

# DH-HAC-HDBW1500E

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
- 3.6 mm fixed lens (2.8 mm optional)
- 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 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.

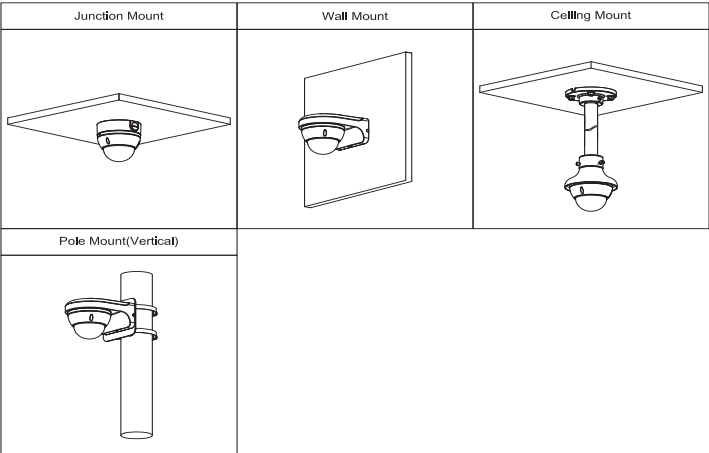
### Protection

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 ±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.

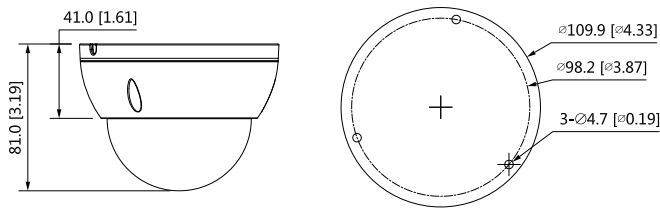
Technical Specification						
Camera						
Image Sensor		1/2.7 inch CMOS				
Max. Resolution		2880 (H) × 1620 (V)				
Pixel		5MP				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s				
S/N Ratio		> 65 dB				
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on				
Illumination Distance		30 m (98.4 ft)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		12				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F1.6				
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)				
Iris Type		Fixed iris				
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0ft)	
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	
	*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.					
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
White Balance		Auto; manual
Gain Control		Auto; manual
Noise Reduction		2D NR
Smart IR		Yes
Mirror		Off/On
Privacy Masking		Off/On (8 areas, rectangle)
Certifications		
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)	
Port		
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Power		
Power Supply	12V ±30% DC	
Power Consumption	Max 3.5W (12V DC, IR on)	
Environment		
Operating Temperature	–40°C to +60°C (–40°F to 140°F); < 95% (non-condensation)	
Storage Temperature	–40°C to +60°C (–40°F to 140°F); < 95% (non-condensation)	
Protection Grade	IP67, IK10	
Structure		
Casing	Plastic dome cover+mental upper casing+mental pedestal	
Camera Dimensions	φ109.9 mm × 81.0 mm ( φ4.33" × 3.19" )	
Net Weight	0.31 kg (0.68 lb)	
Gross Weight	0.45 kg (0.99 lb)	

Ordering Information		
Type	Part Number	Description
5MP Camera	DH-HAC-HDBW1500EP 2.8 mm	5MP HDCVI IR Dome Camera
	DH-HAC-HDBW1500EN 2.8 mm	
	DH-HAC-HDBW1500EP 3.6 mm	
	DH-HAC-HDBW1500EN 3.6 mm	
Accessories	PFA136	Junction Box
	PFB203W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB203W)
	PFA106	Mount Adapter (For use with PFB220C)
	PFB220C	Ceiling Mount Bracket (For use with PFA106)
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFA123	IP66 Junction box
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA136  
Junction Box



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



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



PFA106  
Mount Adapter  
(For use with PFB220C)



PFB220C  
Ceiling Mount Bracket  
(For use with PFA106)



PFM800-4K  
Passive HDCVI Balun



PFM321D  
12V 1A Power Adapter



PFA123  
IP66 Junction box



PFM904  
Integrated Mount Tester