

# DH-HAC-HDW1500TMQ(-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)
- · CVI/CVBS/AHD/TVI switchable
- · Quick-to-install eyeball saves installation time
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- · Built-in mic(-A)
- · Max. IR length 60 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.\*

stActual 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-HDW1500TMQ(-A)

Technical Specification					BLC	BLC/HLC/DWDR	
Camera					WDR	DWDR	
Image Sensor	1/2.7 inch C	MOS			White Balance	Auto; manual	
Max. Resolution	2880 (H) × 1	620 (V)			Gain Control	Auto; manual	
Pixel	5MP				Noise Reduction	2D NR	
Scanning System	Progressive				Smart IR	Yes	
Electronic Shutter Speed		-1/100,000 s s–1/100,000 s			Mirror	Off/On	
S/N Ratio	> 65 dB	-,,			Privacy Masking	Off/On (8 areas, rectangle)	
Min. Illumination	0.005 Lux/F1.6, 30IRE, 0 Lux IR on				Certifications	Certifications	
Illumination Distance	nation Distance 60 m (196.9 ft)				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 6236		
Illuminator On/Off Contro					Certifications	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)	
numinator Number	Pan: 0°–360	٥			Port	0E (0E00550 Freshly 65/1622.210.00550 T)	
Pan/Tilt/Rotation Range Tilt: 0°–78° Rotation: 0°–360°				Audio Interface	One channel built-in mic (-A)		
Lens					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Lens Type Fixed-focal					Power	·	
Mount Type M12					Power Supply	12V ±30% DC	
Focal Length 2.8 mm; 3.6 mm; 6 mm					Power Consumption	Max 5.2W (12V DC, IR on)	
Max. Aperture F1.6				Environment			
Field of View	(diagonal × l 3.6 mm: 109	$2^{\circ} \times 111^{\circ} \times 58^{\circ}$ horizontal × ve $9^{\circ} \times 92^{\circ} \times 48^{\circ}$	,		Operating Temperature	$-40^{\circ}\text{C}$ to +60°C (–40°F to 140°F); < 95% (noncondensation)	
	6 mm: 65° ×	horizontal × ve 57° × 30° horizontal × ve	,		Storage Temperature	$-40^{\circ}$ C to $+60^{\circ}$ C ( $-40^{\circ}$ F to $140^{\circ}$ F); < 95% (noncondensation)	
Iris Type	Fixed iris				Protection Grade	IP67	
Close Focus Distance	2.8 mm: 0.9 3.6 mm: 1.6				Structure		
siose rocus Bistunce	6 mm: 3.1 m				Casing	Metal dome+metal cover+plastic decorative ring	
Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	φ121.9 mm × 99.1 mm (φ4.8" × 3.9")	
DORI 2.8 mm Distance	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0ft)	Net Weight	0.4 kg (0.88 lb)	
3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	Gross Weight	0.6 kg (1.32 lb)	
6 mm	120 m (393.7 ft)	48 m (157.5 ft)	24m (78.7 ft)	12m (39.4 ft)			
Video	,	,	,	. ,			

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: 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

TVI:

Frame Rate

Resolution

Day/Night

Ordering Information					
Туре	Part Number	Description			
	DH-HAC- HDW1500TMQP 2.8 mm DH-HAC-				
	HDW1500TMQN 2.8 mm				
	DH-HAC- HDW1500TMQP 3.6 mm				
	DH-HAC- HDW1500TMQN 3.6 mm				
	DH-HAC- HDW1500TMQP 6 mm	5MP HDCVI IR Eyeball Camera			
	DH-HAC- HDW1500TMQN 6 mm				
5MP Camera	DH-HAC- HDW1500TMQP-A 2.8 mm				
	DH-HAC- HDW1500TMQN-A 2.8 mm				
	DH-HAC- HDW1500TMQP-A 3.6 mm				
	DH-HAC- HDW1500TMQN-A 3.6 mm				
	DH-HAC- HDW1500TMQP-A 6 mm				
	DH-HAC- HDW1500TMQN-A 6 mm				
	PFA137	Junction Box			
	PFA130-E	P66 Junction Box			
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)			
Accessories	PFA152-E	Pole Mount Bracket (For use with PFB205W)			
	PFM8000-4K	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			

# Accessories

# **Optional:**





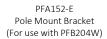


PFA137 Junction Box

PFA130-E P66 Junction Box

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







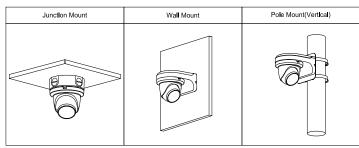
PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



# Dimensions (mm[inch])

