 1 VGA	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4	1/4/8/9
Privacy Masking	4 rectangular zones (each camera)	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
<b>Recording</b>		
Video/Audio Compression	H.264/G.711	
Resolution	1080P(1920×1080)/720P(1280×720)/960H(960×576/960×480)/D1/4CIF(704×576/704×480) / CIF(352×288/352×240) / QCIF(176×144/176×120)	
Record Rate	Main stream Extra stream	1080P(1~12/15fps)/720P/960H/D1/HD1/2CIF/CIF(1~25/30fps) CIF/QCIF(1~25/30fps), D1(1~12/15fps)
Bit Rate	48~4096Kb/s	
Record Mode	Manual, Schedule(Regular/Continuous), MD, Stop	
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
<b>Video Detection</b>		
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Spot, Buzzer & Screen tips	
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	
<b>Playback &amp; Backup</b>		
Sync Playback	1/4	1/4/9
Search Mode	Time/Date, MD & Exact search (accurate to second)	
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
Backup Mode	USB Device/Internal SATA burner/Network	
<b>Network</b>		
Ethernet	RJ-45 port (10/100M)	
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
<b>Storage</b>		
Internal HDD	1 SATA port, up to 4TB	
<b>Auxiliary Interface</b>		
USB Interface	2 ports(2 Rear), USB2.0	
<b>General</b>		
Power Supply	DC12V/2A	
Power Consumption	10W (without HDD)	
Working Environment	-10°C ~+55°C / 10%~90%RH / 86~106kpa	
Dimension(W×D×H)	205mm×205mm×40mm	
Weight	0.5kg (without HDD)	



# HDCVI Camera

DAHUA TECHNOLOGY · MAKE YOUR LIFE SAFER

# DH-HAC-HFW2220R-Z NEW!

2.48Megapixel 1080P Water-proof HDCVI IR-Bullet Camera

## Technical Specifications

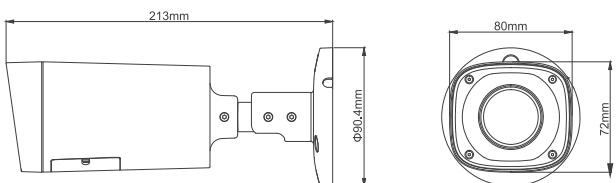


## Features

- 1/2.9" 2.48Megapixel CMOS
- 25/30@1080P, 25/30/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm motorized lens
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V

Model	DH-HAC-HFW2220RP-Z	DH-HAC-HFW2220RN-Z
<b>Camera</b>		
Image Sensor	1/2.9" 2.48Megapixel CMOS	
Effective Pixels	1984(H)×1105(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P, 25/30fps@1080P	
Synchronization	Internal	
Mini. Illumination	0.005Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm motorized	
Lens Type	Motorized / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 7.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	213mm×80mm×72mm	
Weight	0.55Kg	

## Dimensions (mm)



# DH-HAC-HFW2220R-VF NEW!

2.48Megapixel 1080P Water-proof HDCVI IR-Bullet Camera

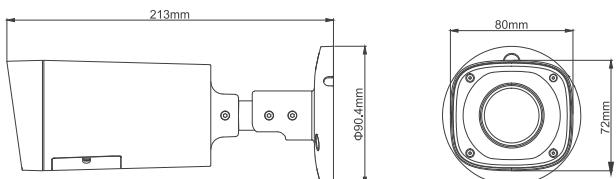
## Technical Specifications



## Features

- 1/2.9" 2.48Megapixel CMOS
- 25/30@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V

## Dimensions(mm)



Model	DH-HAC-HFW2220RP-VF	DH-HAC-HFW2220RN-VF
<b>Camera</b>		
Image Sensor	1/2.9" 2.48Megapixel CMOS	
Effective Pixels	1984(H)×1105(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.005Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	213mm×80mm×72mm	
Weight	0.55Kg	

# DH-HAC-HDBW2220R-Z

**NEW!**

## 2.48Megapixel 1080P Vandal-proof IR HDCVI Dome Camera

### Technical Specifications

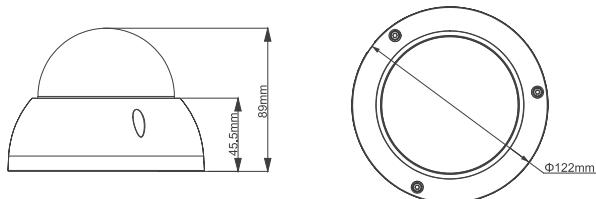


### Features

- 1/2.9" 2.48Megapixel CMOS
- 25/30@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm motorized lens
- Max. IR LEDs length 30m, Smart IR
- IP66, IK10, DC12V

Model	DH-HAC-HDBW2220RP-Z	DH-HAC-HDBW2220RN-Z
<b>Camera</b>		
Image Sensor	1/2.9" 2.48Megapixel CMOS	
Effective Pixels	1984(H)×1105(V)	
Electronic Shutter	1/3s-1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Mini, Illumination	0.005Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max, IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm motorized	
Lens Type	Motorized / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 9.6W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions(W×D×H)	Φ122mm×89mm	
Weight	0.45kg	

### Dimensions (mm)



# DH-HAC-HDBW2220R-VF NEW!

2.48Megapixel 1080P Vandal-proof IR HDCVI Dome Camera

## Technical Specifications

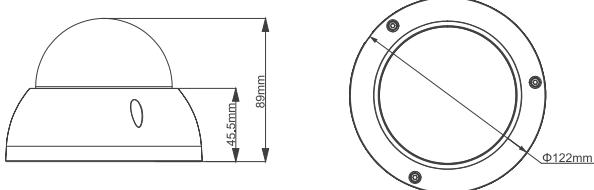


## Features

- 1/2.9" 2.48Megapixel CMOS
- 25/30@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, IK10, DC12V

Model	DH-HAC-HDBW2220RP-VF	DH-HAC-HDBW2220RN-VF
<b>Camera</b>		
Image Sensor	1/2.9" 2.48Megapixel CMOS	
Effective Pixels	1984(H)×1105(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.005Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions	Φ122mm×89mm	
Weight	0.45kg	

## Dimensions(mm)



# DH-HAC-HFW2200E

2Megapixel 1080P Water-proof HDCVI IR-Bullet Camera

## Technical Specifications

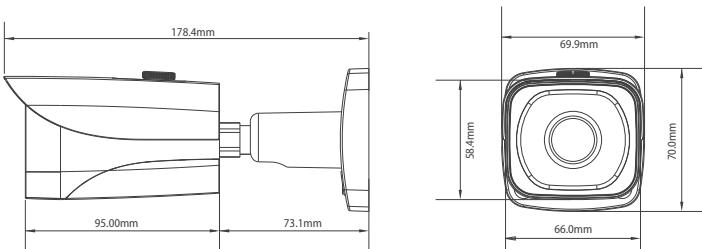


## Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- Full HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Model	DH-HAC-HFW2200EP	DH-HAC-HFW2200EN
<b>Camera</b>		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Mini. Illumination	0.05Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	6mm fixed lens (2.8mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	178.4mm×69.9mm×70.0mm	
Weight	0.5kg	

## Dimensions (mm)



# DH-HAC-HFW2200D(-B)

## 2Megapixel 1080P Water-proof IR HDCVI Camera



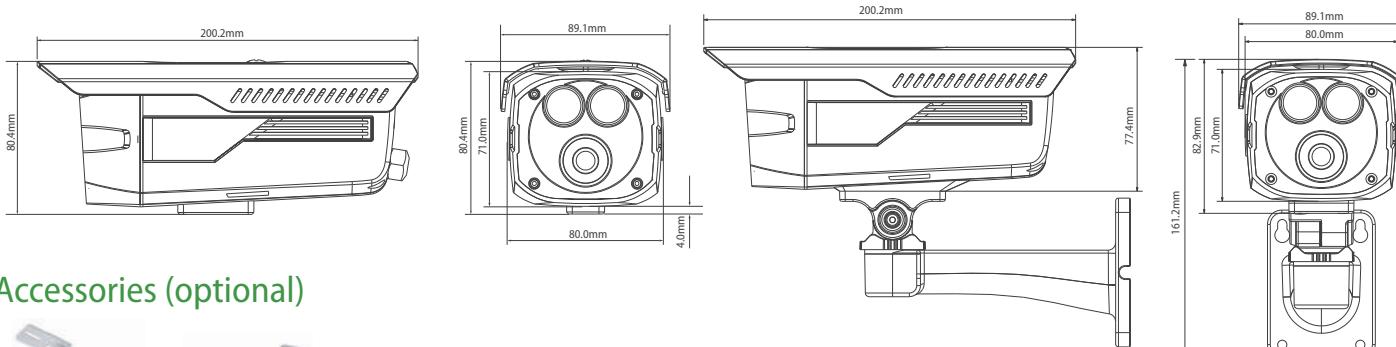
### Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 8mm fixed lens (3.6 mm, 6mm, 12mm, 16mm optional)
- Max. IR LEDs length 50m, Smart IR
- IP66, DC12V
- Default with bracket (HFW2200D-B)

### Technical Specifications

Model	DH-HAC-HFW2200DP	DH-HAC-HFW2200DN	DH-HAC-HFW2200DP-B	DH-HAC-HFW2200DN-B
<b>Camera</b>				
Image Sensor	1/3" 2Megapixel CMOS			
Effective Pixels	1920(H)×1080(V)			
Electronic Shutter	1/3(s)~1/100,000s			
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P			
Synchronization	Internal			
Min. Illumination	0.05Lux@F1.2(AGC ON), 0Lux IR on			
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)			
<b>Camera Features</b>				
Max. IR LEDs Length	50m, Smart IR			
Day/Night	Auto(ICR) / Color / B/W			
Noise Reduction	2D/3D			
OSD Menu	Support			
<b>Lens</b>				
Focal length	8mm fixed lens (3.6mm, 6mm, 12mm, 16mm optional)			
Mount Type	M12			
<b>General</b>				
Power Supply	DC12V±10%			
Power Consumption	Max 8W			
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)			
Transmission Distance	Over 300m via 75-3 coaxial cable			
Ingress Protection	IP66			
Dimensions(W×D×H)	200.2mm×89.1mm×80.4mm		200.2mm×89.1mm×161.2mm	
Weight	0.45kg		0.58kg	
Others	N/A		Default: bracket included	

