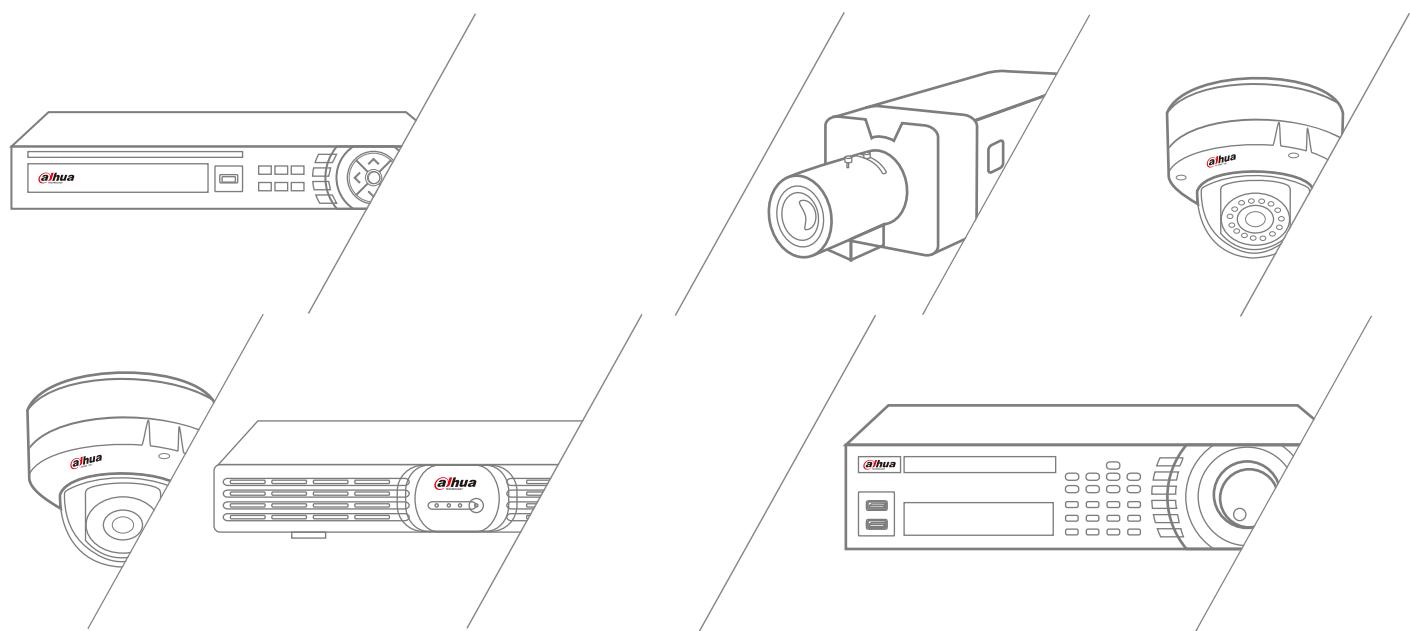




HDCVI

HDCVI PRODUCT CATALOG



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. Asides 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 264 patents, including 13 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 awarding "Top 10 Security Brand in China" for 9 years and has been ranking in "Security 50" by a&s magazine for 5 years. Moreover, Dahua enjoyed 6th largest market share according to 2012 IMS global report.

Product Line-up

HDCVI Technical

HDCVI Technical	03
HDCVI Technical	04

HDCVI Function

HDCVI Function	05
HDCVI Function	06

HDCVI DVR

HDCVI DVR	
DH-HCI-DVR7804/08/16S	08
DH-HCI-DVR7404/08/16L	09
DH-HCI-DVR7204/08/16A	10
DH-HCI-DVR5804/08/16S	11
DH-HCI-DVR5404/08/16L	12
DH-HCI-DVR5204/08/16A	13
DH-HCI-DVR5104/08H	14

HDCVI Camera

1080P

DH-HAC-HFW2200E	16
DH-HAC-HFW2200D	17
DH-HAC-HFW2200B(-B)	18
DH-HAC-HFW2200S	19
DH-HAC-HDW2200C	20
DH-HAC-HDW2200S	21

720P

DH-HAC-HFW3103E	22
DH-HAC-HDB3103E	23
DH-HAC-HDBW3103E	24
DH-HAC-HDW3103C	25
DH-HAC-HFW2100E	26
DH-HAC-HFW2100S	27
DH-HAC-HFW2100D	28
DH-HAC-HFW2100B(-B)	29
DH-HAC-HDW2100C	30
DH-HAC-HDW2100S	31

DH-HAC-HFW1100S	32
DH-HAC-HDW1100	33
DH-HAC-HDW1100D	34

HDCVI PTZ Camera

1080P	
DH-SD63220I-HC	36
DH-SD6C220I-HC	37
DH-SD40/42/42C212I-HC	38

720P

DH-SD63120I-HC	39
DH-SD6C120I-HC	40
DH-SD40/42/42C112I-HC	41



HDCVI Technology

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(1920×1080). 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 othr 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.

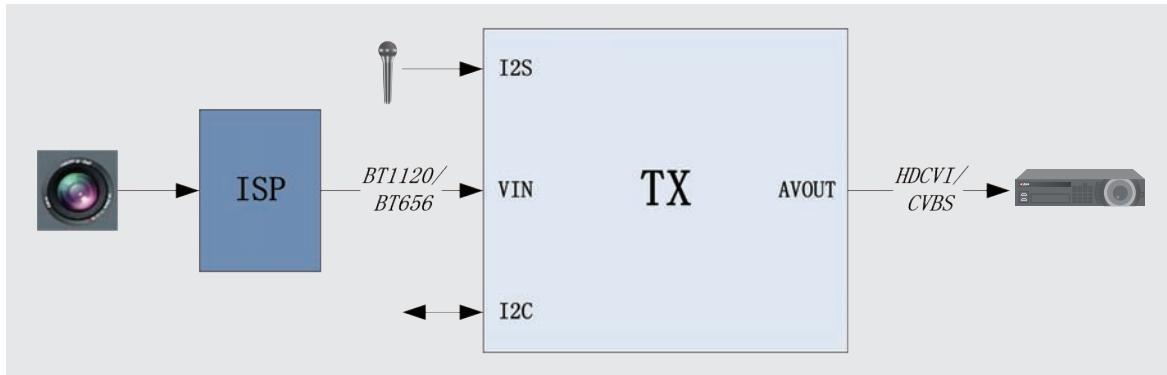


Figure 1 TX Flow Chart

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.

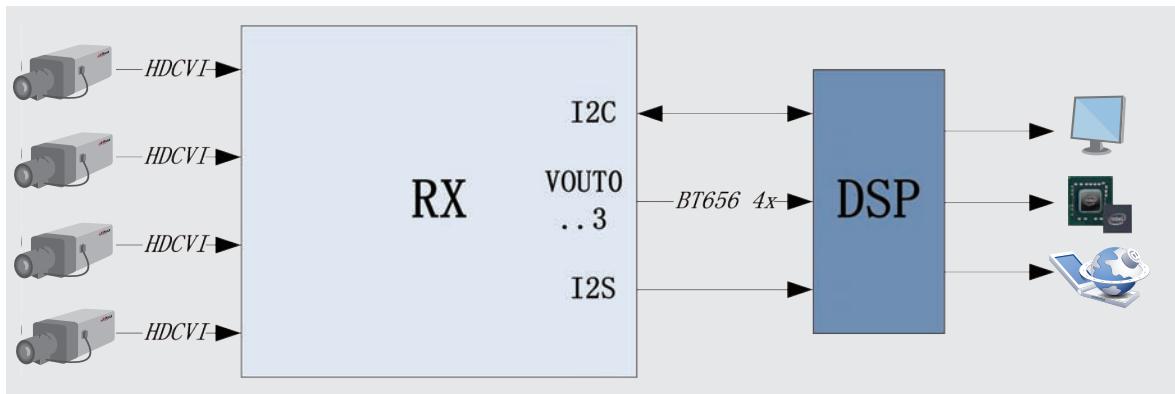


Figure 2 RX Flow Chart

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.

