

DH-HAC-HDBW1231EA-A

2MP Starlight HDCVI IR Dome Camera



- Max 30 fps@1080p.
- Starlight, 130 dB true WDR, 3D NR.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- Super Adapt.
- Built-in mic.
- Max. IR length 40m, Smart IR.
- IP67, DC 12 V, IK10.



System Overview

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

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.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Smart Illumination

The camera is designed with IR 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.

Protection (IP67, IK10, wide voltage)

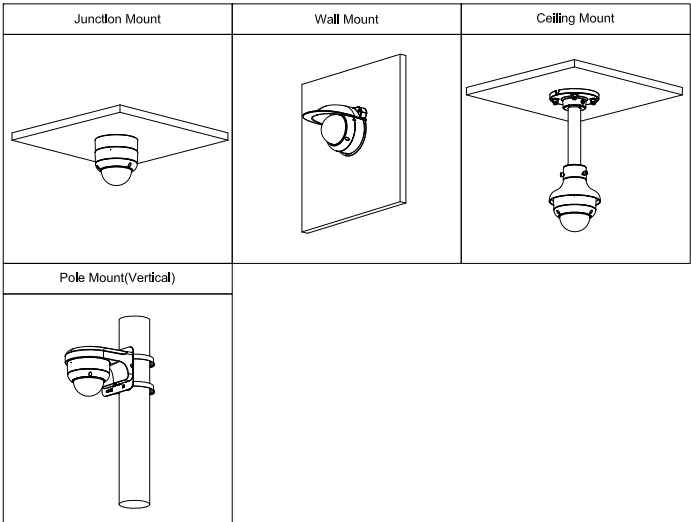
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

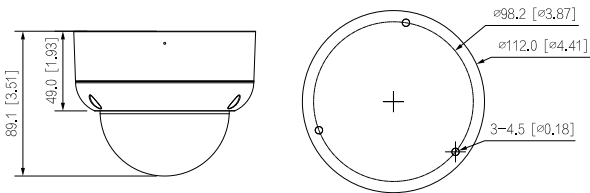
Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Day/Night		Auto switch by ICR	
Camera						BLC		BLC/WDR/HLC	
Image Sensor		1/2.8" CMOS				WDR		130 dB	
Max. Resolution		1920 (H) × 1080 (V)				White Balance		Auto; Area WB	
Pixel		2MP				Gain Control		Auto; manual	
Scanning System		Progressive				Noise Reduction		3D NR	
Electronic Shutter 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. Illumination		0.002 Lux/F1.6, 30 IRE, 0 Lux IR on				Privacy Masking		Off/On (8 area, rectangle)	
Illumination Distance		40 m (131.2 ft)				Certifications			
Illuminator On/Off Control		Auto; manual				Certifications		CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Illuminator Number		3 (IR light)				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	
Audio Input		One channel built-in mic				Power			
Power Supply		12 V ±30% DC				Environment			
Power Consumption		Max 3.07 W (12 V DC, IR on)				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						Φ112.0 mm × 89.1 mm (Φ4.41" × 3.51")			
Net Weight						0.44 Kg (0.97 lb)			
Gross Weight						0.63 Kg (1.39lb)			
Video						Frame Rate			
Frame Rate		CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960 × 576H; NTSC: 960 × 480H				Resolution			
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480)							

Ordering Information		
Type	Model	Description
2M Camera	DH-HAC-HDBW1231EAP-A	2MP Starlight HDCVI IR Dome Camera, PAL
	DH-HAC-HDBW1231EAN-A	2MP Starlight HDCVI IR Dome Camera, NTSC
Accessories (Optional)	PFA136	Junction box
	PFA123	IP66 Junction box
	PFA106	Mount Adapter (For use with PFB220C)
	PFB220C	Ceiling Mount Bracket (For use with PFA106)
	PFB203W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB203 W)
	PFM800-E	Passive HDCVI Balun
	PFM321	12 V 1 A Power Adapter
	PFM820	UTC Controller
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA136
Junction box



PFA123
IP66 Junction box



PFA106
Mount Adapter
(For use with PFB220C)



PFB220C
Ceiling Mount Bracket
(For use with PFA106)



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



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



PFM800-E
Passive HDCVI Balun



PFM321
12V 1A Power Adapter



PFM820
UTC Controller



PFM904
Integrated Mount Tester