### Dimensions(mm)



### Accessories (optional)



PFB120W

PFB121W

# DH-HAC-HFW2200B (-B)

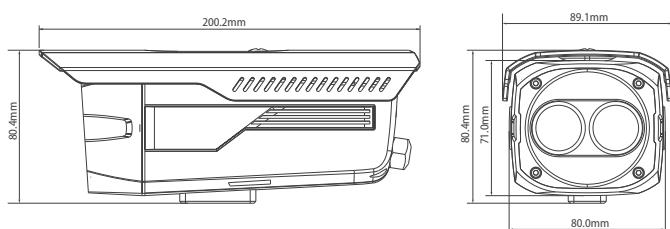
## 2Megapixel 1080P Water-proof IR HDCVI Camera



### Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V
- Default with bracket (HFW2200B-B)

### Dimensions(mm)



### Accessories (optional)



PFB120W

PFB121W

### Technical Specifications

Model	DH-HAC-HFW2200BP	DH-HAC-HFW2200BN	DH-HAC-HFW2200BP-B	DH-HAC-HFW2200BN-B
<b>Camera</b>				
Image Sensor	1/3" 2Megapixel CMOS			
Effective Pixels	1920(H)×1080(V)			
Electronic Shutter	1/3s~1/100,000s			
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P			
Synchronization	Internal			
Min. Illumination	0.05Lux@F1.2(AGC ON), 0Lux IR on			
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)			
<b>Camera Features</b>				
Max. IR LEDs Length	30m, Smart IR			
Day/Night	Auto(ICR) / B&W / Color			
Noise Reduction	3D/2D			
OSD Menu	Support			
<b>Lens</b>				
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)			
Mount Type	M12			
<b>General</b>				
Power Supply	DC12V±10%			
Power Consumption	Max 6.5W			
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)			
Transmission Distance	Over 300m via 75-3 coaxial cable			
Ingress Protection	IP66			
Dimensions(W×D×H)	200.2mm×89.1mm×80.4mm	200.2mm×89.1mm×161.2mm		
Weight	0.45kg	0.58kg		
Others	N/A	Default: bracket included		

# DH-HAC-HFW2200S

## 2Megapixel 1080P Water-proof IR HDCVI Camera

### Technical Specifications

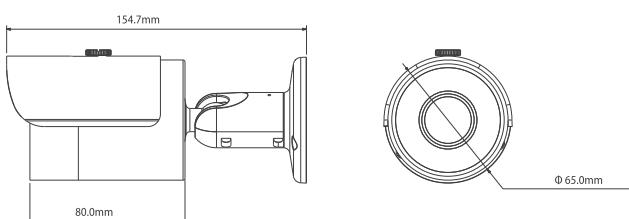


### Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Model	DH-CA-HFW2200SP	DH-CA-HFW2200SN
<b>Camera</b>		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ65mm×154.7mm	
Weight	0.38kg	
Others	Default: bracket included	

### Dimensions(mm)



### Accessories (optional)



PFA130

# DH-HAC-HFW2220RM

2.48Megapixel 1080P Water-proof HDCVI IR-Bullet Camera

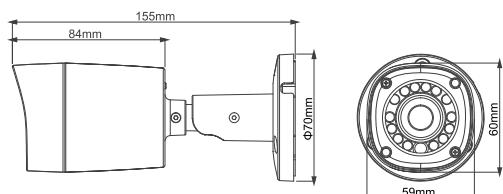
## Technical Specifications



## Features

- 1/2.9" 2.48Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (3.6mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

## Dimensions(mm)



Model	DH-HAC-HFW2220RMP	DH-HAC-HFW2220RMN
<b>Camera</b>		
Image Sensor	1/2.9" 2.48Megapixel CMOS	
Effective Pixels	1984(H)×1105(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.005Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	6mm fixed lens (3.6mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ70mm×155mm	
Weight	0.3Kg	
Others	Default: bracket included	

# DH-HAC-HDBW2200E NEW!

2Megapixel 1080P Vandal-proof IR HDCVI Dome Camera

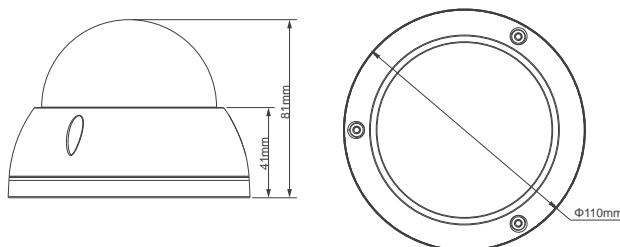
## Technical Specifications



## Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, IK10, DC12V

## Dimensions(mm)



Model	DH-HAC-HDBW2200EP	DH-HAC-HDBW2200EN
<b>Camera</b>		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	4/25s~1/45,000s	4/30s~1/54,000s
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions(W×D×H)	Φ110mm×81.0mm	
Weight	0.3Kg	

# DH-HAC-HDW2200M

2Megapixel 1080P Water-proof IR HDCVI Mini Dome Camera

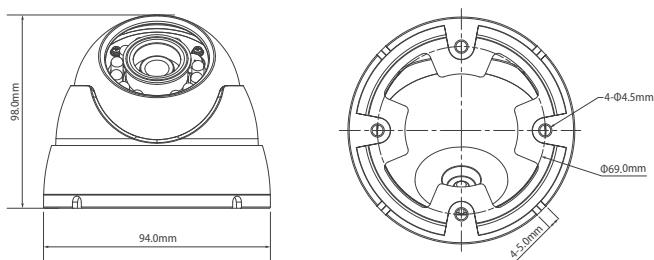
## Technical Specifications



## Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

## Dimensions(mm)



Model	DH-HAC-HDW2200MP	DH-HAC-HDW2200MN
<b>Camera</b>		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	3D/2D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 6W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	Φ94.0mm×98mm	
Weight	0.33kg	

# DH-HAC-HDW2200S

2Megapixel 1080P Water-proof IR HDCVI Mini Dome Camera



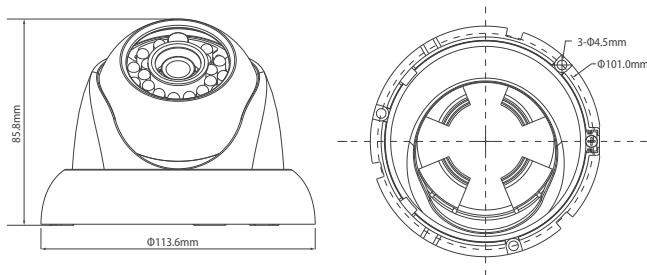
## Technical Specifications

Model	DH-HAC-HDW2200SP	DH-HAC-HDW2200SN
<b>Camera</b>		
Image Sensor	1/3" 2Mega CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/30/50/60fps@720P; 25/30fps@1080P	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	3D/2D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 3.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 300m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	Φ113.6mm×85.8mm	
Weight	0.3kg	

## Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 3.6mm fixed lens (2.8 mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

## Dimensions(mm)



## Accessories (optional)



PFA130

PFB200W

# DH-HAC-HFW2120R-Z

**NEW!**

## 1.4Megapixel 720P Water-proof HDCVI IR-Bullet Camera

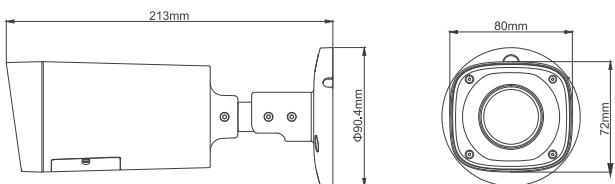
### Technical Specifications



### Features

- 1/3" 1.4Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V

### Dimensions(mm)



Model	DH-HAC-HFW2120RP-Z	DH-HAC-HFW2120RN-Z
<b>Camera</b>		
Image Sensor	1/3" 1.4Megapixel CMOS	
Effective Pixels	1305(H)×1049(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.002Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 7.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	213mm×80mm×72mm	
Weight	0.55Kg	

# DH-HAC-HFW2120R-VF NEW!

1.4Megapixel 720P Water-proof HDCVI IR-Bullet Camera

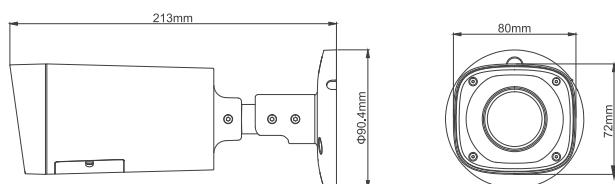
## Technical Specifications



## Features

- 1/3" 1.4Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V

## Dimensions(mm)



Model	DH-HAC-HFW2120RP-VF	DH-HAC-HFW2120RN-VF
<b>Camera</b>		
Image Sensor	1/3" 1.4Megapixel CMOS	
Effective Pixels	1305(H)×1049(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.002Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	213mm×80mm×72mm	
Weight	0.55Kg	

# DH-HAC-HF3101

## 1.3Megapixel 720P WDR HDCVI Camera

### Technical Specifications

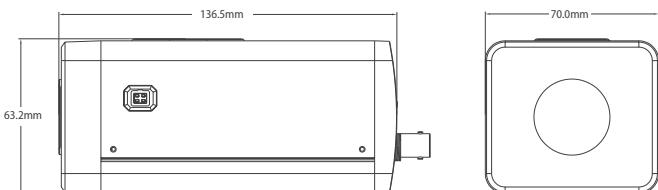


### Features

- 1/3" 1.3Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- OSD Menu, control over coaxial cable
- WDR(120dB), Day/Night(ICR), 3D-DNR, Auto Iris
- AC24V/DC12V