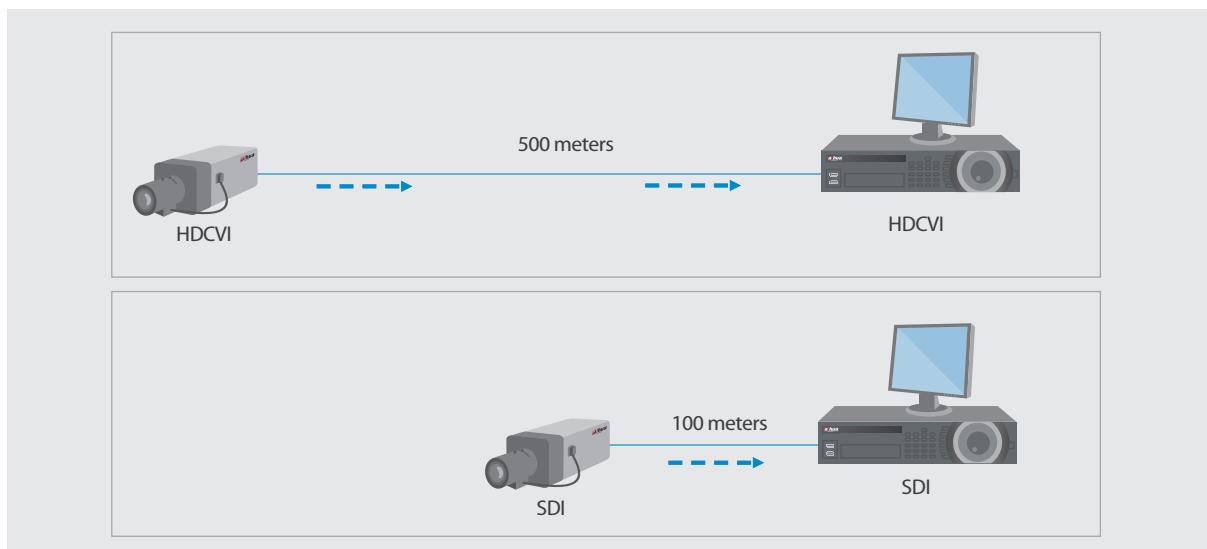


Figure 3 Contrast on Transmission Distance

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.

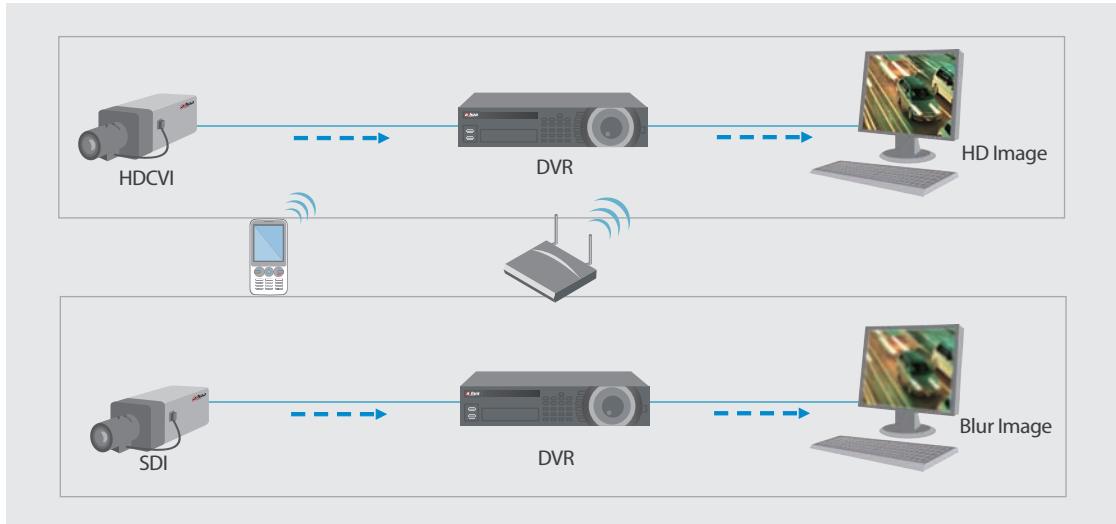


Figure 4 Anti-Interference Capability

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.

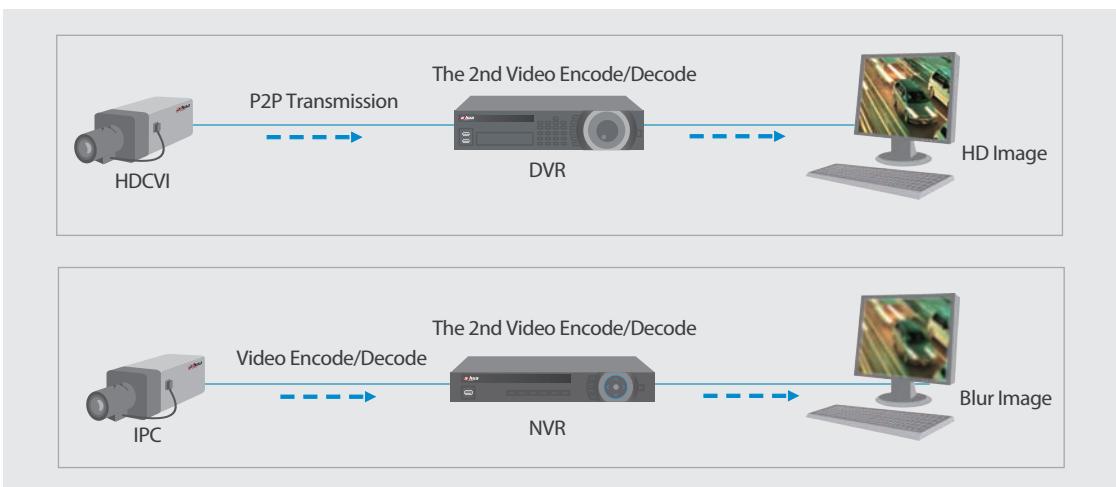


Figure 5

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 DVR

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DH-HCVR7804/7808/7816S

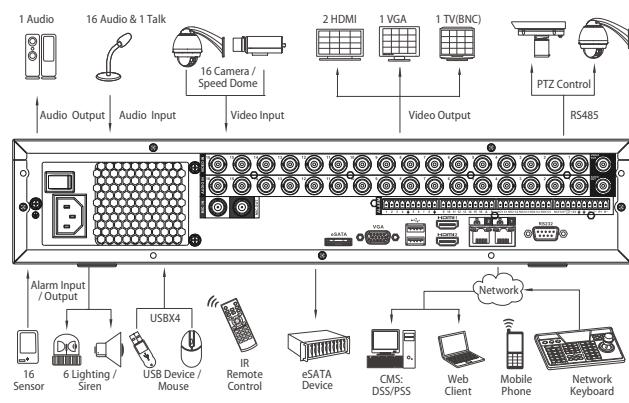
4/8/16 All Channel 1080P 2U Standalone DVR



Features

- Up to 4/8/16 channel video 1080p realtime live view
- H.264 dual-stream video compression
- HCVR7804/7808/7816S: All channel 1080p
- HDMI / VGA / TV simultaneous video output
- 4/8/16 channel synchronous 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 HCVR7816S as an example

Technical Specifications

Model	DH-HCVR7804S	DH-HCVR7808S	DH-HCVR7816S
System			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
Video			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
Audio			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Output	1 channel, BNC		
Two-way Talk	1 channel input, 1 channel output, BNC		
Display			
Interface	2 HDMI, 1 VGA, 1BNC		
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		
Recording			
Video/Audio Compression	H.264 / G.711		
Resolution	1080P(1920×1080/1920×900)/720P(1280×720/1280×600)/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)		
Bit Rate	48~8192Kb/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		
Video Detection & Alarm			
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		
Playback & Backup			
Sync Playback	1/4	1/4/8	1/4/8/16
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		
Network			
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		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
Storage			
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		
Auxiliary Interface			
USB Interface	4 ports (2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port, For PTZ control, 1 port for keyboard		
General			
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-HCVR7404/7408/7416L

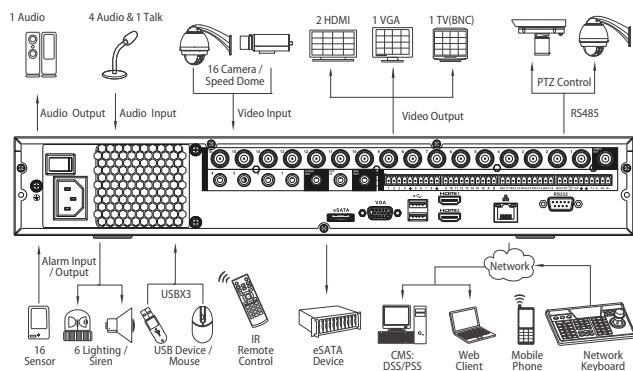
4/8/16 All Channel 1080P 1.5U Standalone DVR



Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR7404/7408/7416L: All channel 1080P
- HDMI / VGA / TV simultaneous video output
- All channel synchronous playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 4 SATA HDD 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

Technical Specifications

Model	DH-HCVR7404L	DH-HCVR7408L	DH-HCVR7416L
System			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
Video			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
Audio			
Input	4 channel, BNC		
Output	1 channel, BNC		
Two-way Talk	1 channel input, 1 channel output, BNC		
Display			
Interface	2 HDMI, 1 VGA, 1BNC		
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		
Recording			
Video/Audio Compression	H.264 / G.711		
Resolution	1080P(1920×1080/1920×900)/720P(1280×720/1280×600)/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/D1/2CIF/CIF(1~25/30fps) Extra stream CIF/QCIF(1~25/30fps)		
Bit Rate	48~8192Kb/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 & Alarm			
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		
Playback & Backup			
Sync Playback	1/4	1/4/8	1/4/8/16
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		
Network			
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		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
Storage			
Internal HDD	4 SATA port, up to 16TB		
External HDD	1 eSATA port (Max 4 SATA HDDs), up to 16TB		
Auxiliary Interface			
USB Interface	3 ports(2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port, For PTZ control		
General			
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×460mm×68mm		
Weight	6.0kg(without HDD)		

DH-HCVR7204/7208A

4/8 All Channel 1080P 1U Standalone DVR

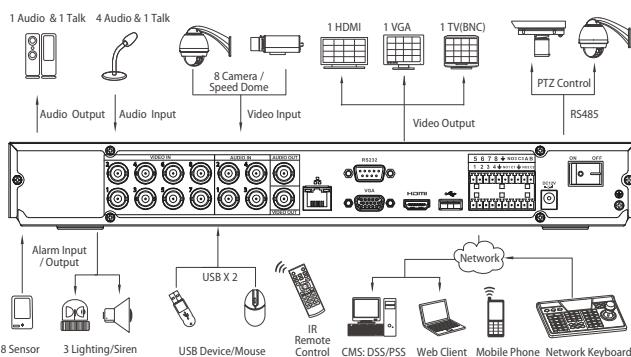
Technical Specifications



Features

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

System Connection



* Takes HCVR7208A as an example

Model	DH-HCVR7204A	DH-HCVR7208A
System		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
Video		
Input	4 channel, BNC	8 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
Audio		
Input	4 channel, BNC	
Output	1 channel, BNC	
Two-way Talk	Reuse audio input/output channel 1	
Display		
Interface	1 HDMI, 1 VGA, 1BNC	
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(1920×1080/1920×900)/(720P(1280×720/1280×600)/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/D1/2CIF/CIF(1~25/30fps) CIF/QCIF(1~25/30fps)
Bit Rate	48~8192Kb/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 & Alarm		
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	
Playback & Backup		
Sync Playback	1/4	1/4/8
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	
Network		
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	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android, Windows Phone	
Storage		
Internal HDD	2 SATA port, up to 8TB	
Auxiliary Interface		
USB Interface	2 ports (1 Rear), USB2.0	
RS232	1 port, For PC communication & Keyboard	
RS485	1 port, For PTZ control	
General		
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×45mm	
Weight	2.35kg (without HDD)	

DH-HCVR5804/5808/5816S

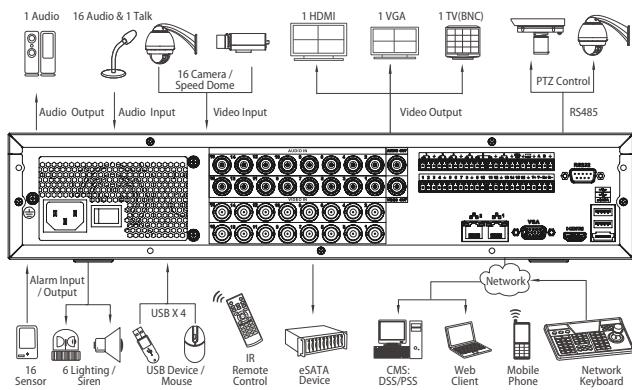
4/8/16 All Channel 720P 2U Standalone DVR



Features

- Up to 4/8/16 channel video 1080p realtime live view
- H.264 dual-stream video compression
- HCVR5804/5808/5816S: All channel 720p
- HDMI / VGA / TV simultaneous video output
- 4/8/16 channel synchronous 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
System			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
Video			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
Audio			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Output	1 channel, BNC		
Two-way Talk	Reuse audio input/output channel 1		
Display			
Interface	1 HDMI, 1 VGA ,1 BNC		
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		
Recording			
Video/Audio Compression	H.264 / G.711		
Resolution	720P(1280×720/1280×600)/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	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		
Video Detection & Alarm			
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		
Playback & Backup			
Sync Playback	1/2/4	1/2/4/8	1/2/4/8/16
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 / Network		
Network			
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		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
Storage			
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		
Auxiliary Interface			
USB Interface	4 ports (2 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port, For PTZ control, 1 port for Keyboard		
General			
Power Supply	AC 100~240 V, 50/60 Hz		
Power Consumption	25W	30W	40W
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

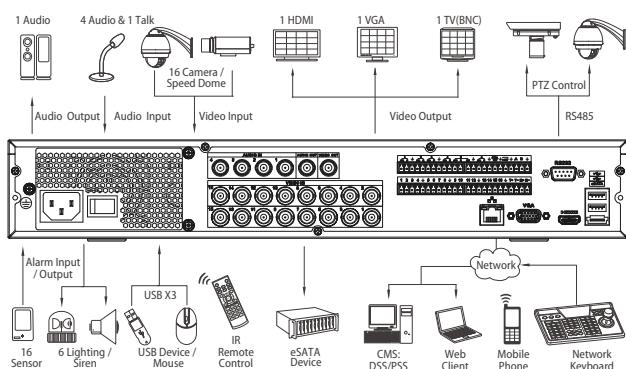
4/8/16 All Channel 720P 1.5U Standalone DVR



Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5404/5408/5416L: All channel 720P
- HDMI / VGA/BNC simultaneous video output
- All channel synchronous playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 4 SATA HDD 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				
System							
Main Processor	Embedded processor						
Operating System	Embedded LINUX						
Video							
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC				
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)						
Audio							
Input	4 channel, BNC						
Output	1 channel, BNC						
Two-way Talk	Reuse audio input/output channel 1						
Display							
Interface	1 HDMI, 1 VGA, 1BNC						
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						
Recording							
Video/Audio Compression	H.264 / G.711						
Resolution	720P(1280×720/1280×600)/960H(960×576/960×480)/D1/4CIF(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>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	720P/960H/D1/HD1/2CIF/CIF(1~25/30fps)	Extra stream	CIF/QCIF(1~25/30fps)		
Main stream	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						
Video Detection & Alarm							
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						
Playback & Backup							
Sync Playback	1/4	1/4/8	1/4/8/16				
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						
Network							
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						
Max. User Access	128 users						
Smart Phone	iPhone, iPad, Android, Windows Phone						
Storage							
Internal HDD	4 SATA port, up to 16TB						
External HDD	1 eSATA port (Max 4 SATA HDDs), up to 16TB						
Auxiliary Interface							
USB Interface	3 ports (2 Rear), USB2.0						
RS232	1 port, For PC communication & Keyboard						
RS485	1 port, For PTZ control						
General							
Power Supply	AC 100~240 V, 50/60 Hz						
Power Consumption	25W	30W	40W				
Working Environment	-10 ~ +55°C / 10 ~ 90%RH / 86 ~ 106kpa						
Dimension(W×D×H)	1.5U, 440mm×460mm×68mm						
Weight	6.0kg (without HDD)						

DH-HCVR5204/5208/5216A

4/8/16 All Channel 720P 1U Standalone DVR

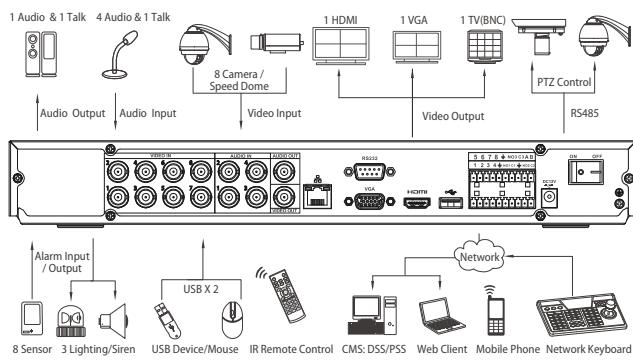
Technical Specifications



Features

- Up to 4/8/16 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5204/5208/5216A: All channel 720P
- HDMI / VGA simultaneous video output
- 4/8/16 channel synchronous playback, GRID interface & smart search
- 3D intelligent positioning with Dahua PTZ dome camera
- Support 2 SATA HDD 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
System			
Main Processor	Embedded processor		
Operating System	Embedded LINUX		
Video			
Input	4 channel, BNC	8 channel, BNC	16 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
Audio			
Input	4 channel, BNC		
Output	1 channel, BNC		
Two-way Talk	Reuse audio input/output channel 1		
Display			
Interface	1 HDMI, 1 VGA, 1 BNC		
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		
Recording			
Video/Audio Compression	H.264 / G.711		
Resolution	720P(1280×720/1280×600)/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	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		
Video Detection & Alarm			
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		
Playback & Backup			
Sync Playback	1/4	1/4/8	1/4/8/16
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		
Network			
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		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android, Windows Phone		
Storage			
Internal HDD	2 SATA port, up to 8TB		
Auxiliary Interface			
USB Interface	2 ports(1 Rear), USB2.0		
RS232	1 port, For PC communication & Keyboard		
RS485	1 port, For PTZ control		
General			
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×45mm		
Weight	2.35kg (without HDD)		

DH-HCVR5104/5108H

4/8 All Channel 720P Mini 1U Standalone DVR

Technical Specifications

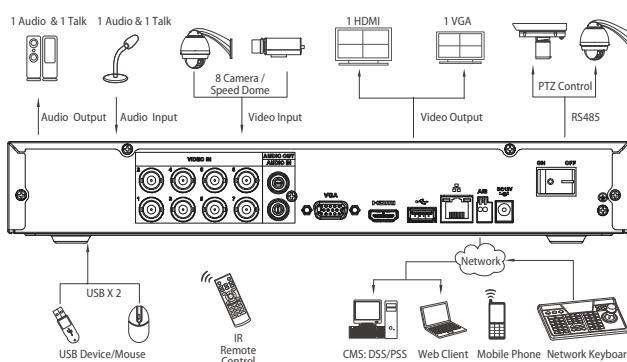
Model	DH-HCVR5104H	DH-HCVR5108H
System		
Main Processor	Embedded processor	
Operating System	Embedded LINUX	
Video		
Input	4 channel, BNC	8 channel, BNC
Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)	
Audio		
Input	1 channel, RCA	
Output	1 channel, RCA	
Two-way Talk	Reuse audio input/output channel 1	
Display		
Interface	1 HDMI, 1 VGA,	
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600	
Display Split	1/4	1/4/8
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	720P(1280×720/1280×600)/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	48~6144Kb/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 & Alarm		
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	1/4/8
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	
Network		
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	
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(1 Rear), USB2.0	
RS485	1 port, For PTZ control	
General		
Power Supply	DC12V/2A	
Power Consumption	10W(without HDD)	
Working Environment	-10 ~ +55°C / 10~90%RH / 86~106kpa	
Dimension(W×D×H)	Mini 1U, 325mm×245mm×45mm	
Weight	1.5kg (without HDD)	



Features

- Up to 4/8 cameras with 1080p realtime preview
- H.264 dual-stream video compression
- HCVR5104/5108H: All channel 720P
- HDMI / VGA simultaneous video output
- All channel synchronous 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 HCVR5108H as an example



HDCVI Camera

DH-HAC-HFW2200E

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

Technical Specifications

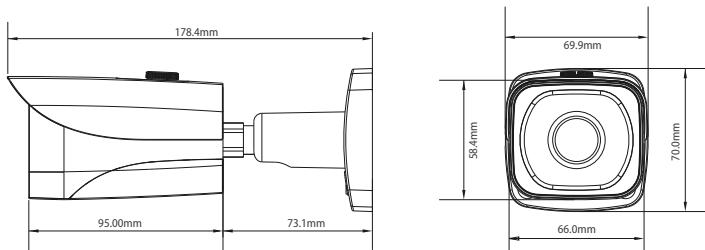


Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- Full HD and standard definition switch
- 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
Camera		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	1920×1080@25fps; 1920×1080@30fps; 1280×720@25 fps; 1280×720@30 fps; 1280×720@50 fps; 1280×720@60 fps	
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)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	6mm fixed lens (2.8mm, 3.6mm, 8mm optional)	
Mount Type	M12	
General		
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

2Megapixel 1080P Water-proof IR HDCVI Camera

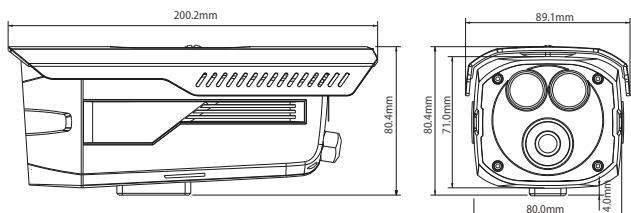
Technical Specifications



Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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

Dimensions(mm)



Accessories (optional)



PFB120W

PFB121W

Model	DH-HAC-HFW2200DP	DH-HAC-HFW2200DN
Camera		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3(s)~1/100,000s	
Video Frame Rate	1920×1080@25fps; 1920×1080@30fps; 1280×720@25fps; 1280×720@30fps; 1280×720@50 fps; 1280×720@60 fps	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	50m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	8mm fixed lens (3.6mm, 6mm, 12mm, 16mm optional)	
Mount Type	M12	
General		
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)	Φ200.2mm×89.1mm×80.4mm	
Weight	0.45kg	

DH-HAC-HFW2200B(-B)

2Megapixel 1080P Water-proof IR HDCVI Camera

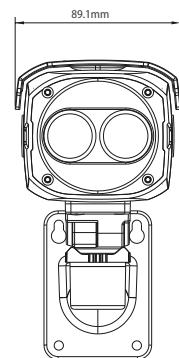
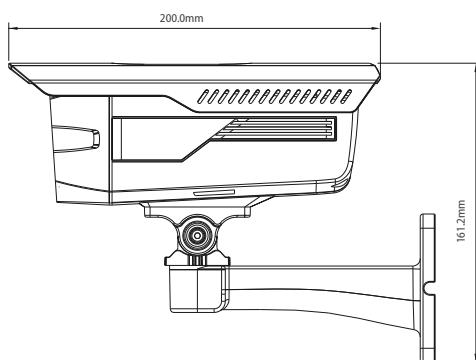
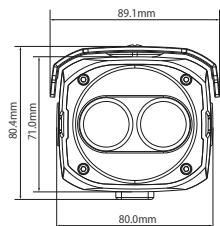
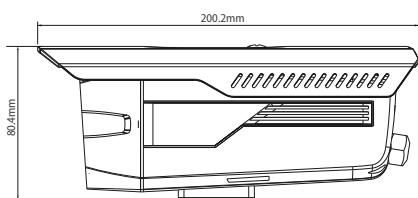
Technical Specifications



Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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

Model	DH-HAC-HFW2200BP	DH-HAC-HFW2200BN	DH-HAC-HFW2200BP-B	DH-HAC-HFW2200BN-B
Camera				
Image Sensor	1/3" 2Megapixel CMOS			
Effective Pixels	1920(H)×1080(V)			
Electronic Shutter	1/3s~1/100,000s			
Video Frame Rate	1920×1080@25fps; 1920×1080@30fps; 1280×720@25fps; 1280×720@30fps; 1280×720@50fps; 1280×720@60fps			
Synchronization	Internal			
Min. Illumination	0.05Lux@F1.2(0Lux IR LED on)			
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)			
Camera Features				
Max. IR LEDs Length	30m, Smart IR			
Day/Night	Auto(ICR)/B&W/Color			
Noise Reduction	3D/2D			
OSD Menu	Support			
Lens				
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)			
Mount Type	M12			
General				
Power Supply	DC12V±10%			
Power Consumption	Max 6.5W			
Working Environment	-30°C~+60°C Humidity is less than 95%(no condensation)			
Transmission Distance	Over 300m via 75-3 coaxial cable			
Ingress Protection	IP66			
Dimensions(W×D×H)	200.2mm×89.1mm×80.4mm	200mm×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

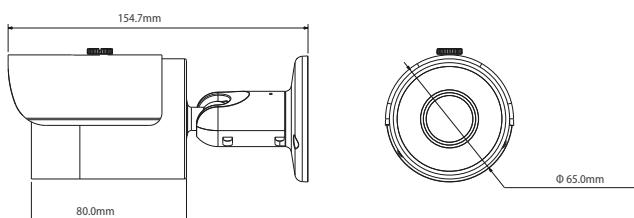


Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch.
- 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
Camera		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	1920×1080@25fps; 1920×1080@30fps; 1280×720@25fps; 1280×720@30 fps; 1280×720@50fps; 1280×720@60fps	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR)/B&W/Color	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
General		
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-HDW2200C

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



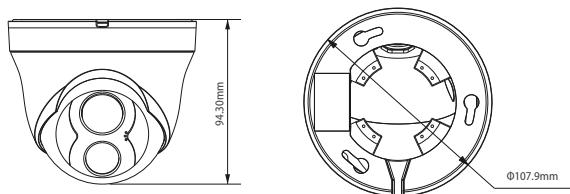
Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch.
- 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

Technical Specifications

Model	DH-HAC-HDW2200CP	DH-HAC-HDW2200CN
Camera		
Image Sensor	1/3" 2Megapixel CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	1920×1080@25fps; 1920×1080@30fps; 1280×720@25fps; 1280×720@30 fps; 1280×720@50fps; 1280×720@60fps	
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)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	3D/2D	
OSD Menu	Support	
Lens		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
General		
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	Φ107.9mm×94.3mm	
Weight	0.35kg	

Dimensions(mm)



Accessories (optional)



PFA130

PFB200W

DH-HAC-HDW2200S

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



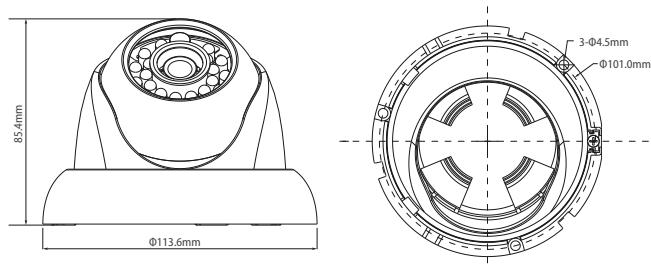
Features

- 1/3" 2Megapixel CMOS
- 25/30fps@1080P, 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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

Technical Specifications

Model	DH-HAC-HDW2100SP	DH-HAC-HDW2100SN
Camera		
Image Sensor	1/3" 2Mega CMOS	
Effective Pixels	1920(H)×1080(V)	
Electronic Shutter	1/3s~1/100,000s	
Video Frame Rate	1920×1080@25fps; 1920×1080@30fps; 1280×720@25fps; 1280×720@30 fps; 1280×720@50fps; 1280×720@60fps	
Synchronization	Internal	
Min. Illumination	0.05Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR)/B&W/Color	
Noise Reduction	3D/2D	
OSD Menu	Support	
Lens		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
General		
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	

Dimensions(mm)



Accessories (optional)



PFA130



PFB200W

DH-HAC-HFW3103E

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

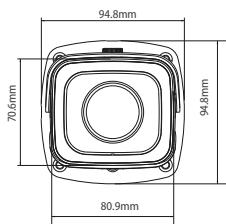
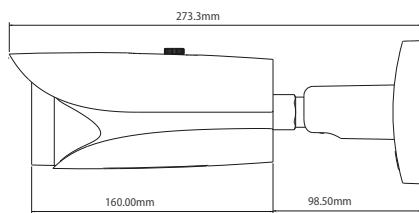
Technical Specifications



Features

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

Dimensions (mm)



Model	DH-HAC-HFW3103EP	DH-HAC-HFW3103EN
Camera		
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	1280×720@25 fps; 1280×720@30 fps; 1280×720@50 fps; 1280×720@60 fps	
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)	
Camera Features		
Max. IR LEDs Length	50m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	2.8~8mm sync focus lens, motorized zoom	
Mount Type	Φ14	
General		
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)	273.3mm×94.8mm×94.8mm	
Weight	0.5kg	

DH-HAC-HDB3103E

1.3Megapixel 720P Vandal-proof HDCVI Dome Camera



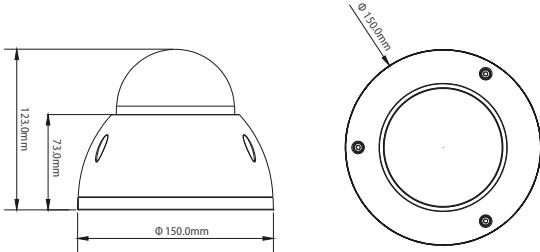
Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.8~8mm sync focus lens, motorized zoom
- IP66, IK10, DC12V

Technical Specifications

Model	DH-HAC-HDB3103EP	DH-HAC-HDB3103EN
Camera		
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	1280×720@25 fps; 1280×720@30 fps; 1280×720@50 fps; 1280×720@60 fps	
Synchronization	Internal	
Mini. 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)	
Camera Features		
Max. IR LEDs Length	N/A	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	2.8~8mm sync focus lens, motorized zoom	
Mount Type	Φ14	
General		
Power Supply	DC12V±10%	
Power Consumption	Max 8.8W	
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)	150mm×123mm	
Weight	0.98kg	

Dimensions (mm)



DH-HAC-HDBW3103E

1.3Megapixel 720P Vandal-proof HDCVI IR Dome Camera



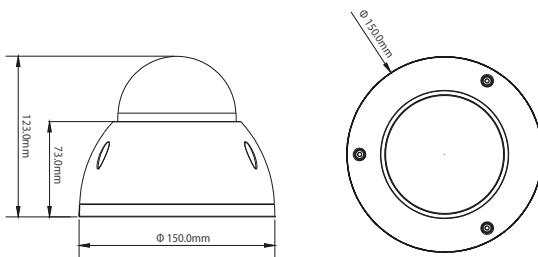
Technical Specifications

Model	DH-HAC-HDBW3103EP	DH-HAC-HDBW3103EN
Camera		
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	1280×720@25 fps; 1280×720@30 fps; 1280×720@50 fps; 1280×720@60 fps	
Synchronization	Internal	
Mini. Illumination	0.01Lux@(F1.2, AGC ON), 0 Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	2.8~8mm sync focus lens, motorized zoom	
Mount Type	Φ14	
General		
Power Supply	DC12V±10%	
Power Consumption	Max 8.8W	
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)	150mm×123mm	
Weight	1.0kg	

Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- OSD Menu, control over coaxial cable
- Day/Night(ICR), AWB, AGC, BLC, 3D-DNR
- 2.8~8mm sync focus lens, motorized zoom
- Max. IR LEDs length 20m, Smart IR
- IP66, IK10, DC12V

Dimensions (mm)



DH-HAC-HDW3103C

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



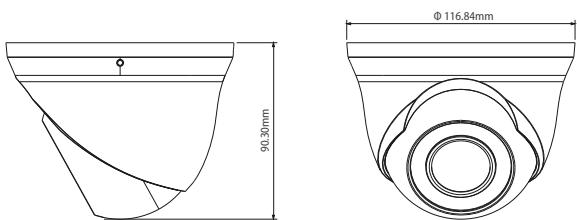
Features

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

Technical Specifications

Model	DH-HAC-HDW3103CP	DH-HAC-HDW3103CN
Camera		
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	1280×720@25 fps; 1280×720@30 fps; 1280×720@50 fps; 1280×720@60 fps	
Synchronization	Internal	
Mini. Illumination	Color: 0.01Lux@F1.2(AGC ON), 0Lux@F1.2 (IR on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	30m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	2.8~8mm sync focus lens, motorized zoom	
Mount Type	Φ14	
General		
Power Supply	DC12V±10%	
Power Consumption	Max 8.8W	
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)	116.84mm×90.3mm	
Weight	0.7kg	

