

DH-HAC-HDBW1500R-Z

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 V4.001.000001.0.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, 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

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 $-30\,^{\circ}\text{C}$ to $+60\,^{\circ}\text{C}$ ($-22\,^{\circ}\text{F}$ to $+140\,^{\circ}\text{F}$), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ 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 lightning.

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Technical	Specification	1				Day/Night	Auto switch by ICR
Camera						BLC	BLC/HLC/DWDR
Image Sensor		1/2.7 inch CMOS				WDR	DWDR
Max. Resoluti	ion	2880 (H) × 1620 (V)				White Balance	Auto; manual
Pixel		5MP				Gain Control	Auto; manual
Scanning Syst	em	Progressive				Noise Reduction	2D NR
Electronic Shu	utter Speed	PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Smart IR	Yes
S/N Ratio		> 65 dB				Mirror	Off/On
Min. Illumina	tion	0.005 Lux/F1	6, 30IRE, 0 Lu	x IR on		Privacy Masking	Off/On (8 areas, rectangle)
Illumination D	Distance	30 m (98.4 ft)				Certifications	
Illuminator On/Off Control		Auto; manual				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)
Illuminator Number		Pan: 0°-355°					FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Pan/Tilt/Rotation Range		Tilt: 0°–75° Rotation: 0°–355°				Port	
Lens						Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens Type		Motorized vari-focal				Power	
Auto Focus	Auto Focus					Power Supply	DC 12V ±30%
Mount Type		ф14				Power Consumption	Max 5.5W (12V DC, IR on)
Focal Length	Focal Length		nm			Environment	
Max. Aperture		F1.6 Diagonal: 39°–130°				Operating Temperature	-30°C to +60°C (-22°F to +140°F); < 95% (non- condensation)
Field of View		Horizontal: 34°–107° Vertical: 19°–55°				Storage Temperature	-30°C to $+60$ °C (-22 °F to $+140$ °F); < 95% (non-condensation)
Iris Type		Fixed iris				Protection Grade	IP67, IK10
Close Focus Distance		0.5 m (1.64 ft)				Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing	Metal throughout the whole casing
	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)	Camera Dimensions	φ122 mm × 88.9 mm (φ4.8" × 3.5")
	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)	Net Weight	0.47 kg (1.04 lb)
		t, Observe, Recognize, Identify) is a standard system				Gross Weight	0.62 kg (1.34 lb)
	(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/						

Video

project design tool.

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)

Ordering Information						
Туре	Part Number	Description				
5MP Starlight	DH-HAC- HDBW1500RP-Z 2.7 mm–12 mm	5MP Starlight HDCVI IR Dome Camera				
Camera	DH-HAC- HDBW1500RN-Z 2.7 mm-12 mm	JIVIT STATIBLE LIDE VITA DULIE CAINETA				
	PFA123	IP66 Junction Box				
	PFA137	Junction Box				
Accessories	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				
	PFM800-4K	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM820 (Only 1080P and below are available)	UTC Controller				
	PFM904	Integrated Mount Tester				

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



PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



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



PFM904 Integrated Mount Tester

Installation

Junction Mount	Wa ll Mount	Ceiling Mount
Pole Mount(Vertical)	In-Ceiling Mount	

Dimensions (mm [inch])



