

DH-HAC-HDBW1500R-Z-POC

5MP Starlight HDCVI IR Dome Camera



* The parameters and datasheets below can only be applied to 1500-S2 series.
* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.

- Max 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- 2.7 mm–12 mm motorized lens
- Max. IR length 30 m, Smart IR
- IP67, IK10, PoC (only CVI)/12V±30% DC



System Overview

Built for convenience, the PoC Series features highly reliable cameras that are powered directly by recorders on the same coaxial cable* that its videos are transmitted over. HDCVI PoC technology greatly reduces material and installation cost, making it an ideal choice for customers who are on a tight budget and are working with scenes that require complex deployment.

*We recommend choosing RG59 or RG6 cable for PoC transmission.

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.

Starlight

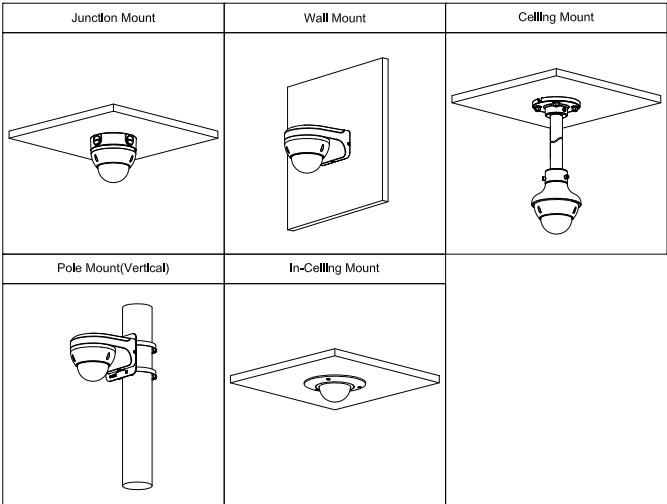
With the adoption of large sized high performance sensor and large aperture lens, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

Protection

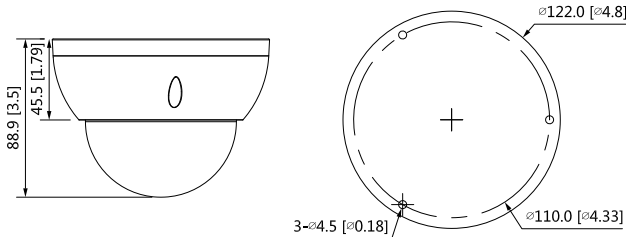
The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±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 lightning.

Technical Specification						BLC		BLC/HLC/DWDR	
Camera						WDR		DWDR	
Image Sensor		1/2.7 inch CMOS				White Balance		Auto; manual	
Max. Resolution		2880 (H) × 1620 (V)				Gain Control		Auto; manual	
Pixel		5MP				Noise Reduction		2D NR	
Scanning System		Progressive				Smart IR		Yes	
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 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			
Illumination Distance		30 m (98.4 ft)				CE (EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)			
Illuminator On/Off Control		Auto; manual				Port			
Illuminator Number		2				Video Output			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				Video output choices of CVI/TVI/AHD/CVBS by one BNC port			
Lens						Power			
Lens Type		Motorized vari-focal				Power Supply			
Mount Type		φ14				PoC (only CVI)/12V±30% DC			
Focal Length		2.7 mm–12 mm				Power Consumption			
Max. Aperture		F1.6				Max 5.5W (12 VDC, IR on); PoC (AT)			
Field of View		Diagonal: 39°–130° Horizontal: 34°–107° Vertical: 19°–55°				Environment			
Iris Type		Fixed iris				Operating Temperature			
Close Focus Distance		0.5 m (1.64 ft)				–30 °C to +60 °C (–22 °F to +140 °F); < 95% (non-condensation)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Storage Temperature			
	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)	–30 °C to +60 °C (–22 °F to +140 °F); < 95% (non-condensation)			
	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)	Protection Grade			
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					IP67, IK10			
						Structure			
						Casing		Metal throughout the whole casing	
						Camera Dimensions		φ122 mm × 88.9 mm (φ4.8" × 3.5")	
						Net Weight		0.47 kg (1.04 lb)	
						Gross Weight		0.62 kg (1.34 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							

Ordering Information		
Type	Part Number	Description
5MP Starlight Camera	DH-HAC-HDBW1500RP-Z-POC 2.7 mm–12 mm	5MP Starlight HDCVI POC IR Dome Camera
	DH-HAC-HDBW1500RN-Z-POC 2.7 mm–12 mm	
Accessories	PFA123	IP66 Junction Box
	PFA137	Junction Box
	PFB203W	Wall Mount Bracket (Use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (Use with PFB203W)
	PFB220C	Ceiling Mount Bracket (Use with PFA106)
	PFA106	Mount Adapter (Use with PFB220C)
	PFB200C	In-ceiling Mount Bracket
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA123
IP66 Junction Box



PFA137
Junction Box



PFB203W
Wall Mount Bracket
(For use alone or with
PFA152-E)



PFA152-E
Pole Mount Bracket
(For use with PFB203W)



PFB220C
Ceiling Mount Bracket
(For use with PFA106)



PFA106
Mount Adapter
(For use with PFB220C)



PFB200C
In-ceiling Mount Bracket



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester