

DH-HAC-HDW1800M

4K Real-time HDCVI IR Eyeball Camera



- · Max. 4K resolution, real-time video transmission
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8mm; 3.6mm; 6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, 12V±30%DC











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. \ast

*Use OSD menu to switch HDCVI to other video formats. Use PFM820 UTC Controller to switch CVBS to HDCVI video format

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.

Smart IR

The camera is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

4K Real-time Image Display

Used together with 4K Real-time XVR, the camera can output 4K real-time video stream with clear details and no lag or smear.



Lite Series | DH-HAC-HDW1800M

Technical Specification						Noise Reduction	2D NR
Camera					Smart IR	Yes	
Image Sensor		1/2.7 inch CMOS				Mirror	Off/On
Effective Pixels		3840 (H)× 2160 (V), 4K				Privacy Masking	Off/On (8 area, rectangle)
Scanning System		Progressive				Certifications	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Certifications	CE (EN55032, EN55024, EN50130-4, EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
S/N Ratio		>65dB				Port	OE (OE OOS SO THE MIT, CONTROL TO NO. SOSSO I)
Minimum Illumination		0.03Lux/F2.0, 30IRE, 0Lux IR on					Video output choices of CVI/TVI/AHD/CVBS by one
Fill Light Working Distance		30 m (98.4 ft)				Video Output	Video Output BNC port
IR On/Off Control		Auto; manual				Power	
IR LED Number		12				Power Supply	12V ±30% DC
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power Consumption	Max 4.3W (12V DC, IR on)
						Environment	
Lens						Operating Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Lens Type		Fixed-focal				Storage Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Mount Type		M12				Protection Grade	IP67
Focal Length		2.8 mm; 3.6 mm; 6 mm				Structure	
Max. Aperture		F2.0	° 105° 5 <i>0° l</i>	di l l		Casing	Metal throughout the whole casing
Angle of View		2.8 mm: 125° x 105° x 56° (diagonal x horizontal x vertical) 3.6 mm: 104° x 87° x 47° (diagonal x horizontal x vertical) 6 mm: 62.4° x54.7° x31.3° (diagonal x horizontal x vertical)				Camera Dimensions	ф93.4mm×79.4mm (ф3.68"×3.13")
						Net Weight	0.27 Kg (0.60lb)
						Gross Weight	0.35 Kg (0.77lb)
Iris Type		Fixed iris					
Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft) 6 mm: 3.6 m (11.8 ft)					
DORI	Lens	Detect	Observe	Recognize	Identify		
	2.8mm	74.7 m (245.1 ft)	29.9 m (98.1 ft)	14.9 m (48.9ft)	7.5 m (24.6 ft)		



DORI Distance

3.6mm

6mm

Frame Rate	CVI: 4K@25/30fps; 4K@15fps; 5M@20fps; 4M@25fps/30fps; AHD: 4K@15fps; TVI: 4K@15fps; CVBS: 960H	
Resolution	4K (3840 × 2160); 5M (2592 × 1944); 4M (2560 × 1440); 960H (960 × 576/960 × 480)	
Day/Night	Auto switch by ICR	
BLC	BLC/HLC/WDR	
WDR	DWDR	
White Balance	Auto; manual	
Gain Control	Auto; manual	

106.7 m

(350.1 ft)

(524.9 ft)

160m

42.7 m

64 m

(140.1 ft)

(210.0ft)

21.3 m

(69.9 ft)

(105.0ft)

32 m

10.7 m

(35.1 ft)

16 m

(52.5ft)

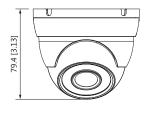


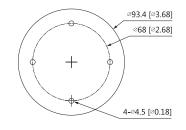
Lite Series | DH-HAC-HDW1800M

Ordering Information						
Туре	Part Number	Description				
	DH-HAC-HDW1800MP 2.8mm	4K HDCVI IR Eyeball Camera				
	DH-HAC-HDW1800MP 3.6mm					
4K Camera	DH-HAC-HDW1800MP 6mm					
4K Calliel a	DH-HAC-HDW1800MN 2.8mm					
	DH-HAC-HDW1800MN 3.6mm					
	DH-HAC-HDW1800MN 6mm					
	PFA13A-E	Water-proof Junction Box				
	PFB204W+PFA152-E	Water-proof Wall Mount Bracket+Pole Mount Bracket				
	PFB204W	Water-proof Wall Mount Bracket				
	PFA106+PFB220C	Adapter Plate + Ceiling Mount Bracket				
Accessories	PFM800-4K	Passive Video Balun				
	PFM800B-4K	Passive Video Balun				
	PFM320D Series	12V 2A Power Adapter				
	PFM321D Series	12V 1A Power Adapter				
	PFM320D-015	DC12V1.5A Power Adapter				

Junction Mount	Wall Mount		
PFA13A-E	PFB204W		
Pole Mount	Ceiling Mount		
PFB204W+PFA152-E	PFA106+PFB220C		

Dimensions (mm[inch])





Accessories

Optional:



PFA13A-E Water-proof Junction Box



PFB204W+PFA152-E Water-proof Wall Mount Bracket+Pole Mount Bracket



PFB204W Water-proof Wall Mount Bracket



PFA106+PFB220C Adapter Plate + Ceiling Mount Bracket



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM321D Series 12V 2A Power Adapter



PFM320D-015 DC12V1.5A Power Adapter



