

# DH-HAC-HDW1801TL/TL-A

### 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.

#### **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.

\*Broadcast-quality Audio is available for some models of HDCVI cameras

- · 120dB True WDR, 3DNR
- · Max. 4K resolution
- · 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



#### **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.

#### 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  $\pm 30\%$  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.

## Lite Plus Series | DH-HAC-HDW1801TL/TL-A

#### **Technical Specification**

Lens

Privacy Masking

Detect

Observe

Recognize

Identify

#### Camera

Camera	
Image Sensor	1/2.7 inch CMOS
Effective Pixels	3840 (H)×2160 (V), 4K
Electronic Shutter Speed	PAL: 1/3s-1/100000s NTSC: 1/4s-1/100000s
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on
IR Distance	Distance up to 30m (98.43ft)
IR On/Off Control	Auto/Manual
IR LEDs	1
Pan/Tilt/Rotation Range	Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360°
Lens	
Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8mm; 3.6mm
Max. Aperture	F2.0
Angle of View	2.8mm: 125°×105°×56° (diagonal×horizontal×vertical) 3.6mm: 104°×87°×47° (diagonal×horizontal×vertical)
Iris type	Fixed Iris
Close Focus Distance	1m/1.8m (3.28ft/5.91ft)

Certifications	
Certifications	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)
Port	
Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Audio Port	Built-in mic (-A)
Power	
Power Supply	12V±30% DC
Power Consumption	Max 5.2W (12V DC, IR on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Protection Grade	IP67
Structure	
Casing	Metal inner core+plastic cover
Dimensions	φ97mm×85.8mm (3.82"×3.38")
Net Weight	300g (0.66lb)
Gross Weight	380g (0.84lb)

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DORI Distance	2.8mm	75m (246ft)	30m (98ft)	15m (49ft)	8m (26ft)	
	3.6mm	146m (351ft)	58m (141ft)	29m (69ft)	15m (36ft)	
Video						
Video Frame Rate		CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps CVBS: PAL/NTSC AHD: 4K@15fps; 5M@20fps; 4M@25fps/30fps TVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps				
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		120dB/WDR				
White Balance		Auto; manual				
Gain Control		Auto; manual				
Noise Reduction		2D&3D NR				
Smart IR		Yes				
Electronic Defog		Yes				
Digital Zoom		4X				
Mirror		Off/On				

Off/On (8 Area, Rectangle)

Ordering Information				
Туре	Part Number	Description		
4K Camera	DH-HAC- HDW1801TLP- 0280B			
	DH-HAC- HDW1801TLN- 0280B			
	DH-HAC- HDW1801TLP- 0360B	4K HDCVI IR Eyeball Camera		
	DH-HAC- HDW1801TLN- 0360B			
	DH-HAC- HDW1801TLP-A- 0280B			
	DH-HAC- HDW1801TLN-A- 0280B			
	DH-HAC- HDW1801TLP-A- 0360B			
	DH-HAC- HDW1801TLN-A- 0360B			
Accessories	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)		
	PFA12A	Plastic Junction box (For use alone)		
	PFA152-E	Pole box (For usewith PFA130-E junction mount		
	PFM800-4K	Passive Video Balun		
	PFM800B-4K	Passive Video Balun		
	PFM320D-015	12V 1.5A Power Adapter		
	PFM300	12V 2A Power Adapter		

#### Accessories

# Optional:

## -

PFA130-E Junction box (For use alone or with PFA152-E pole mount)



PFM800-4K Passive Video Balun



PFM300 12V 2A Power Adapter



PFA12A Plastic Junction box (For use alone)







PFA152-E

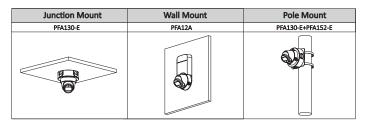
Pole box

(For usewith PFA130-E

junction mount)

PFM800B-4K Passive Video Balun

PFM320D-015 12V 1.5A Power Adapter



#### Dimensions (mm/inch)

