

# DH-HAC-HDW1801TLM(-A)

4K HDCVI IR Eyeball Camera



- · Max. 4K resolution
- · 120 dB true WDR, 3D NR
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- · Built-in mic (-A)
- · Max. IR length 30 m, Smart IR
- · IP67, DC12V















#### **System Overview**

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

#### **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 XVR, 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

#### **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.

\* 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 2MP/5MP/8MP 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 high definition video surveillance without the hassle of configuring a network.

#### Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

#### Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

#### **Smart Illumination**

The camera is designed with 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.

#### Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

# Lite Series | DH-HAC-HDW1801TLM(-A)

Technical Specification							Gain Control	Auto/Manual
Camera					Noise Reduction	3D NR		
Image Sensor		4K CMOS					Smart Illumination	Yes
Max. Resolution		3840 (H) × 2160 (V)					Defog	Electronic defog
Pixel		8MP					Digital Zoom	4×
Scanning System		Progressive					Mirror	Off/On
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s					Privacy Masking	Off/On (8area,rectangle)
S/N Ratio		> 65 dB					Certifications	
Min. Illumination		0.03Lux/F2.0, 30IRE, 0Lux IR on					Certifications	CE (EN55032, EN55024, EN50130-4, EN62368-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Illumination Distance		30 m (98.4 ft)					Port	
Illuminator On/Off Control Illuminator Number		Auto; manual  1 (IR light)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
		Pan: 0°–360°					Audio Input	One channel built-in mic (-A)
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Power	
Lens							Power Supply	12V ±30% DC
Lens Type		Fixed lens					Power Consumption	Max 5.2W (12V DC, IR on)
Mount Type		M12					Environment	
Focal Length		2.8 mm; 3.6 mm;					Operating Temperature	$-40^{\circ}\text{C}$ to +60°C (-40°F to 140°F); < 95% (noncondensation)
Max. Aperture		F2.0  2.8 mm:H:105° V:56° D:125°					Storage Temperature	-40°C to +60°C (-40°F to 140°F); < 95% (non- condensation)
Field of View		2.8 mm:H:105 V:56 D:125 3.6 mm: H:87° V:47° D:104°					Protection Grade	IP67
Iris Type		Fixed					Structure	
Close Focus Distance		2.8 mm: 1 m (3.3 ft) 3.6 mm: 1.8 m (5.9 ft)					Casing	Metal throughout the whole casing
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Camera Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")
	2.8 mm	75.0 m (246.1 ft)	30.0 m (98.4 ft)	15.0 m (49.2 ft)	8.0 m (26.2ft)		Net Weight	0.33 kg (0.73 lb)
	3.6 mm	146.0 m (479.0 ft)	58.0 m (190.3 ft)	16.0 m (52.5 ft)	15.0 m (49.2 ft)		Gross Weight	0.47 kg (1.04 lb)
Video		,	, ,	, ,	, ,			

PAL: 4K@15fps; 5M@20fps; 4M@25fps; NTSC:4K@15fps; 5M@20fps; 4M@30fps;

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PAL: 4K@15fps; 5M@20fps; 4M@25fps; NTSC:4K@15fps; 5M@20fps; 4M@30fps;

AHD:

CVBS: PAL: 960H; NTSC: 960H 4K (3840×2160); 5M (2592×1944);

4M (2560×1440); 960H (960× 576/960×480);

Auto switch by ICR

BLC/HLC/WDR

Auto/Manual

120dB

Video Frame Rate

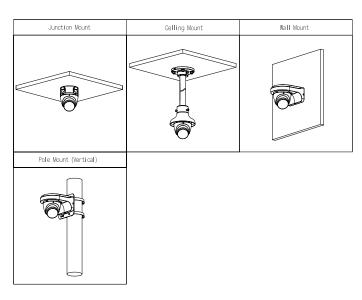
Resolution

Day/Night BLC

White Balance

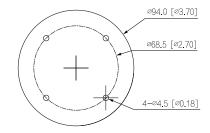
WDR

Ordering Information							
Туре	Part Number	Description					
	DH-HAC- HDW1801TLMP	4K HDCVI IR Eyeball Camera, PAL					
4K Camera	DH-HAC- HDW1801TLMN	4K HDCVI IR Eyeball Camera, NTSC					
4K Camera	DH-HAC- HDW1801TLMP-A	4K HDCVI IR Eyeball Camera, PAL					
	DH-HAC- HDW1801TLMN-A	4K HDCVI IR Eyeball Camera, NTSC					
	PFA13A-E	Junction box					
	PFB205W	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA106	Adapter plate					
Accessories	PFB220C	Ceiling Mount Bracket					
	PFM800-4K	Passive HDCVI Balun					
	PFM321	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



# Dimensions (mm[inch])

# 85.7 [3.37]



### **Accessories**

# Optional:



PFA13A-E Junction box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM800-4K Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester