

DH-HAC-HDBW2802R 4K Starlight HDCVI IR Dome Camera

HDCVI



System Overview

Experience 4K video surveillance with the simplicity of reusing existing coaxial infrastructure. The 4K HDCVI camera adopts a powerful Dahua ISP and advanced 1/2" image sensor, which provides superior high quality images. It also supports Starlight and 120dB true WDR for a clear image in poor lighting conditions. In addition, the camera features broadcast-quality audio to provide enhanced supplementary evidence collection. Ultra--high definition and a complete set of features makes the 4K HDCVI camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are demanded.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m transmission for 4K and 4MP HD video via coaxial cable, and up to 300m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Starlight

With the adoption of large sized high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

- · Starlight, 120dB True WDR, 3DNR
- · Max. 4K resolution
- HD/SD switchable
- Audio in interface
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, IK10, DC12V±30%



Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.

The camera complies with an IK10 vandal resistance rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in).

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Pro Series | DH-HAC-HDBW2802R

Technical Specification

Camera

Image Sensor	1/2" CMOS			
Effective Pixels	3840(H)×2160(V), 8MP			
Scanning System	Progressive			
Electronic Shutter Speed	PAL: 1/4s~1/100,000s NTSC: 1/3s~1/100,000s			
Minimum Illumination	0.005Lux/F1.6, 30IRE, 0Lux IR on			
S/N Ratio	More than 65dB			
IR Distance	Up to 30m (98feet)			
IR On/Off Control	Auto / Manual			
IR LEDs	1			
Lens				
Lens Type	Fixed lens / Fixed iris			
Mount Type	Board-in			
Focal Length	3.6mm (2.8mm Optional)			
Max Aperture	F1.6			
Angle of View	H: 87° (110.8°)			
Focus Control	Auto / Manual			
Close Focus Distance	2500mm (1800mm) 98.43'' (70.87'')			

DORI Distance

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm:84m(276ft) 3.6mm: 104m(341ft)
Observe	63px/m (19px/ft)	2.8mm:34m(112ft) 3.6mm:42m(138ft)
Recognize	125px/m (38px/ft)	2.8mm:17m(56ft) 3.6mm: 21m(69ft)
Identify	250px/m (76px/ft)	2.8mm:8m(26ft) 3.6mm:10m(33ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355°
Video	
Resolution	8MP (3840×2160)
Frame Rate	15fps@4K, 20fps@6MP, 25/30fps@4MP
Video Output	1-channel BNC high definition video output / CVBS video output (DIP switch)

Auto (ICR) / Manual		
Multi-language		
BLC / HLC / WDR		
120dB		
AGC		
2D/3D		
Auto / Manual		
Auto / Manual		
CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)		
1		
12V DC ±30%		
Max. 7W (12V DC, IR on)		
-30°C \sim +60°C (-22°F \sim +140°F) / Less than 90% RH * Start up should be done at above-30°C (-22°F)		
-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH		
IP67 & K10		
Aluminium		
Ф122mm×88.9mm (Ф4.8"×3.5")		
0.41kg (0.9lb)		
0.59kg (1.3lb)		

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Ordering In	nformation		Junction Mount	In-ceiling Mount
_			PFA137	PFB200C
	DH-HAC-HDBW2802RP 2.8mm	Description 4K Starlight HDCVI IR Dome Camera,	- All All All All All All All All All Al	
	DH-HAC-HDBW2802RP 3.6mm	PAL		
4K Calliela	DH-HAC-HDBW2802RN 2.8mm	4K Starlight HDCVI IR Dome Camera, NTSC		
DH-HAC-HDBW2802RN 3.6m	DH-HAC-HDBW2802RN 3.6mm		Wall Mount	Pole Mount
	PFA137 Junction box (For use alone) PFB203W		PFB203W + PFA152-E	
	PFB200C	Inceiling mount (For use alone)		\square
PFB203W PFA152-E FPA200W PFA106 PFB220C PFM800-E PFM3201 PFM320 PFM320-015	PFB203W	Wall mount (For use alone or with PFA152-E pole mount)		
	PFA152-E	Pole mount (For use with PFB203W wall mount)		
	Rain shade (For use with PFB203W wall mount or with PFB203W wall mount and PFA152-E pole mount)			
		Adapter Plate of Mini Dome & Eyeball Camera	Wall Mount with Rain Shade	Ceiling Mount (Extensible)
	PFA106		PFA137+PFA200W	PFA106+PFB220C
	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera		
	PFM800-E	Passive HDCVI Balun		
	PFM321	12V 1A Power Adapter		
	PFM320	12V 2A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter	Pole Mount with Rain Shade	
Accessorie	IC III		PFA137+PFA200W+PFA152-E	

Accessories

Optional:



PFA137 Junction box



PFA152-E Pole mount



PFB220C Ceiling mount bracket



PFM321 12V 1A Power Adapter



PFB200C Inceiling mount

1:

PFA200W

Rain shade

PFM320D-015

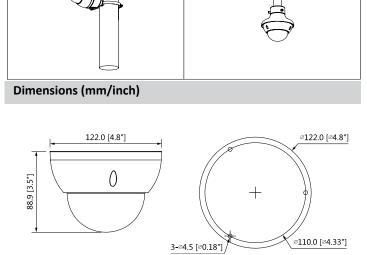
Power Adapter



PFA106 Adapter plate



PFM800-E Passive HDCVI Balun





PFM320

12V 2A Power Adapter