

DH-HAC-HDW1800TL/TL-A 4K Real-time HDCVI IR Eyeball Camera



• Max. 4K resolution, real-time video transmission

- CVI/CVBS/AHD/TVI switchable
- Built-in mic (-A)
- · Fixed lens (2.8mm; 3.6mm 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 technol-ogy 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.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal

transmis-sion 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. 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. 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 $\pm 30\%$ 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.

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Lite Series | DH-HAC-HDW1800TL/TL-A

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Camera	
Image Sensor	1/2.7 inch CMOS
Effective Pixels	3840 (H)× 2160 (V), 4K
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s
S/N Ratio	>65dB
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on

IR On/Off Control IR LED Number

Pan/Tilt/Rotation Range

Fill Light Working Distance

Lens

Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8mm; 3.6mm			
Max. Aperture		F2.0			
Angle of View		2.8mm: 125° x 105° x 56° (diagonal x horizonta vertical) 3.6mm: 104° x 87° x 47° (diagonal x horizontal vertical)			
Iris Type		Fixed iris			
Close Focus Distance		2.8mm: 1.0 m (3.3 ft) 3.6mm: 1.9 m (6.2 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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)
	3.6mm	106.7 m (350.1 ft)	42.7 m (140.1 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)

30 m (98.4 ft)

Auto; manual

Pan: 0°–360° Tilt: 0°–78°

Rotation: 0°-360°

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Off/On
Off/On (8 area, rectangle)
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)
Video output choices of CVI/TVI/AHD/CVBS by one BNC port
One channel, built-in mic (-A)
12V ±30% DC
Max 4.3W (12V DC, IR on)
-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
IP67
Cover: plastic; inner core: metal
Φ97 mm × 85.8 mm (Φ3.82"×3.38")
0.3Kg (0.66lb)
0.38Kg (0.84lb)

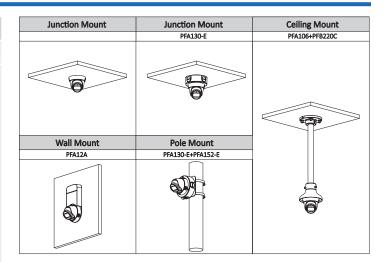
Video

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
Noise Reduction	2D NR
Smart IR	Yes

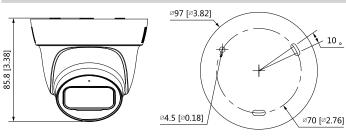
Lite Series | DH-HAC-HDW1800TL/TL-A

Ordering Information

Туре	Part Number	Description	
4K Camera	DH-HAC- HDW1800TLP-2.8 mm		
	DH-HAC- HDW1800TLP-3.6 mm		
	DH-HAC- HDW1800TLN-2.8 mm	4K HDCVI IR Eyeball Camera	
	DH-HAC- HDW1800TLN-3.6 mm		
	DH-HAC- HDW1800TLP-A-2.8 mm		
	DH-HAC- HDW1800TLP-A-3.6 mm		
	DH-HAC- HDW1800TLN-A-2.8 mm		
	DH-HAC- HDW1800TLN-A-3.6 mm		
Accessories	PFA130-E	Water-proof Junction Box	
	PFA12A	Plastic Junction Box	
	PFA130-E+PFA152-E	Water-proof Junction Box+Pole Mount Bracket	
	PFA106+PFB220C	Adapter Plate + Ceiling Mount Bracket	
	PFM800-4K	Passive Video Balun	
	PFM800B-4K	Passive Video Balun	
	PFM320D-015	12V 1.5A Power Adapter	



Dimensions (mm[inch])



Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA106+PFB220C Adapter Plate + Ceiling Mount Bracket



PFM320D-015 DC12V1.5A Power Adapter



DH-PFA12A Plastic Junction Box



PFM800-4K Passive Video Balun



PFA130-E+PFA152-E Water-proof Junction Box+Pole Mount Bracket



PFM800B-4K Passive Video Balun



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