Dimensions (mm)



Accessories (optional)



PFA130

PFB200W

DH-HAC-HFW2100E

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

Technical Specifications

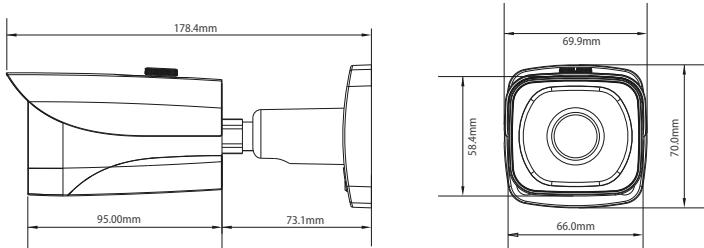


Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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
Camera		
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	1280×720@25 fps; 1280×720@30 fps; 1280×720@50 fps; 1280×720@60 fps	
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)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	6mm fixed lens (2.8mm, 3.6mm, 8mm optional)	
Mount Type	M12	
General		
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

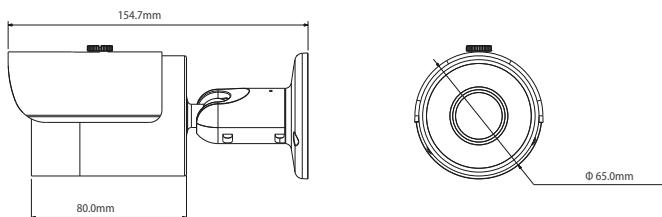
Technical Specifications



Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch.
- 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

Model	DH-CA-HFW2100SP	DH-CA-HFW2100SN
Camera		
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	1280×720@25fps; 1280×720@30fps; 1280×720@50fps; 1280×720@60fps	
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR)/B&W/Color	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
General		
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	

DH-HAC-HFW2100D

1.3Megapixel 720P Water-proof IR HDCVI Camera

Technical Specifications

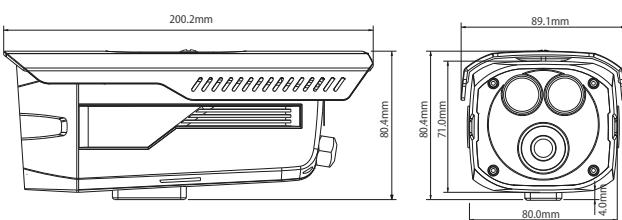


Model	DH-HAC-HFW2100DP	DH-HAC-HFW2100DN
Camera		
Image Sensor	1/3" 1.3Megapixel CMOS	
Effective Pixels	1280(H)×960(V)	
Electronic Shutter	4/25s~1/45,000s	4/30~1/54,000s
Video Frame Rate	1280×720@25fps; 1280×720@30fps; 1280×720@50fps; 1280×720@60fps	
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	50m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D/3D	
OSD Menu	Support	
Lens		
Focal length	8mm fixed lens (3.6mm, 6mm, 12mm, 16mm optional)	
Mount Type	M12	
General		
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)	Φ200.2mm×89.1mm×80.4mm	
Weight	0.45kg	

Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch.
- 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

Dimensions(mm)



Accessories (optional)



PFB120W

PFB121W

DH-HAC-HFW2100B(-B)

1.3Megapixel 720P Water-proof IR HDCVI Camera

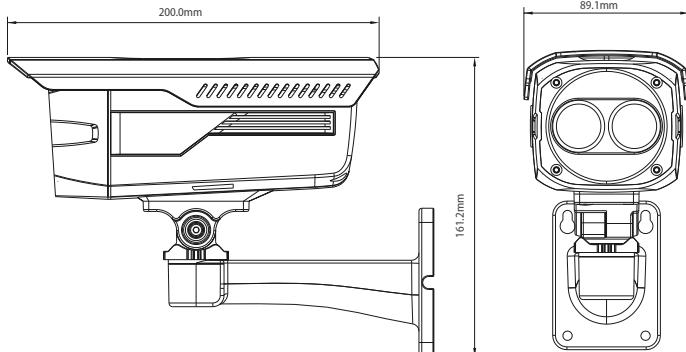
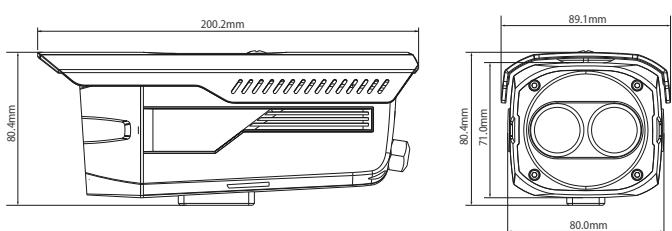
Technical Specifications



Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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

Model	DH-HAC-HFW2100BP	DH-HAC-HFW2100BN	DH-HAC-HFW2100BP-B	DH-HAC-HFW2100BN-B
Camera				
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	1280×720@25fps; 1280×720@30fps; 1280×720@50fps; 1280×720@60fps			
Synchronization	Internal			
Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)			
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)			
Camera Features				
Max. IR LEDs Length	30m, Smart IR			
Day/Night	Auto(ICR)/B&W/Color			
Noise Reduction	3D/2D			
OSD Menu	Support			
Lens				
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)			
Mount Type	M12			
General				
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	200mm×89.1mm×161.2mm		
Weight	0.45kg	0.58kg		
Others	N/A	Default: bracket included		

DH-HAC-HDW2100C

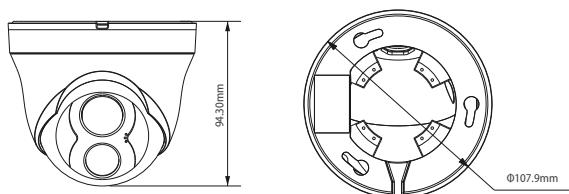
1.3Megapixel 720P Water-proof IR HDCVI Mini Dome Camera



Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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)



Accessories (optional)



PFA130

PFB200W

Technical Specifications

Model	DH-HAC-HDW2100CP	DH-HAC-HDW2100CN
Camera		
Image Sensor	1/3" 1.3Megapixel CMOS	
Effective Pixels	1280(H) x720(V)	
Electronic Shutter	4/25s~1/45,000s	4/30s~1/54,000s
Video Frame Rate	1280×720@25fps; 1280×720@30 fps; 1280×720@50fps; 1280×720@60fps	
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)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	3D/2D	
OSD Menu	Support	
Lens		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
General		
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	Φ107.9mm×94.3mm	
Weight	0.35kg	

DH-HAC-HDW2100S

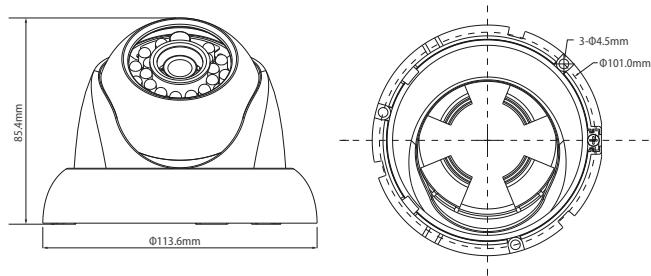
1.3Megapixel 720P Water-proof IR HDCVI Mini Dome Camera



Features

- 1/3" 1.3Megapixel CMOS
- 25/30/50/60fps@720P
- High speed, long distance real-time transmission
- HD and standard definition switch
- 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

Technical Specifications

Model	DH-HAC-HDW2100SP	DH-HAC-HDW2100SN
Camera		
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	1280×720@25fps; 1280×720@30 fps; 1280×720@50fps; 1280×720@60fps	
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR)/B&W/Color	
Noise Reduction	3D/2D	
OSD Menu	Support	
Lens		
Focal Length	3.6mm (2.8mm, 6mm 8mm optional)	
Mount Type	M12	
General		
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	

DH-HAC-HFW1100S

1Megapixel 720P Cost-effective Water-proof Mini IR HDCVI Camera

Technical Specifications

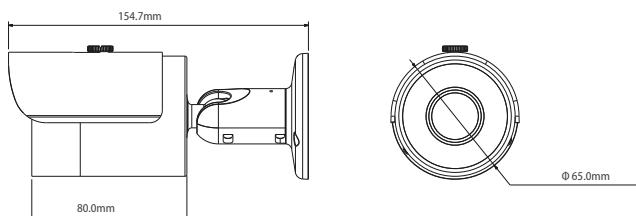


Features

- 1/2.9" 1Megapixel CMOS
- 25/30fps@720P
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC
- 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
Camera		
Image Sensor	1/2.9" 1Megapixel CMOS	
Effective Pixels	1280(H)×720(V)	
Electronic Shutter	1/50s~1/100,000s	1/60~1/100,000s
Video Frame Rate	1280×720@25fps; 1280×720@30fps	
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(0Lux IR LED on)	
Video Output	1-channel BNC HDCVI high definition video output	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR)/B&W/Color	
Noise Reduction	2D	
Lens		
Focal length	6mm (2.8 mm, 3.6mm, 8mm optional)	
Mount Type	M12	
General		
Power Supply	DC12V±10%	
Power Consumption	<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	

Dimensions (mm)



Accessories (optional)



PFA130

DH-HAC-HDW1100

1Megapixel 720P Cost-effective Water-proof IR HDCVI Mini Dome Camera



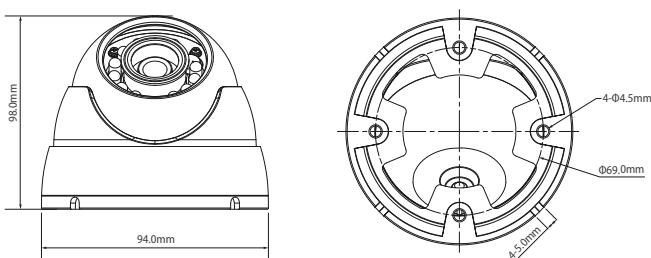
Technical Specifications

Model	DH-HAC-HDW1100P	DH-HAC-HDW1100N
Camera		
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	1280×720@25fps; 1280×720@30fps	
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(AGC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
Lens		
Focal Length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
General		
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
- 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- Max. IR LEDs length 20m, Smart IR
- IP66, DC12V

Dimensions(mm)



Accessories (optional)



PFA130



PFB200W

DH-HAC-HDW1100D

1Megapixel 720P Cost-effective IR HDCVI Mini Dome Camera



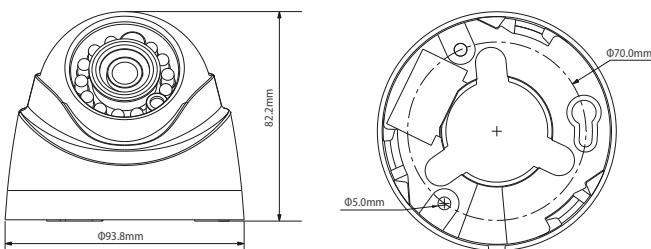
Features

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

Technical Specifications

Model	DH-HAC-HDW1100DP	DH-HAC-HDW1100DN
Camera		
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	1280×720@25 fps; 1280×720@30 fps	
Synchronization	Internal	
Min. Illumination	0.01Lux@F1.2(GC ON), 0Lux IR on	
Video Output	1-channel BNC HDCVI high definition video output	
Camera Features		
Max. IR LEDs Length	20m, Smart IR	
Day/Night	Auto(ICR) / Color / B/W	
Noise Reduction	2D	
Lens		
Focal length	3.6mm (2.8mm, 6mm, 8mm optional)	
Mount Type	M12	
General		
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	Φ93.80mm×82.2mm	
Weight	0.18kg	

Dimensions (mm)



Accessories (optional)



PFA130

PFB200W



HDCVI PTZ Camera

DH-SD63220I-HC

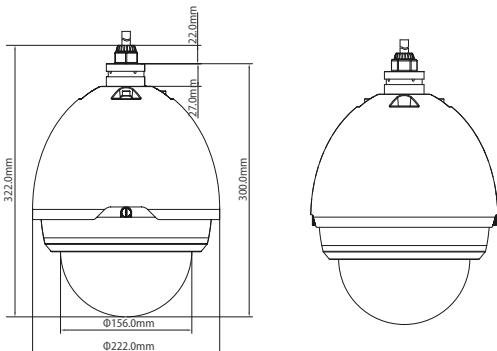
2Mp Full HD HDCVI PTZ Dome Camera



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 400°/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-PFB301C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

Technical Specifications

Model	DH-SD63220I-HC
Camera	
Image Sensor	1/3" 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	1080P (25/30fps), 720P (25/30/50/60fps)
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°~250° /s
Preset Speed	Pan: 400° /s; Tilt: 300° /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 / 2.2A ($\pm 10\%$)
Power Consumption	9.5W, 21W (Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10
Dimensions	Φ222mm×322mm
Weight	7.5kg

DH-SD6C220I-HC

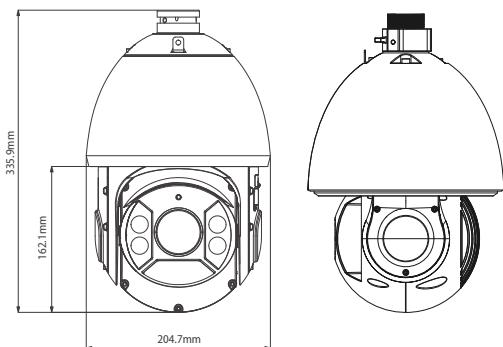
2Mp Full HD HDCVI IR PTZ Dome Camera



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)



DH-PFA114 DH-PFB300C DH-PFB301C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

Technical Specifications

Model	DH-SD6C220I-HC
Camera	
Image Sensor	1/3" 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	1080P (25/30fps), 720P (25/30/50/60fps)
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: -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)
Audio	
Interface	1 channel In
Auxiliary Interface	
RS485	1
Alarm	2/1 channel In/Out
General	
Power Supply	AC 24V/2.2A ($\pm 10\%$)
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-SD40/42/42C212I-HC

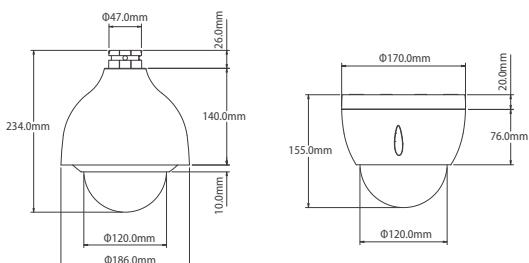
2Mp Mini HDCVI PTZ Dome Camera



Features

- Powerful 12x optical zoom
- Max. 25/30fps@1080P
- 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



Technical Specifications

Model	DH-SD40212I-HC	DH-SD42212I-HC	DH-SD42C212I-HC
Camera			
Image Sensor	1/3" Exmor CMOS		
Effective Pixels	1944(H)×1092(V), 2 Megapixels		
Horizontal Resolution	≥1000TVL		
Scanning System	Progressive		
Electronic Shutter Speed	1/3s ~1/30,000s		
Min. Illumination	Color: 0.05 Lux/F1.6, B/W: 0.005Lux/F1.6		
S/N Ratio	More than 55dB		
Resolution	1080P(25/30fps), 720P(25/30fps)		
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	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		
PTZ			
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°		
Manual Control Speed	Pan: 0.1° ~ 200°/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)		
Audio			
Interface	1 channel In		
Auxiliary Interface			
RS485	1		
Alarm	2/1 channel In/Out		
General			
Power Supply	AC24V/1.5A ($\pm 10\%$)		
Power Consumption	12W, 22W(Heater on)	12W	
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	2.3Kg

Accessories(Optional)-SD42212I-HC



DH-SD63120I-HC

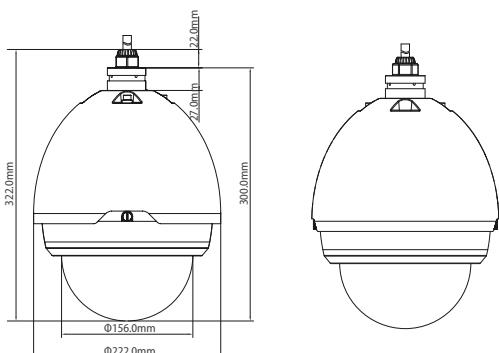
1.3Mp HD HDCVI PTZ Dome Camera



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 400°/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-PFB301C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

Technical Specifications

Model		DH-SD63120I-HC
Camera		
Image Sensor	1/3" Exmor CMOS	
Effective Pixels	1280(H)×960(V), 1.3 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	720P(25/30/50/60fps)	
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° ~250° /s	
Preset Speed	Pan: 400° /s; Tilt: 300° /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/2.2A ($\pm 10\%$)	
Power Consumption	9.5W, 21W (Heater on)	
Working Environment	-40°C ~ 60°C / Less than 90% RH	
Ingress Protection	IP66	
Vandal Resistance	IK10	
Dimensions	Φ222mm×322mm	
Weight	7.5kg	

DH-SD6C120I-HC

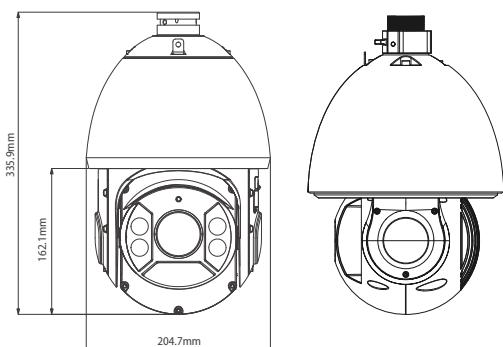
1.3Mp HD HDCVI IR PTZ Dome Camera



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-PFB301C DH-PFA112 DH-PFA113 DH-PFB301S DH-PFA120 DH-PFA150 DH-PFA151

Technical Specifications

Model	DH-SD6C120I-HC
Camera	
Image Sensor	1/3" Exmor CMOS
Effective Pixels	1280(H)×960(V), 1.3 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; 0Lux (IR on)
S/N Ratio	More than 50dB
Resolution	720P (25/30/50/60fps)
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: -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)
Audio	
Interface	1 channel In
Auxiliary Interface	
RS485	1
Alarm	2/1 channel In/Out
General	
Power Supply	AC 24V/2.2A ($\pm 10\%$)
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-SD40/42/42C112I-HC

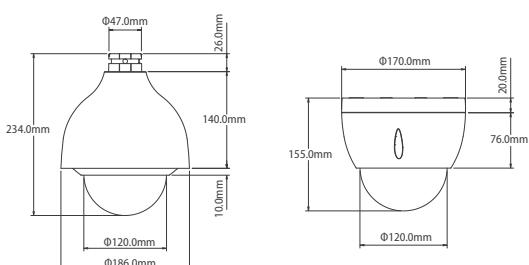
1.3Mp Mini HDCVI PTZ Dome Camera



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-SD40212I-HC



Accessories(Optional)-SD40212I-HC



Technical Specifications

Model	DH-SD40112I-HC	DH-SD42112I-HC	DH-SD42C112I-HC
Camera			
Image Sensor	1/3" Exmor CMOS		
Effective Pixels	1280(H)×960(V), 1.3Megapixels		
Horizontal Resolution	≥700TVL		
Scanning System	Progressive		
Electronic Shutter Speed	1/3s ~1/30,000s		
Min. Illumination	Color: 0.05 Lux / F1.6, B/W: 0.005Lux / F1.6		
S/N Ratio	More than 55dB		
Resolution	720P (25/30/50/60fps)		
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	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		
PTZ			
Pan/Tilt Range	Pan: 0°~360° endless; Tilt: -2°~90°, auto flip 180°		
Manual Control Speed	Pan: 0.1°~200°/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)		
Audio			
Interface	1 channel In		
Auxiliary Interface			
RS485	1		
Alarm	2/1 channel In/Out		
General			
Power Supply	AC24V / 1.5A ($\pm 10\%$)		
Power Consumption	12W, 22W (Heater on)	12W	
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	2.3Kg

Accessories(Optional)-SD42212I-HC



HDCVI

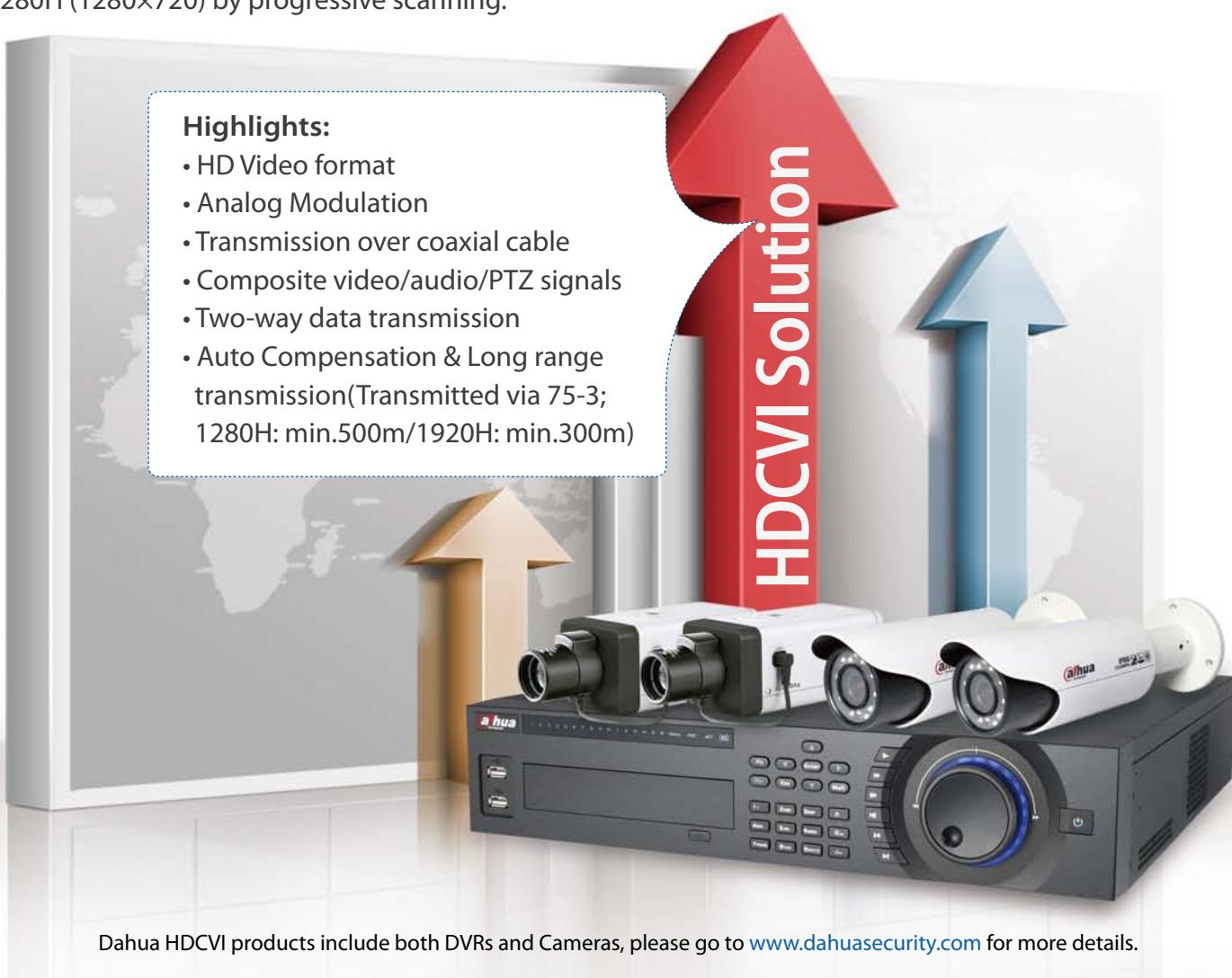
High Definition Composite Video Interface

What is HDCVI ?

HDCVI (High Definition Composite Video Interface) is an over-coaxial-cable analog HD video transmission standard which is in-house technology and it renders two HD video formats —1920H (1920×1080) & 1280H (1280×720) by progressive scanning.

Highlights:

- HD Video format
- Analog Modulation
- Transmission over coaxial cable
- Composite video/audio/PTZ signals
- Two-way data transmission
- Auto Compensation & Long range transmission(Transmitted via 75-3; 1280H: min.500m/1920H: min.300m)



Dahua HDCVI products include both DVRs and Cameras, please go to www.dahuasecurity.com for more details.

DAHUA TECHNOLOGY MAKE YOUR LIFE SAFER

*Design and specifications are subject to change without notice.

HDCVI - 01, Oct 2013



DAHUA TECHNOLOGY CO., LTD.

No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053
Tel: +86-571-87688883 Fax: +86-571-87688815
Email: overseas@dahuatech.com
www.dahuasecurity.com



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