Model	DH-HAC-HF3101P	DH-HAC-HF3101N
<b>Camera</b>		
Image Sensor	1/3" 1.3Megapixel CMOS	
Effective Pixels	1280(H)×960(V)	
Electronic Shutter	1/1s~1/10,000s	
Video Frame Rate	25/30fps@720P	
Synchronization	Internal	
Min. Illumination	Color: 0.01Lux@F1.2(AGC ON) ; B/W: 0.001Lux@F1.2(AGC ON)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Day/Night	Auto(ICR) / Color / B/W	
Backlight Compensation	WDR (120dB)	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	N/A	
Mount Type	C/CS	
<b>Auxiliary Interface</b>		
RS485	1	
Alarm	1 channel out	
Audio	1 channel in	
<b>General</b>		
Power Supply	AC24V/DC12V	
Power Consumption	Max 7W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Dimensions(W×D×H)	70mm×63.2mm×136.5mm	
Weight	0.65kg	

### Dimensions (mm)



### Accessories (optional)



PFB120W

PFB121W

# DH-HAC-HDBW2120R-Z

**NEW!**

## 1.4Megapixel 720P Vandal-proof IR HDCVI Dome Camera

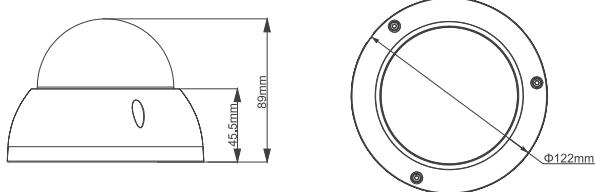
### Technical Specifications



### Features

- 1/3" 1.4Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm motorized lens
- Max. IR LEDs length 30m, Smart IR
- IP66, IK10, DC12V

### Dimensions(mm)



Model	DH-HAC-HDBW2120RP-Z	DH-HAC-HDBW2120RN-Z
<b>Camera</b>		
Image Sensor	1/3" 1.4Megapixel CMOS	
Effective Pixels	1305(H)×1049(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.002Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Motorized / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 9.6W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions	Φ122mm×89mm	
Weight	0.45kg	

# DH-HAC-HDBW2120R-VF NEW!

1.4Megapixel 720P Vandal-proof IR HDCVI Dome Camera

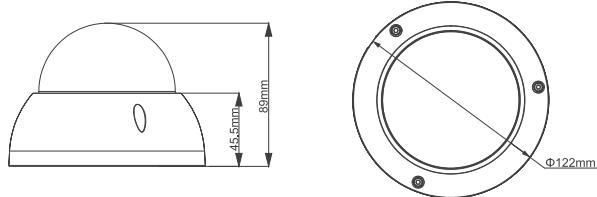
## Technical Specifications



## Features

- 1/3" 1.4Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, IK10, DC12V

## Dimensions(mm)



Model	DH-HAC-HDBW2120RP-VF	DH-HAC-HDBW2120RN-VF
<b>Camera</b>		
Image Sensor	1/3" 1.4Megapixel CMOS	
Effective Pixels	1305(H)×1049(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.002Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions	Φ122mm×89mm	
Weight	0.45kg	

# DH-HAC-HFW2100E

## 1.3Megapixel 720P Water-proof HDCVI IR-Bullet Camera

### Technical Specifications

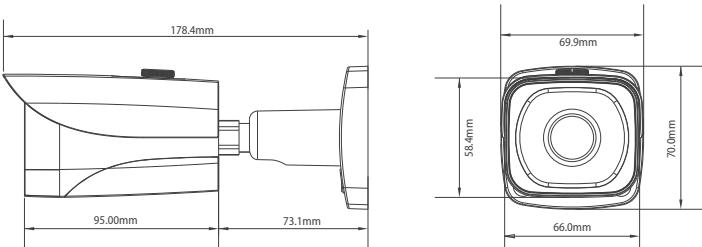


### Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Model	DH-HAC-HFW2100EP	DH-HAC-HFW2100EN
<b>Camera</b>		
Image Sensor	1/3" 1.3Megapixel CMOS	
Effective Pixels	1280(H)×960(V)	
Electronic Shutter	4/25s~1/45,000s	4/30s~1/54,000s
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Mini. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	6mm fixed lens (2.8mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4.2W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	178.4mm×69.9mm×70.0mm	
Weight	0.5kg	

### Dimensions (mm)



# DH-HAC-HFW2100S

## 1.3Megapixel 720P Water-proof IR HDCVI Camera

### Technical Specifications

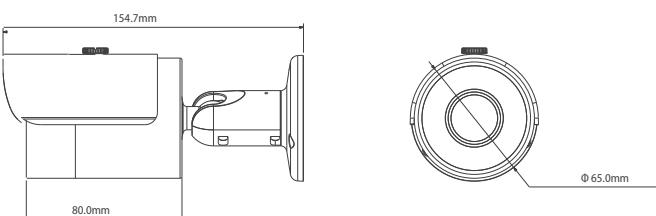


### Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Model	DH-CA-HFW2100SP	DH-CA-HFW2100SN
<b>Camera</b>		
Image Sensor	1/3" 1.3Megapixel CMOS	
Effective Pixels	1280(H)×960(V)	
Electronic Shutter	4/25s~1/45,000s	4/30~1/54,000s
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4.2W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ65mm×154.7mm	
Weight	0.38kg	
Others	Default: bracket included	

### Dimensions(mm)



### Accessories (optional)



PFA130

# DH-HAC-HFW2120RM

**NEW!**

## 1.4Megapixel 720P Water-proof HDCVI IR-Bullet Camera



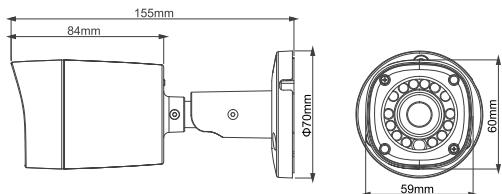
### Features

- 1/3" 1.4Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR,
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

### Technical Specifications

Model	DH-HAC-HFW2120RMP	DH-HAC-HFW2120RMN
<b>Camera</b>		
Image Sensor	1/3" 1.4Megapixel CMOS	
Effective Pixels	1305(H)×1049(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.002Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	2D/3D	
OSD Menu	Support	
<b>Lens</b>		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ70mm×155mm	
Weight	0.3kg	
Others	Default: bracket included	

### Dimensions(mm)



# DH-HAC-HFW2100D(-B)

## 1.3Megapixel 720P Water-proof IR HDCVI Camera



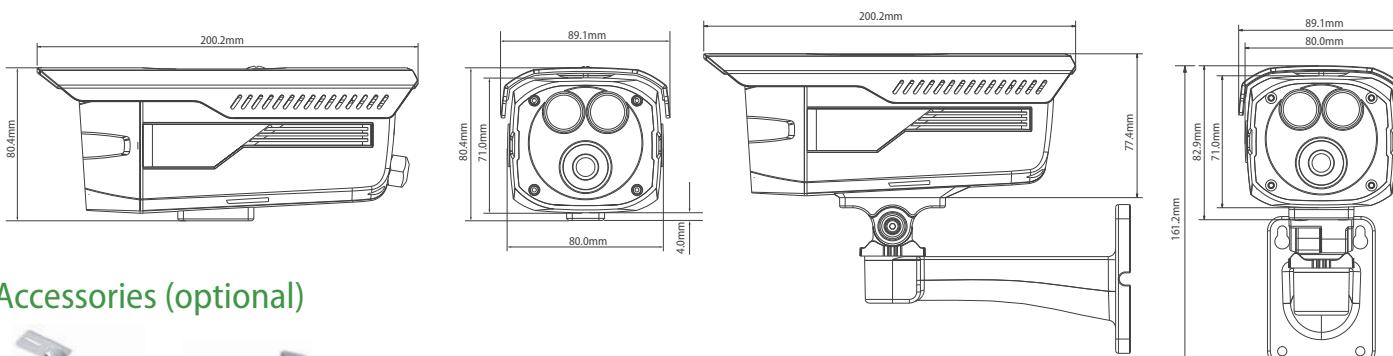
### Technical Specifications

Model	DH-HAC-HFW2100DP	DH-HAC-HFW2100DN	DH-HAC-HFW2100DP-B	DH-HAC-HFW2100DN-B
<b>Camera</b>				
Image Sensor	1/3" 1.3Megapixel CMOS			
Effective Pixels	1280(H)×960(V)			
Electronic Shutter	PAL: 4/25s~1/45,000s; NTSC: 4/30~1/54,000s			
Video Frame Rate	25/30/50/60fps@720P			
Synchronization	Internal			
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on			
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)			
<b>Camera Features</b>				
Max. IR LEDs Length	50m, Smart IR			
Day/Night	Auto(ICR) / Color / B/W			
Noise Reduction	2D/3D			
OSD Menu	Support			
<b>Lens</b>				
Focal length	8mm fixed lens (3.6mm, 6mm,12mm,16mm optional)			
Mount Type	M12			
<b>General</b>				
Power Supply	DC12V±10%			
Power Consumption	Max 7.7W			
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)			
Transmission Distance	Over 500m via 75-3 coaxial cable			
Ingress Protection	IP66			
Dimensions(W×D×H)	200.2mm×89.1mm×80.4mm	200.2mm×89.1mm×161.2mm		
Weight	0.45kg	0.58kg		
Others	N/A	Default: bracket included		

### Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 8mm fixed lens (3.6 mm, 6mm, 12mm, 16mm optional)
- Max. IR LEDs length 50m, Smart IR
- IP66, DC12V
- Default with bracket (HFW2100D-B)

