

# DH-HAC-HDW1500TLMQ(-A)

5MP Starlight HDCVI Quick-to-install IR Eyeball Camera



- \* The parameters and datasheets below can only be applied to 1500-S2 series.
- · Max 25 fps@5MP (16:9 video output)
- · Quick-to-install eyeball saves installation time
- · 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, 12V DC













#### **System Overview**

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance make the camera an ideal choice for SMB solutions.

#### **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.

#### **Easy Installation**

HDCVI Quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

#### **Long Distance Transmission**

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 5MP HD video through coaxial cable, and up to 300 m through 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.

#### Smart IR

The camera is designed with IR LED 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 comes closer to the camera.

#### **Multi-formats**

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu. This feature makes the camera compatible with most end users' existing HD/SD DVRs.

#### 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.

#### Protection

lightning.

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. With working temperature range of –40 °C to +60 °C (–40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting  $\pm 30\%$  input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4kV lightning rating provides protection against the camera and its structure from the effects of

# Lite Series | DH-HAC-HDW1500TLMQ(-A)

Technical Specification						WDR	DWDR
Camera						White Balance	Auto; manual
Image Sensor		1/2.7 inch CMOS				Gain Control	Auto; manual
Max. Resolution		2880 (H) × 1620 (V)				Noise Reduction	2D NR
Pixel		5MP				Smart IR	Yes
Scanning System		Progressive				Mirror	Off/On
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		> 65 dB				Certifications	
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on					CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014, EN 62368-1:2014+A11:2017) 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)				Certifications	
Illuminator On/Off Control		Auto; manual					
Illuminator Number		1				Port	
Day /Tile /Datation Day		Pan: 0°–360°				Audio Interface	One channel built-in mic (-A)
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens						Power	
Lens Type		Fixed-focal				Power Supply	12V ±30% DC
Mount Type		M12				Power Consumption	Max 3.2W (12V DC, IR on)
Focal Length		2.8 mm; 3.6 mm				Environment	
Max. Aperture		F1.6  2.8 mm: 132° × 111° × 58°				Operating Temperature	-40°C to +60°C (-40°F to 140°F); < 95% (non- condensation)
Field of View		(diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)				Storage Temperature	$-40^{\circ}\text{C}$ to +60°C (–40°F to 140°F); < 95% (noncondensation)
Iris Type		Fixed iris				Protection Grade	IP67
по туре						Structure	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)				Casing	Metal dome+metal cover+plastic decorative ring
	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	$\varphi109.9\;\text{mm}\times88.1\;\text{mm}$ ( $\varphi4.33"\times3.47"$ )
DORI Distance	2.8 mm	63.6 m (208.7 ft)	25.4 m	12.7 m	6.4 m	Net Weight	0.33 kg (0.73 lb)
		(208.7 IL) 80 m	(83.3 ft) 32 m	(41.7 ft) 16 m	(21.0ft) 8 m	Gross Weight	0.44 kg (0.97 lb)
	3.6 mm	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.2 ft)		
Video							
		CVI					

PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps

5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)

AHD:

TVI:

Frame Rate

Resolution

Day/Night

BLC

PAL: 4M@25 fps; NTSC: 4M@30 fps

PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H

Auto switch by ICR

BLC/HLC/DWDR

Ordering Information							
Туре	Part Number	Description					
	DH-HAC- HDW1500TLMQP 2.8 mm						
	DH-HAC- HDW1500TLMQN 2.8 mm						
	DH-HAC- HDW1500TLMQP-A 2.8 mm						
EMD Commun	DH-HAC- HDW1500TLMQN-A 2.8 mm	5MP HDCVI IR Eyeball Camera					
5MP Camera	DH-HAC- HDW1500TLMQP 3.6 mm						
	DH-HAC- HDW1500TLMQN 3.6 mm						
	DH-HAC- HDW1500TLMQP-A 3.6 mm						
	DH-HAC- HDW1500TLMQN-A 3.6 mm						
	PFA13G	Junction Box					
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)					
	PFA152-E	Pole Mount Bracket (For use with PFB205W)					
Accessories	PFA130-E	IP66 Junction Box					
	PFM800-4K	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

### **Accessories**

# Optional:







PFA13G Junction Box

PFB205W Wall Mount Bracket (For use alone or with PFA152-E)

PFA152-E Pole Mount Bracket (For use with PFB204W)









PFA130-E IP66 Junction Box

PFM800-4K Passive HDCVI Balun

PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

Junction Mount	Wa <b>ll</b> Mount	Ceiling Mount
Pole Mount(Vertical)		I

# Dimensions (mm[inch])



