

# DH-HAC-HDBW1500R-Z-POC

5MP Starlight HDCVI IR Dome 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
- Max. IR length 30 m, Smart IR
- IP67, IK10, PoC (only CVI)/12V±30% 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. Besides, this model is a PoC camera which can be powered by PoC XVR over a single coaxial cable with video, requiring no separate power supplies. PoC reduces time and cost for users, making it an ideal choice for applications with complex deployment but a tight budget.

## 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.

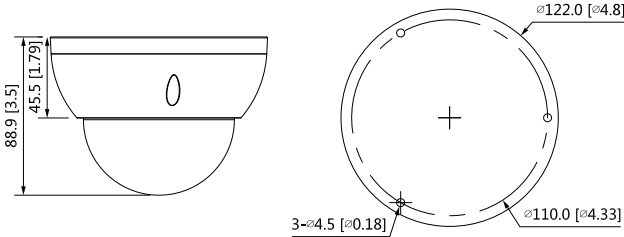
With working temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments.

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						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		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)	
S/N Ratio		> 65 dB							
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on							
Illumination Distance		30 m (98.4 ft)							
Illuminator On/Off Control		Auto; manual							
Illuminator Number		2				Port			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Lens						Power			
Lens Type		Motorized vari-focal				Power Supply		PoC (only CVI)/12V±30% DC	
Auto Focus		N/A				Power Consumption		Max 5.5W (12V DC, IR on); PoC (AT)	
Mount Type		φ14				Environment			
Focal Length		2.7 mm–12 mm				Operating Temperature		–30°C to +60°C (–22°F to +140°F); < 95% (non-condensation)	
Max. Aperture		F1.6				Storage Temperature		–30°C to +60°C (–22°F to +140°F); < 95% (non-condensation)	
Field of View		Diagonal: 39°–130° Horizontal: 34°–107° Vertical: 19°–55°				Protection Grade		IP67, IK10	
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 × 88.9 mm (φ4.8" × 3.5")	
	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		0.47 kg (1.04 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		0.62 kg (1.34 lb)	
Video						Ordering Information			
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				Type	Part Number	Description	
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)				5MP Starlight Camera	DH-HAC-HDBW1500RP-Z-POC 2.7 mm–12 mm		5MP Starlight HDCVI POC IR Dome Camera
Day/Night		Auto switch by ICR					DH-HAC-HDBW1500RN-Z-POC 2.7 mm–12 mm		
BLC		BLC/HLC/DWDR				Accessories	PFA123	IP66 Junction Box	
WDR		DWDR					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

Junction Mount	Wall Mount	Ceiling Mount
Pole Mount(Vertical)	In-Ceiling Mount	