### Dimensions(mm)



### Accessories (optional)



PFB120W

PFB121W

# DH-HAC-HFW2100B(-B)

## 1.3Megapixel 720P Water-proof IR HDCVI Camera



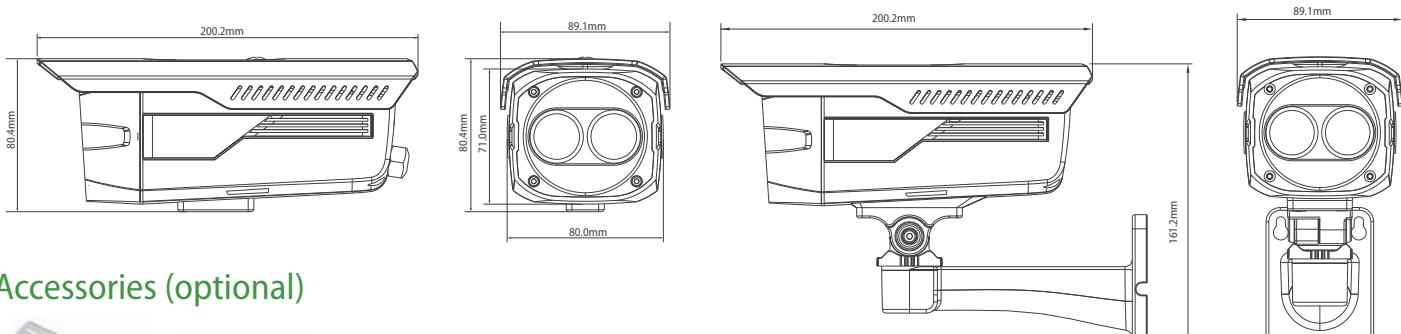
### Technical Specifications

Model	DH-HAC-HFW2100BP	DH-HAC-HFW2100BN	DH-HAC-HFW2100BP-B	DH-HAC-HFW2100BN-B
<b>Camera</b>				
Image Sensor	1/3" 1.3Megapixel CMOS			
Effective Pixels	1280(H)×960(V)			
Electronic Shutter	PAL: 4/25s~1/45,000s; NTSC: 4/30~1/54,000s			
Video Frame Rate	25/30/50/60fps@720P			
Synchronization	Internal			
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on			
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)			
<b>Camera Features</b>				
Max. IR LEDs Length	30m, Smart IR			
Day/Night	Auto(ICR) / B&W / Color			
Noise Reduction	3D/2D			
OSD Menu	Support			
<b>Lens</b>				
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)			
Mount Type	M12			
<b>General</b>				
Power Supply	DC12V±10%			
Power Consumption	Max 6W			
Working Environment	-30°C~+60°C Humidity is less than 95% (no condensation)			
Transmission Distance	Over 500m via 75-3 coaxial cable			
Ingress Protection	IP66			
Dimensions(W×D×H)	200.2mm×89.1mm×80.4mm	200.2mm×89.1mm×161.2mm		
Weight	0.45kg	0.58kg		
Others	N/A		Default: bracket included	

### Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V
- Default with bracket (HFW2100B-B)

### Dimensions(mm)



### Accessories (optional)



PFB120W

PFB121W

# DH-HAC-HDBW2120E

**NEW!**

1.4Megapixel 720P Vandal-proof IR HDCVI Dome Camera

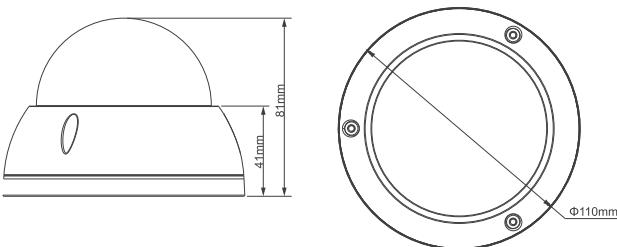
## Technical Specifications



## Features

- 1/3" 1.4Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, IK10, DC12V

## Dimensions(mm)



Model	DH-HAC-HDBW2120EP	DH-HAC-HDBW2120EN
<b>Camera</b>		
Image Sensor	1/3" 1.4Megapixel CMOS	
Effective Pixels	1305(H)×1049(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.002Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	3D/2D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions	Φ110mm×81.0mm	
Weight	0.3Kg	

# DH-HAC-HDW2100M

## 1.3Megapixel 720P Water-proof IR HDCVI Mini Dome Camera



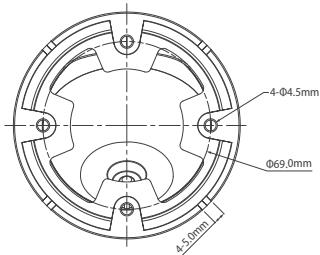
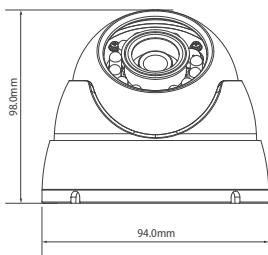
### Technical Specifications

Model	DH-HAC-HDW2100MP	DH-HAC-HDW2100MN
<b>Camera</b>		
Image Sensor	1/3" 1.3Megapixel CMOS	
Effective Pixels	1280(H)×960(V)	
Electronic Shutter	4/25s~1/45,000s	4/30s~1/54,000s
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	3D/2D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 6W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	Φ94.0mm×98mm	
Weight	0.33kg	

### Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

### Dimensions(mm)



# DH-HAC-HDW2100S

## 1.3Megapixel 720P Water-proof IR HDCVI Mini Dome Camera



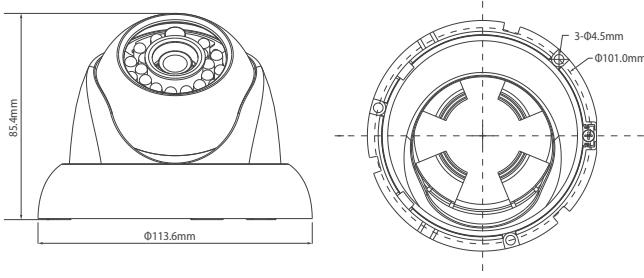
### Technical Specifications

Model	DH-HAC-HDW2100SP	DH-HAC-HDW2100SN
<b>Camera</b>		
Image Sensor	1/3" 1.3Mega CMOS	
Effective Pixels	1280(H)×960(V)	
Electronic Shutter	4/25s~1/45,000s	4/30~1/54,000s
Video Frame Rate	25/50fps@720P	30/60fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	3D/2D	
OSD Menu	Support	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 3.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	Φ113.6mm×85.4mm	
Weight	0.3kg	

### Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switchable
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

### Dimensions(mm)



### Accessories (optional)



PFA130



PFB200W

# DH-HAC-HFW1100R-VF

**NEW!**

## 1Megapixel 720P Water-proof HDCVI IR-Bullet Camera

### Technical Specifications

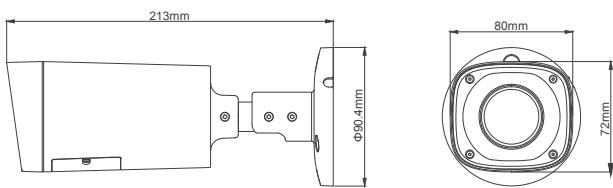


### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V

Model	DH-HAC-HFW1100RP-VF	DH-HAC-HFW1100RN-VF
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ90.4mm×213mm	
Weight	0.52Kg	

### Dimensions (mm)



# DH-HAC-HDBW1100R-VF NEW!

1Megapixel 720P Vandal-proof IR HDCVI Dome Camera

## Technical Specifications

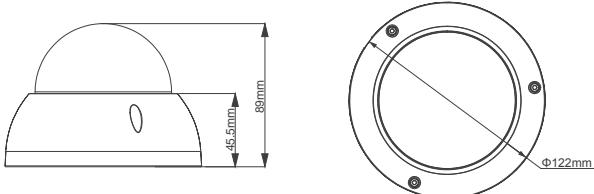


### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 2.7~12mm vari-focal lens
- Max. IR LEDs length 30m, Smart IR
- IP66, IK10, DC12V

Model	DH-HAC-HDBW1100RP-VF	DH-HAC-HDBW1100RN-VF
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal Length	2.7~12mm	
Lens Type	Manual / Fixed Iris	
Mount Type	Φ14	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions	Φ122mm×89mm	

### Dimensions(mm)



# DH-HAC-HFW1100RM NEW!

## 1Megapixel 720P Water-proof HDCVI IR-Bullet Camera

### Technical Specifications

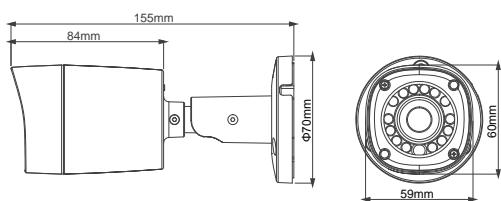


Model	DH-HAC-HFW1100RMP	DH-HAC-HFW1100RMN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	6mm fixed lens (3.6mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ70mm×155mm	
Weight	0.3Kg	
Others	Default: bracket included	

### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 6mm fixed lens (3.6mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

### Dimensions (mm)



# DH-HAC-HFW1100R

## 1Megapixel 720P Water-proof HDCVI IR-Bullet Camera

### Technical Specifications

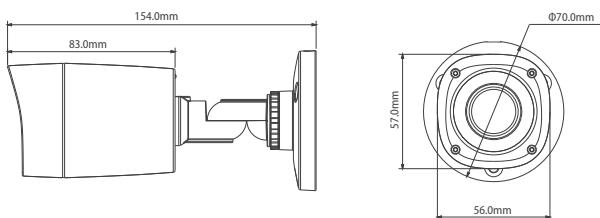


### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 6mm fixed lens (3.6mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Model	DH-HAC-HFW1100RP	DH-HAC-HFW1100RN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal Length	6mm fixed lens (3.6mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	Φ70mm×154mm	
Weight	0.2kg	

### Dimensions(mm)



# DH-HAC-HFW1100S

1Megapixel 720P Water-proof Mini IR HDCVICamera

## Technical Specifications

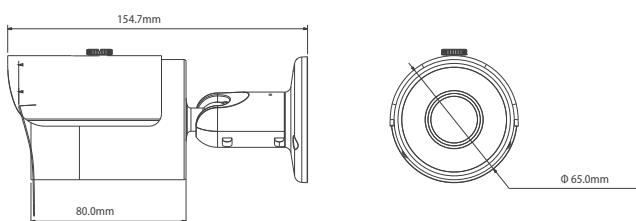


Model	DH-CA-HFW1100SP	DH-CA-HFW1100SN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2 (AGC ON), 0Lux IR LED on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 3.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ65mm×154.7mm	
Weight	0.38kg	
Others	Default: bracket included	

## Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

## Dimensions (mm)



## Accessories (optional)



PFA130

# DH-HAC-HFW1100D(-B)

1Megapixel 720P Water-proof IR HDCVI Camera



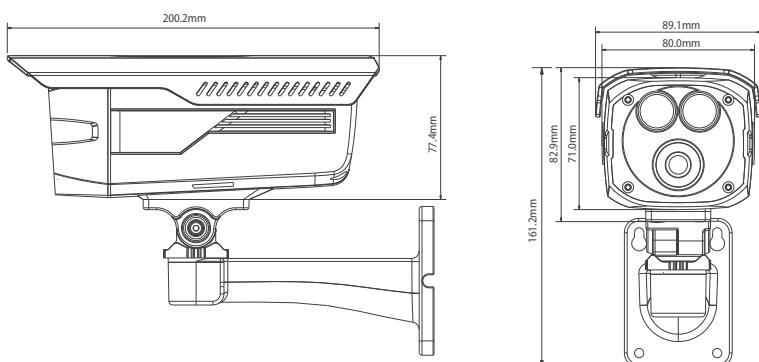
## Technical Specifications

Model	DH-CA-HFW1100DP(-B)	DH-CA-HFW1100DN(-B)
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2 (AGC ON), 0Lux IR LED on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	50m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	8mm (3.6 mm, 6mm, 12mm, 16mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 7W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	200.2mm×89.1mm×161.2mm	
Weight	0.58kg	
Others	Default: bracket included	

## Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 8mm fixed lens (3.6 mm, 6mm, 12mm, 16mm optional)
- Max. IR LEDs length 50m, Smart IR
- IP66, DC12V
- Default with bracket

## Dimensions(mm)



# DH-HAC-HFW1100B-(B)

## 1Megapixel 720P Water-proof IR HDCVI Camera



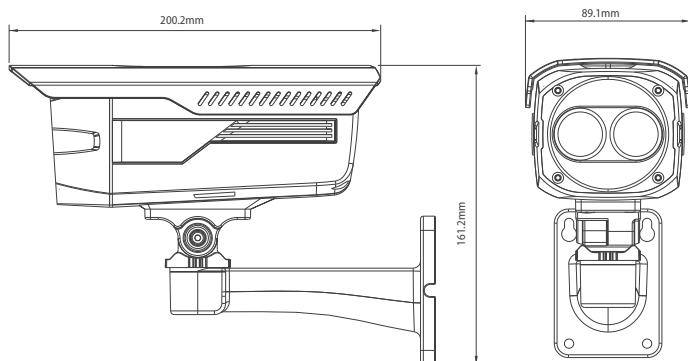
### Technical Specifications

Model	DH-CA-HFW1100BP-(B)	DH-CA-HFW1100BN-(B)
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2 (AGC ON), 0Lux IR LED on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / B&W / Color	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 4.9W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	200.2mm×89.1mm×161.2mm	
Weight	0.58kg	
Others	Default: bracket included	

### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 6mm fixed lens (2.8 mm, 3.6mm, 8mm optional)
- Max. IR LEDs length 30m, Smart IR
- IP66, DC12V
- Default with bracket

### Dimensions(mm)



# DH-HAC-HDBW1100E

1Megapixel 720P Vandal-proof IR HDCVI Mini Dome Camera



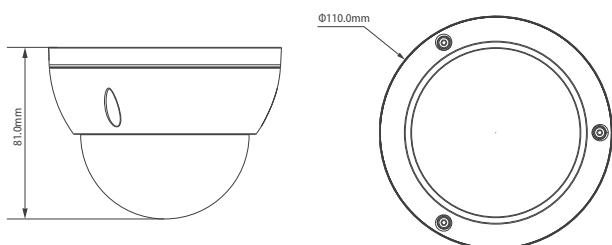
## Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, IK10, DC12V

## Technical Specifications

Model	DH-HAC-HDBW1100EP	DH-HAC-HDBW1100EN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66 & IK10	
Dimensions(W×D×H)	Φ110mm×81.0mm	
Weight	0.3Kg	

## Dimensions(mm)



# DH-HAC-HDW1100E NEW!

## 1Megapixel 720P IR HDCVI Mini Dome Camera

### Technical Specifications

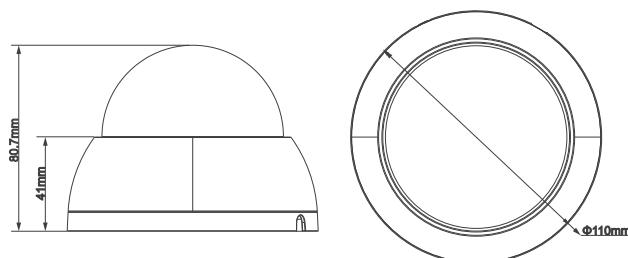


### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Model	DH-HAC-HDW1100EP	DH-HAC-HDW1100EN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions(W×D×H)	Φ110mm×80.7mm	
Weight	0.16Kg	

### Dimensions(mm)



# DH-HAC-HDW1100M

## 1Megapixel 720P Waterproof IR HDCVI Mini Dome Camera



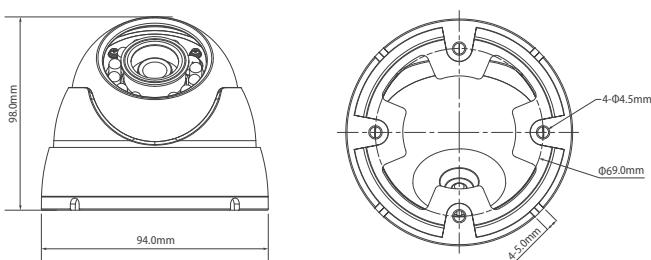
### Technical Specifications

Model	DH-HAC-HDW1100MP	DH-HAC-HDW1100MN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H) x720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Ingress Protection	IP66	
Dimensions	Φ94.0mm×98mm	
Weight	0.33kg	

### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

### Dimensions(mm)



# DH-HAC-HDW1100R

## 1Megapixel 720P IR HDCVI Mini Dome Camera



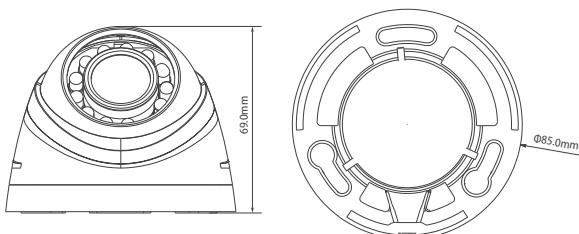
### Technical Specifications

Model	DH-HAC-HDW1100RP	DH-HAC-HDW1100RN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	3.6mm (6mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Dimensions	Φ85mm×69mm	
Weight	0.2kg	

### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (6mm optional)
- Max. IR LEDs length 20m, Smart IR
- DC12V

### Dimensions(mm)



### Accessories (optional)



PFA130



PFB200W

# DH-HAC-HDW1100C

## 1Megapixel 720P IR HDCVI Mini Dome Camera



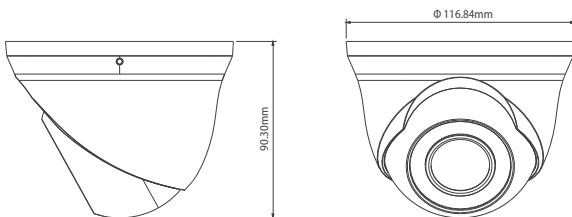
### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- DC12V

### Technical Specifications

Model	DH-HAC-HDW1100CP	DH-HAC-HDW1100CN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Dimensions	Φ116.84mm×90.3mm	
Weight	0.18kg	

### Dimensions (mm)



### Accessories (optional)



PFA130

PFB200W

# DH-HAC-HDW1100S

## 1Megapixel 720P IR HDCVI Mini Dome Camera



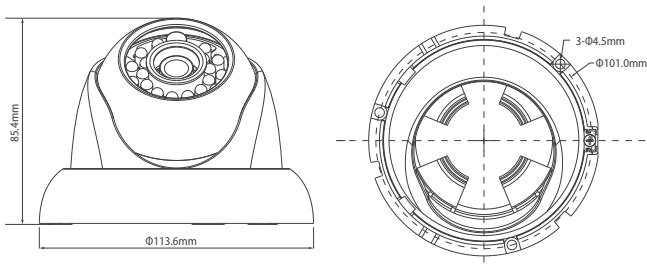
### Technical Specifications

Model	DH-HAC-HDW1100SP	DH-HAC-HDW1100SN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25fps@720P	30fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 2.5W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Dimensions	Φ113.6mm×85.4mm	
Weight	0.2kg	

### Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- DC12V

### Dimensions(mm)



### Accessories (optional)



PFA130

PFB200W

# DH-HAC-HD1100B

1Megapixel 720P HDCVI Mini Dome Camera



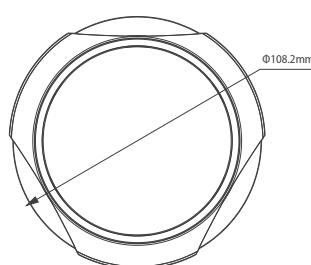
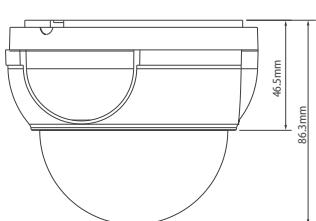
## Technical Specifications

Model	DH-HAC-HD1100BP	DH-HAC-HD1100BN
<b>Camera</b>		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60s~1/100,000s
Video Frame Rate	25 fps@720P	30 fps@720P
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON)	
Video Output	1-channel BNC HDCVI high definition video output	
<b>Camera Features</b>		
Day/Night	Auto(Electronic) / Color / B/W	
Noise Reduction	2D	
<b>Lens</b>		
Focal length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
<b>General</b>		
Power Supply	DC12V±10%	
Power Consumption	Max 1W	
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)	
Transmission Distance	Over 500m via 75-3 coaxial cable	
Dimensions	Φ108.2mm×86.3mm	
Weight	0.3kg	

## Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(Electronic), AWB, AGC, BLC, 2D-DNR
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- DC12V

## Dimensions (mm)





# HDCVI PTZ Camera

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# DH-SD63220I-HC

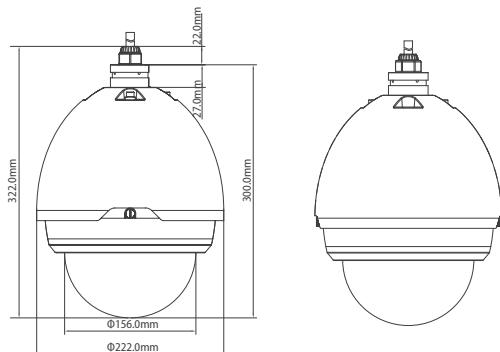
## 2Mp 20x Full HD HDCVI PTZ Dome Camera



### Features

- 20x optical zoom
- Max. 25/30fps@1080P (1920×1080) & 50/60fps@720P resolution
- DWDR, Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Control over coaxial cable, long distance real-time transmission
- Max 300°/s pan speed, 360° endless pan rotation
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IP66

### Dimensions (mm)



### Accessories



DH-63FB Power Supply

### Accessories(optional)



### Technical Specifications

Model	DH-SD63220I-HC
Camera	
Image Sensor	1/2.8" Exmor CMOS
Effective Pixels	1920(H)×1080(V), 2 Megapixels
Scanning System	Progressive
Electronic Shutter Speed	1/1~1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4
S/N Ratio	More than 50dB
Resolution	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
Camera Features	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D / 3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
Lens	
Focal Length	4.7mm~94mm (20x Optical zoom)
Max Aperture	F1.4~F2.6
Focus Control	Auto / Manual
Angle of View	H: 54.1°~3.2°
Close Focus Distance	100mm~1000mm
PTZ	
Pan/Tilt Range	Pan: 0°~360° endless; Tilt: -2°~90°, auto flip 180°
Manual Control Speed	Pan: 0.1°~300° /s; Tilt: 0.1°~150° /s
Preset Speed	Pan: 300° /s; Tilt: 200° /s
Preset	80 (DH-SD), 255 (Pelco-P/D)
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup	Human-oriented focal length / speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset / Pan / Scan / Tour / Pattern if there is no command in the specified period
Time Task	Auto activation of Preset / Pan / Scan / Tour / Pattern by preset-time
Protocol	DH-SD, Pelco-P/D (Auto recognition)
Audio	
Interface	1 channel In
Auxiliary Interface	
RS485	1
Alarm	2/1 channel In/Out
General	
Power Supply	AC 24V / 3A ( $\pm 10\%$ )
Power Consumption	9.5W, 21W (Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10(optional)
Dimensions	Ø222mm×322mm
Weight	6.8kg

# DH-SD6C220I-HC

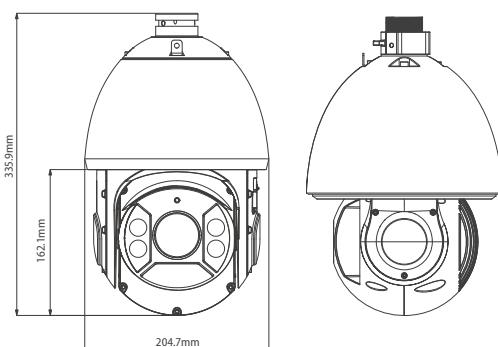
## 2Mp 20x Full HD HDCVI IR PTZ Dome Camera



### Features

- 20x optical zoom
- Max. 25/30fps@1080P(1920×1080) & 50/60fps@720P resolution
- DWDR, Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Control over coaxial cable, long distance real-time transmission
- Max 240°/s pan speed, 360° endless pan rotation
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IR Distance up to 100m
- IP66

### Dimensions (mm)



### Accessories



DH-64FB Power Supply

### Accessories(optional)



### Technical Specifications

Model	DH-SD6C220I-HC
<b>Camera</b>	
Image Sensor	1/2.8" Exmor CMOS
Effective Pixels	1920(H)×1080(V), 2Megapixels
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4; 0Lux (IR on)
S/N Ratio	More than 50dB
Resolution	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
<b>Camera Features</b>	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D / 3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
<b>Lens</b>	
Focal Length	4.7mm~94mm (20x Optical zoom)
Max Aperture	F1.4~F2.6
Focus Control	Auto / Manual
Angle of View	H: 54.1°~3.2°
Close Focus Distance	100mm~1000mm
<b>PTZ</b>	
Pan/Tilt Range	Pan: 0°~360° endless; Tilt: -15°~90°, auto flip 180°
Manual Control Speed	Pan: 0.1°~160° /s; Tilt: 0.1°~120° /s
Preset Speed	Pan: 240° /s; Tilt: 200° /s
Preset	80 (DH-SD), 255 (Pelco-P/D)
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset / Pan / Scan / Tour / Pattern if there is no command in the specified period
Time Task	Auto activation of Preset / Pan / Scan / Tour / Pattern by preset-time
Protocol	DH-SD, Pelco-P / D (Auto recognition)
IR Distance	100m (2 near IR LED+ 4 far IR LED)
<b>Audio</b>	
Interface	1 channel In
<b>Auxiliary Interface</b>	
RS485	1
Alarm	2/1 channel In/Out
<b>General</b>	
Power Supply	AC 24V/3A ( $\pm 10\%$ )
Power Consumption	10.5W, 26W (IR on, Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	N/A
Dimensions	Φ204.7mm×335.9mm
Weight	7.5kg

# DH-SD59220I-HC

**NEW!**

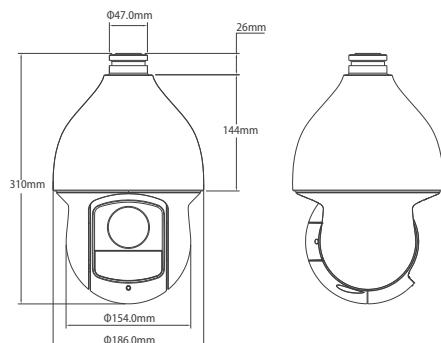
## 2Mp 20x Ultra-high Speed IR HDCVI PTZ Dome Camera



### Features

- 20x optical zoom
- Max. 25/30fps@1080P(1920×1080) & 50/60fps@720P resolution
- DWDR, Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Max 400°/s pan speed, 360° endless pan rotation
- Up to 300presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IR Distance up to 100m
- IP66

### Dimensions (mm)



### Technical Specifications

Model	DH-SD59220I-HC
Camera	
Image Sensor	1/2.8"ExmorCMOS
Effective Pixels	1920(H) x 1080(V), 2Megapixels
Horizontal Resolution	≥1000TVL
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4;0Lux (IR on)
S/N Ratio	More than 50dB
Resolution	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
Camera Features	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR(Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D/3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
Lens	
Focal Length	4.7mm~94mm (20x Optical zoom)
Max Aperture	F1.4~ F2.6
Focus Control	Auto / Manual
Angle of View	54.1° ~ 3.2°
PTZ	
Pan/Tilt Range	Pan: 0° ~ 360°endless;Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~300° /s;Tilt: 0.1° ~200° /s
Preset Speed	Pan:400° /s;Tilt: 300° /s
Preset	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan,Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/Pan/Scan/Tour/Pattern if there is no command in the specified period
Time Task	Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time
IR Distance	100m
Protocol	DH-SD, Pelco-P/D (Auto recognition)
Audio	
Interface	1 channel In
Auxiliary Interface	
RS485	1
Alarm	2/channel In/Out
General	
Power Supply	AC24V/ 3A (±10%)
Power Consumption	12W, 25W(IR on)
Working Environment	-40°C ~ 70°C / Less than 90% RH
Ingress Protection	IP66
Dimensions	Φ186(mm) x 310(mm)
Weight	3.5Kg

### Accessories-DH-SD59220I-HC



### Accessories(Optional)



# DH-SD59212I-HC

**NEW!**

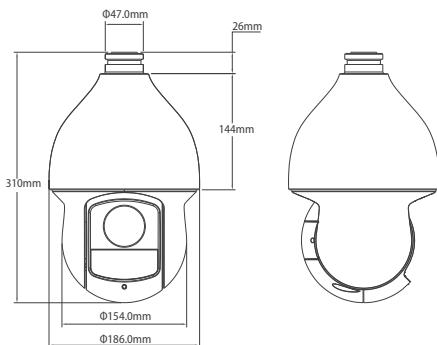
## 2Mp 12x Ultra-high Speed IR HDCVI PTZ Dome Camera



### Features

- 12x optical zoom
- Max. 25/30fps@1080P(1920x1080)&20/30/50/60fps@720P resolution
- DWDR,Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Max 400°/s pan speed, 360° endless pan rotation
- Up to 300presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IR Distance up to 100m
- IP66

### Dimensions (mm)



### Accessories



DH-64FB Power Supply

### Accessories(optional)



DH-64FB Power Supply

DH-PFA114

DH-PFB300C

DH-PFA112

DH-PFA113

DH-PFB301S

DH-PFA120

DH-PFA150

DH-PFA151

### Technical Specifications

Model	DH-SD59212I-HC
<b>Camera</b>	
Image Sensor	1/2.8"ExmorCMOS
Effective Pixels	1920(H) x 1080(V), 2Megapixels
Horizontal Resolution	≥1000TVL
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4; 0Lux (IR on)
S/N Ratio	More than 50dB
Resolution	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
<b>Camera Features</b>	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR(Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D/3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
Lens	
Focal Length	5.1mm~61.2mm (12x Optical zoom)
Max Aperture	F1.4~ F2.1
Focus Control	Auto / Manual
Angle of View	51.3° ~ 4.64°
Close Focus Distance	100mm ~ 1000mm
<b>PTZ</b>	
Pan/Tilt Range	Pan: 0° ~ 360°endless;Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~300° /s;Tilt: 0.1° ~200° /s
Preset Speed	Pan:400° /s;Tilt: 300° /s
Preset	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan,Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/Pan/Scan/Tour/Pattern if there is no command in the specified period
Time Task	Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time
IR Distance	100m
Protocol	DH-SD, Pelco-P/D (Auto recognition)
<b>Audio</b>	
Interface	1 channel In
<b>Auxiliary Interface</b>	
RS485	1
Alarm	2/1 channel In/Out
<b>General</b>	
Power Supply	AC24V/3A(±10%)
Power Consumption	12W, 25W(IR on)
Working Environment	-40°C ~ 70°C / Less than 90% RH
Ingress Protection	IP66
Dimensions	Φ186.0(mm) x 310(mm)
Weight	3.5Kg

# DH-SD40/42/42C212I-HC

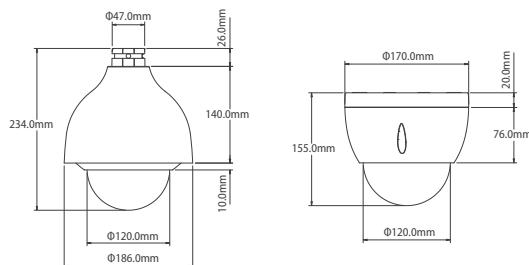
## 2Mp 12x Mini HDCVI PTZ Dome Camera



### Features

- Powerful 12x optical zoom
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- DWDR, Day/Night (ICR), DNR (2D&3D), Auto iris, Auto focus, AWB, AGC, BLC
- Max 300°/s pan speed, 360° continuous pan rotation
- Control over coaxial cable, long distance real-time transmission
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IP66, OSD

### Dimensions (mm)



### Accessories-SD40212I-HC



DH-PFB300S DH-PFA110 Power Supply

### Accessories(Optional)-SD40212I-HC



DH-PFB300C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

### Technical Specifications

Model	DH-SD40212I-HC	DH-SD42212I-HC	DH-SD42C212I-HC
<b>Camera</b>			
Image Sensor	1/3" Exmor CMOS		
Effective Pixels	1944(H)×1092(V), 2 Megapixels		
Horizontal Resolution	≥1000TVL		
Scanning System	Progressive		
Electronic Shutter Speed	1/1s ~ 1/30,000s		
Min. Illumination	Color: 0.05 Lux/F1.6, B/W: 0.005Lux/F1.6		
S/N Ratio	More than 55dB		
Resolution	25/30fps@1080P, 25/30/50/60fps@720P		
Video Output	1-channel BNC HDCVI high definition video output		
<b>Camera Features</b>			
Day/Night	Auto(ICR) / Color / B/W		
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)		
White Balance	Auto, ATW, Indoor, Outdoor, Manual		
Gain Control	Auto / Manual		
Noise Reduction	2D / 3D		
Privacy Masking	Up to 24 areas		
Digital Zoom	16x		
<b>Lens</b>			
Focal Length	5.1 mm~61.2mm (12x Optical zoom)		
Max Aperture	F1.2~ F2.1		
Focus Control	Auto / Manual		
Angle of View	51.3° ~ 4.64°		
Close Focus Distance	100mm~1000mm		
<b>PTZ</b>			
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°		
Manual Control Speed	Pan: 0.1° ~ 300°/s; Tilt: 0.1° ~ 120°/s		
Preset Speed	Pan: 300°/s; Tilt: 200°/s		
Preset	80(DH-SD), 255(Pelco-P/D)		
PTZ Mode	5 Pattern, 8 Tour, 5 Auto Scan, Auto Pan		
Speed Setup	Human-oriented focal length/ speed adaptation		
Power up Action	Auto restore to previous PTZ and lens status after power failure		
Idle Motion	Activate Preset/Pan/Scan/Tour/Pattern if there is no command in the specified period		
Time Task	Auto activation of Preset/Pan/Scan/Tour/Pattern by preset-time		
Protocol	DH-SD, Pelco-P/D (Auto recognition)		
<b>Audio</b>			
Interface	1 channel In		
<b>Auxiliary Interface</b>			
RS485	1		
Alarm	2/1 channel In/Out		
<b>General</b>			
Power Supply	AC24V/1.5A ( $\pm 10\%$ )		
Power Consumption	10W, 19W(Heater on)	10W	
Working Environment	-40°C ~ 60°C / Less than 90% RH	-10°C ~ 60°C / Less than 90% RH	
Ingress Protection	IP66		N/A
Dimensions	Φ186mm×234mm	Φ170mm×155mm	Φ198mm×158mm
Weight	2.3kg	1.8kg	2.0kg

### Accessories(Optional)-SD42212I-HC



DH-PFA102 DH-PFB300S DH-PFB300C DH-PFA112 DH-PFA113 DH-PFA120 DH-PFA150 DH-PFA151

# DH-SD63120I-HC

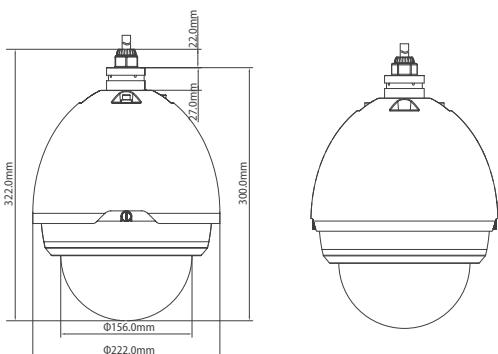
## 1Mp 720P HDCVI PTZ Dome Camera



### Features

- 20x optical zoom
- Max 50/60fps@720P resolution
- DWDR, Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Control over coaxial cable, long distance real-time transmission
- Max 300°/s pan speed, 360° endless pan rotation
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IP66

### Dimensions (mm)



### Accessories



DH-63FB Power Supply

### Accessories(optional)



DH-PFA111 DH-PFB300C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

### Technical Specifications

Model	DH-SD63120I-HC
<b>Camera</b>	
Image Sensor	1/3" Exmor CMOS
Effective Pixels	1280(H)×960(V)
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4
S/N Ratio	More than 50dB
Resolution	25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
<b>Camera Features</b>	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D/3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
<b>Lens</b>	
Focal Length	4.7mm~94mm(20x Optical zoom)
Max Aperture	F1.4 ~ F2.6
Focus Control	Auto / Manual
Angle of View	H: 54.1° ~ 3.2°
Close Focus Distance	100mm~ 1000mm
<b>PTZ</b>	
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~300° /s; Tilt: 0.1° ~150° /s
Preset Speed	Pan: 300° /s; Tilt: 200° /s
Preset	80(DH-SD), 255(Pelco-P/D)
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/ Pan/ Scan/ Tour/ Pattern if there is no command in the specified period
Time Task	Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time
Protocol	DH-SD, Pelco-P/D (Auto recognition)
<b>Audio</b>	
Interface	1 channel In
<b>Auxiliary Interface</b>	
RS485	1
Alarm	2/1 channel In/Out
<b>General</b>	
Power Supply	AC 24V/3A ( $\pm 10\%$ )
Power Consumption	9.5W, 21W (Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10 (optional)
Dimensions	Φ222mm×322mm
Weight	6.8kg

# DH-SD6C120I-HC

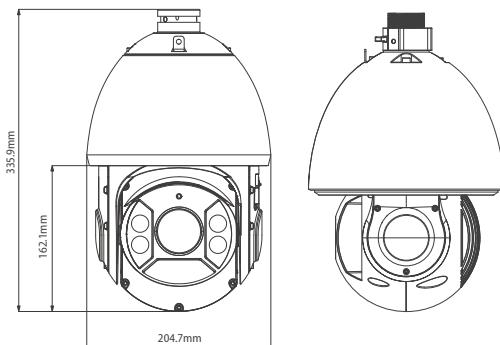
## 1Mp 720P HDCVI IR PTZ Dome Camera



### Features

- 20x optical zoom
- Max 50/60fps@720P resolution
- DWDR, Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Control over coaxial cable, long distance real-time transmission
- Max 240°/s pan speed, 360° endless pan rotation
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IR Distance up to 100m
- IP66

### Dimensions (mm)



### Accessories



DH-64FB Power Supply

### Accessories(optional)



DH-PFA114 DH-PFB300C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

### Technical Specifications

Model	DH-SD6C120I-HC
<b>Camera</b>	
Image Sensor	1/3" Exmor CMOS
Effective Pixels	1280(H)×960(V)
Scanning System	Progressive
Electronic Shutter Speed	1/1~1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4; 0Lux (IR on)
S/N Ratio	More than 50dB
Resolution	25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
<b>Camera Features</b>	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D / 3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
<b>Lens</b>	
Focal Length	4.7mm~94mm (20x Optical zoom)
Max Aperture	F1.4~F2.6
Focus Control	Auto / Manual
Angle of View	H: 54.1°~3.2°
Close Focus Distance	100mm~1000mm
<b>PTZ</b>	
Pan/Tilt Range	Pan: 0°~360° endless; Tilt: -15°~90°, auto flip 180°
Manual Control Speed	Pan: 0.1°~160° /s; Tilt: 0.1°~120° /s
Preset Speed	Pan: 240° /s; Tilt: 200° /s
Preset	80 (DH-SD), 255 (Pelco-P/D)
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup	Human-oriented focal length / speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset / Pan / Scan / Tour / Pattern if there is no command in the specified period
Time Task	Auto activation of Preset / Pan / Scan / Tour / Pattern by preset-time
Protocol	DH-SD, Pelco-P/D (Auto recognition)
IR Distance	100m (2 near IR LED+ 4 far IR LED)
<b>Audio</b>	
Interface	1 channel In
<b>Auxiliary Interface</b>	
RS485	1
Alarm	2/1 channel In/Out
<b>General</b>	
Power Supply	AC 24V/3A ( $\pm 10\%$ )
Power Consumption	10.5W, 26W (IR on, Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	N/A
Dimensions	Φ204.7mm×335.9mm
Weight	7.5kg

