

# DH-HAC-HDW1500T-Z(-A)

5MP Starlight HDCVI 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
- · 2.7 mm-12 mm motorized lens
- · Built-in mic(-A)
- $\cdot$  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.

#### **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 come 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

sign. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of  $-30\,^{\circ}\text{C}$  to  $+60\,^{\circ}\text{C}$  ( $-22\,^{\circ}\text{F}$  to  $+140\,^{\circ}\text{F}$ ), the camera is designed for extreme temperature environments. Supporting  $\pm30\%$  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 lightning.

The camera's outstanding reliability is unsurpassed due to its rugged de-



## Lite Series | DH-HAC-HDW1500T-Z(-A)

Technical Specification						White Balance	Auto; manual
Camera						Gain Control	Auto; manual
Image Sensor		1/2.7 inch CMOS				Noise Reduction	2D NR
Max. Resolution		2880 (H) × 1620 (V)				Smart IR	Yes
Pixel		5MP				Mirror	Off/On
Scanning System		Progressive				Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Certifications	
S/N Ratio		> 65 dB				Certifications	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)
Min. Illumination		0.005 Lux/F	1.6, 30IRE, 0 Lu	ıx IR on			
Illumination Distance		60 m (196.9	ft)				
Illuminator On/Off Control		Auto; manua	al			Dort	
Illuminator Number		2				Port	
Pan/Tilt/Rotation Range		Pan: 0°-360 Tilt: 0°-78°	•			Audio Output	One channel built-in mic (-A)
		Rotation: 0°–360°				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens						Power	
Lens Type		Motorized v	ari-focal			Power Supply	DC 12V ±30%
Auto Focus		N/A				Power Consumption	Max 6.6W (12V DC, IR on)
Mount Type		ф14				Environment	
Focal Length		2.7 mm-12 i	mm			Operating Temperature	$-30^{\circ}\text{C}$ to +60°C (–22°F to +140°F); < 95% (noncondensation)
Max. Aperture		F1.6 Diagonal: 39	9°–130°			Storage Temperature	$-30^{\circ}\text{C}$ to +60°C (–22°F to +140°F); < 95% (noncondensation)
Field of View		Horizontal: 3 Vertical: 19°				Protection Grade	IP67
Iris Type		Fixed iris				Structure	
Close Focus Distance		0.5 m (1.64 ft)				Casing	Metal throughout the whole casing
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	φ122 mm × 104.8 mm (φ4.80" × 4.13")
	2.7 mm	69 m (226.37 ft)	27.6 m (90.55 ft)	13.8 m (45.27 ft)	6.9 m (22.63 ft)	Net Weight	0.57 kg (1.26 lb)
	12 mm	191.6 m (628.6 ft)	76.64 m (251.44 ft)	38.32 m (125.72 ft)	19.16 m (62.86 ft)	Gross Weight	0.72 kg (1.59 lb)
				,			

## Video

Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H	
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)	
Day/Night	Auto switch by ICR	
BLC	BLC/HLC/DWDR	
WDR	DWDR	

Ordering Information						
Туре	Part Number	Description				
	DH-HAC-HDW1500TP-Z 2.7 mm-12 mm					
5MP Starlight	DH-HAC-HDW1500TN-Z 2.7 mm–12 mm	5MP Starlight HDCVI IR Eyeball Camera				
Camera	DH-HAC-HDW1500TP- Z-A 2.7 mm-12 mm					
	DH-HAC-HDW1500TN- Z-A 2.7 mm–12 mm					
	PFA137	Junction Box				
Accessories	PFA130-E	IP66 Junction Box				
	PFB205W	Wall Mount Bracket (Use alone or with PFA152-E)				



## Lite Series | DH-HAC-HDW1500T-Z(-A)

	PFA152-E	Pole Mount Bracket (Use with PFB205W)
	PFA106	Mount Adapter (Use with PFB220C)
	PFB220C	Ceiling Mount Bracket (Use with PFA106)
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter
	PFM820 (Only 1080P and below are available)	UTC Controller
	PFM904	Integrated Mount Tester

#### **Accessories**

## **Optional:**



PFA137 Junction Box



PFA130-E IP66 Junction Box



PFA152-E Pole Mount Bracket (For use with PFB205W)



PFA106 Mount Adapter (For use with PFB220C)



PFB220C Ceiling Mount Bracket (For use with PFA106)

PFB205W

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



PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM320D-015 12V 1.5A Power Adapter

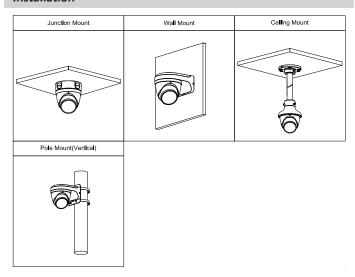


PFM820 (Only 1080P and below are available) UTC Controller



Integrated Mount Tester

## Installation



## Dimensions (mm [inch])

