

DH-HAC-HDW1801M

4K HDCVI IR Eyeball Camera



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 1/2.7" CMOS sensor, which provides superior high quality images. In addition, the camera features broadcastquality 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.

Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

*Use OSD menu to switch HDCVI to other video formats.

- · 120dB True WDR, 3DNR
- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8mm; 3.6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, 12V±30%DC













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

Technical Specification		Certifications	
Camera		Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Image Sensor	1/2.7 inch CMOS	Certifications	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels	3840 (H)×2160 (V), 4K	Port	
Electronic Shutter Speed	PAL: 1/3s-1/100000s NTSC: 1/4s-1/100000s	Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on	Power	
IR Distance	Distance up to 30m (98.43ft)	Power Supply	12V±30% DC
IR On/Off Control	Auto/Manual	Power Consumption	Max 4.9W (12V DC, IR on)
IR LEDs	12	Environment	
	Pan: 0°-360° Tilt: 0°-78°	Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Pan/Tilt/Rotation Range	Rotation: 0°-360°	Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Lens		Protection Grade	IP67
Lens Type	Fixed-focal	Structure	
Mount Type	M12	Casing	Metal throughout the whole casing
Focal Length	2.8mm; 3.6mm	Dimensions	Ф93.4mm×79.4mm (3.68″×3.13″)
Max. Aperture	F2.0	Net Weight	300g (0.66lb)
Angle of View	2.8mm: 125°×105°×56° (diagonal×horizontal×vertical) 3.6mm: 104°×87°×47° (diagonal×horizontal×vertical)	Gross Weight	380g (0.84lb)
Iris type	Fixed Iris		
Close Focus Distance	1m/1.8m (3.28ft/5.91ft)		

Identify

15m (49ft) 8m (26ft)

29m (69ft) 15m (36ft)

Recognize

Yes

Yes

Detect

75m (246ft)

146m (351ft)

CVBS: PAL/NTSC

Auto switch by ICR

BLC/HLC/WDR

120dB/WDR

Auto; manual

Auto; manual 2D&3D NR

960H (960× 576/960×480)

Lens

2.8mm

3.6mm

DORI Distance

Video Frame Rate

Resolution

Day/Night

BLC

WDR

White Balance

Gain Control

Smart IR

Noise Reduction

Electronic Defog

Video

Observe

30m (98ft)

58m (141ft)

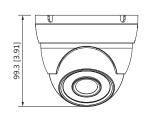
CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps

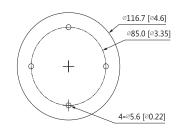
AHD: 4K@15fps; 5M@20fps; 4M@25fps/30fps TVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps 4K (3840×2160); 5M (2592×1944); 4M (2560×1440);

Ordering Information				
Туре	Part Number	Description		
4K Camera	DH-HAC- HDW1801MP- 0280B	4K HDCVI IR Eyeball Camera		
	DH-HAC- HDW1801MN- 0280B			
	DH-HAC- HDW1801MP- 0360B			
	DH-HAC- HDW1801MN- 0360B			
Accessories	PFA13A	Water-proof Junction Box(ceiling mount)		
	PFB204W+ PFA152-E	Water-proof Wall Mount Bracket+Pole Mount Bracket (pole mount)		
	PFB204W	Water-proof Wall Mount Bracket (wall mount)		
	PFM321	12V 1A Power Adapter		
	PFM320	12V 2A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter		

Junction Mount	Wall Mount	Pole Mount
PFA13A	PFB204W	PFB204W+PFA152-E

Dimensions (mm/inch)





Accessories

Optional:



PFA13A Water-proof Junction Box (ceiling mount)



PFB204W Water-proof Wall Mount Bracket (wall mount)



PFB204W+PFA152-E Water-proof Wall Mount Bracket +Pole Mount Bracket (pole mount)



PFM321 12V 1A Power Adapter



PFM320 12V 2A Power Adapter



PFM320D-015 12V 1.5A Power Adapter