# DH-SD59120I-HC

**NEW!**

## 1Mp 720p 20x Ultra-high Speed IR HDCVI PTZ Dome Camera

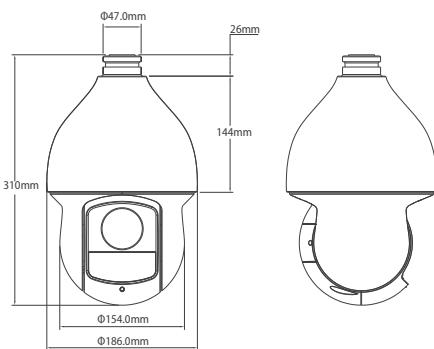
### Technical Specifications



### Features

- 20x optical zoom
- Max 20/30/50/60fps@720P resolution
- DWDR, Day/Night(ICR), Ultra DNR, Auto iris, Auto focus
- Max 400°/s pan speed, 360° endless pan rotation
- Up to 300presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IR Distance up to 100m
- IP66

### Dimensions (mm)



Model	DH-SD59120I-HC
<b>Camera</b>	
Image Sensor	1/3"Exmor CMOS
Effective Pixels	1280(H) x 960(V)
Horizontal Resolution	≥700TVL
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4;0Lux (IR on)
S/N Ratio	More than 50dB
Resolution	25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
<b>Camera Features</b>	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR(Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D/3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
Lens	
Focal Length	4.7mm~94mm (20x Optical zoom)
Max Aperture	F1.4~ F2.6
Focus Control	Auto / Manual
Angle of View	54.1° ~ 3.2°
Close Focus Distance	100mm ~ 1000mm
<b>PTZ</b>	
Pan/Tilt Range	Pan: 0° ~ 360°endless;Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~300° /s;Tilt: 0.1° ~200° /s
Preset Speed	Pan:400° /s;Tilt: 300° /s
Preset	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan,Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/Pan/Scan/Tour/Pattern if there is no command in the specified period
Time Task	Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time
Protocol	100m
IR Distance	DH-SD, Pelco-P/D (Auto recognition)
<b>Audio</b>	
Interface	1 channel In
<b>Auxiliary Interface</b>	
RS485	1
Alarm	2/1 channel In/Out
<b>General</b>	
Power Supply	AC24V/ 3A ( $\pm 10\%$ )
Power Consumption	12W, 25W(IR on)
Working Environment	-40°C ~ 70°C / Less than 90% RH
Ingress Protection	IP66
Dimensions	Φ186.0(mm) x 310(mm)
Weight	3.5Kg

### Accessories-DH-SD59120I-HC



DH-PFB300S DH-PFA110 Power Supply

### Accessories(Optional)



# DH-SD59112I-HC

**NEW!**

## 1Mp 12x Ultra-high Speed IR HDCVI PTZ Dome Camera



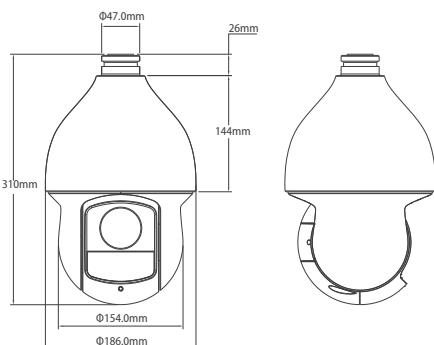
### Technical Specifications

Model	DH-SD59112I-HC
<b>Camera</b>	
Image Sensor	1/3"Exmor CMOS
Effective Pixels	1280(H) x 960(V)
Horizontal Resolution	≥700TVL
Scanning System	Progressive
Electronic Shutter Speed	1/1s ~ 1/30,000s
Min. Illumination	Color: 0.05 Lux/F1.4; B/W: 0.005Lux/F1.4;0Lux (IR on)
S/N Ratio	More than 55dB
Resolution	25/30/50/60fps@720P
Video Output	1-channel BNC HDCVI high definition video output
<b>Camera Features</b>	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	2D / 3D
Privacy Masking	Up to 24 areas
Digital Zoom	16x
<b>Lens</b>	
Focal Length	5.1 mm~61.2mm (12x Optical zoom)
Max Aperture	F1.4~ F2.1
Focus Control	Auto / Manual
Angle of View	51.3° ~ 4.64°
Close Focus Distance	100mm~1000mm
<b>PTZ</b>	
Pan/Tilt Range	Pan: 0° ~ 360°endless;Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~300° /s;Tilt: 0.1° ~200° /s
Preset Speed	Pan:400° /s;Tilt: 300° /s
Preset	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan,Auto Scan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/Pan/Scan/Tour/Pattern if there is no command in the specified period
IR Distance	100m
<b>Audio</b>	
Interface	1 channel In
Auxiliary Interface	
RS485	1
Alarm	2/1channel In/Out
<b>General</b>	
Power Supply	AC24V/3A(±10%)
Power Consumption	12W, 25W(IR on)
Working Environment	-40°C ~ 70°C / Less than 90% RH
Ingress Protection	IP66
Dimensions	Φ186mm×310mm
Weight	3.5Kg

### Features

- Powerful 12x optical zoom
- Max 25/30/50/60fps@720P resolution
- DWDR, Day/Night (ICR), Ultra DNR, Auto iris, Auto focus, AWB, AGC, BLC
- Max 400°/s pan speed, 360° continuous pan rotation
- Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IR Distance up to 100m
- IP66

### Dimensions (mm)



### Accessories-DH-SD59112I-HC



DH-PFB300S DH-PFA110 Power Supply

### Accessories(Optional)



DH-PFB300C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

# DH-SD40/42/42C112I-HC

## 1Mp 720P Mini HDCVI PTZ Dome Camera



SD40112I-HC



SD42112I-HC



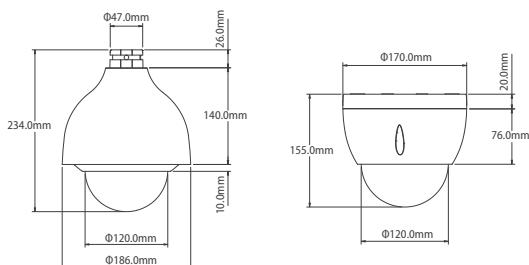
SD42C112I-HC



### Features

- Powerful 12x optical zoom
- 25/30/50/60fps@720P
- DWDR, Day/Night (ICR), DNR (2D&3D), Auto iris, Auto focus, AWB, AGC, BLC
- Max 300°/s pan speed, 360° continuous pan rotation
- Control over coaxial cable, long distance real-time transmission
- Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 2/1 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- IP66,OSD

### Dimensions (mm)



### Accessories-SD40112I-HC



DH-PFB300S DH-PFA110 Power Supply

### Accessories(Optional)-SD40112I-HC



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### Technical Specifications

Model	DH-SD40112I-HC	DH-SD42112I-HC	DH-SD42C112I-HC
<b>Camera</b>			
Image Sensor	1/3" Exmor CMOS		
Effective Pixels	1280(H)×960(V)		
Horizontal Resolution	≥700TVL		
Scanning System	Progressive		
Electronic Shutter Speed	1/1s ~ 1/30,000s		
Min. Illumination	Color: 0.05 Lux / F1.6, B/W: 0.005Lux / F1.6		
S/N Ratio	More than 55dB		
Resolution	25/30/50/60fps@720P		
Video Output	1-channel BNC HDCVI high definition video output		
<b>Camera Features</b>			
Day/Night	Auto(ICR) / Color / B/W		
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)		
White Balance	Auto, ATW, Indoor, Outdoor, Manual		
Gain Control	Auto / Manual		
Noise Reduction	2D / 3D		
Privacy Masking	Up to 24 areas		
Digital Zoom	16x		
<b>Lens</b>			
Focal Length	5.1 mm~61.2mm (12x Optical zoom)		
Max Aperture	F1.2~ F2.1		
Focus Control	Auto / Manual		
Angle of View	51.3°~4.64°		
Close Focus Distance	100mm~1000mm		
<b>PTZ</b>			
Pan/Tilt Range	Pan: 0°~360° endless; Tilt: -2°~ 90°, auto flip 180°		
Manual Control Speed	Pan: 0.1°~300°/s; Tilt: 0.1°~120°/s		
Preset Speed	Pan: 300°/s; Tilt: 200°/s		
Preset	80(DH-SD), 255(Pelco-P/D)		
PTZ Mode	5 Pattern, 8 Tour, 5 Auto Scan, Auto Pan		
Speed Setup	Human-oriented focal length / speed adaptation		
Power up Action	Auto restore to previous PTZ and lens status after power failure		
Idle Motion	Activate Preset / Pan / Scan / Tour / Pattern if there is no command in the specified period		
Time Task	Auto activation of Preset / Pan / Scan / Tour / Pattern by preset-time		
Protocol	DH-SD, Pelco-P/D (Auto recognition)		
<b>Audio</b>			
Interface	1 channel In		
<b>Auxiliary Interface</b>			
RS485	1		
Alarm	2/1 channel In/Out		
<b>General</b>			
Power Supply	AC24V / 1.5A ( $\pm 10\%$ )		
Power Consumption	10W, 19W (Heater on)	10W	
Working Environment	-40°C ~ 60°C / Less than 90% RH	-10°C ~ 60°C / Less than 90% RH	
Ingress Protection	IP66	N/A	
Dimensions	Φ186mm×234mm	Φ170mm×155mm	Φ198mm×158mm
Weight	2.3Kg	1.8Kg	2.0Kg

### Accessories(Optional)-SD42112I-HC





All things are difficult before  
they are easy.



High Definition Composite Video Interface (HDCVI) is an eye-catching technology breakthrough in the industry, providing a new HD solution on the market besides IP and HD-SDI. HDCVI is an optimal solution for megapixel high definition application, featuring non-latent long-distance transmission at lower cost.

#### Highlights

- Fast and Fabulous to HD
- 3 Signals (Video/Audio/Control) in 1 Coaxial Cable
- Long-distant Transmission
- Zero Video Lose/Real-time Preview

# DAHUA TECHNOLOGY MAKE YOUR LIFE SAFER

HDCVI Academy



\*Design and specifications are subject to change without notice.

HDCVI - 02, Jun 2014



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TECHNOLOGY

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