

# 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)
- $\cdot$  CVI/CVBS/AHD/TVI switchable
- · Super Adapt
- $\cdot$  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.

# Lite Series | DH-HAC-HDBW1231EA-A

1/2.8" CMOS 1920 (H) × 10			
1920 (H) × 10	aa () ()		
	1920 (H) × 1080 (V)		
2MP			
Progressive			
PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s			
> 65 dB	> 65 dB		
0.002 Lux/F1.	0.002 Lux/F1.6, 30 IRE, 0 Lux IR on		
40 m (131.2 ft)			
Auto; manual			
3 (IR light)			
Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°			
Fixed lens			
M12			
2.8 mm; 3.6 mm			
F1.6			
2.8 mm: H:107°; V:56°;D:127° 3.6 mm: H:86°; V:46°;D:101°			
Fixed iris			
	2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)		
Detect	Observe	Recognize	Identify
43.9 m (144 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)
53.7 m (176.2 ft)	21.5 m (70.5 ft)	10.7 m (35.1 ft)	5.4 m (17.7 ft)
	Progressive   PAL: 1/25 s-1   NTSC: 1/30 s-   > 65 dB   0.002 Lux/F1.   40 m (131.2 ff   Auto; manual   3 (IR light)   Pan: 0°-355°   Tilt: 0°-80°   Rotation: 0°-2   Fixed lens   M12   2.8 mm; 3.6 m   F1.6   2.8 mm: 0.7 m   3.6 mm: 1.1 m   Detect   43.9 m   (144 ft)   53.7 m	Progressive   PAL: 1/25 s-1/100,000 s   NTSC: 1/30 s-1/100,000 s   > 65 dB   0.002 Lux/F1.5, 30 IRE, 0 Lux   40 m (131.2 t)   Auto; manual   3 (IR light)   Pan: 0°-355°   Rotation: 0°-355°   Fixed lens   Fixed lens   F1.6   2.8 mm; 3.5 × U46°;D:101   Fixed iris   2.8 mm: H:U7°; V:56°;D:12   3.6 mm: H:3.5 × U46°;D:101   Fixed iris   2.8 mm: 0.7 × U3 ft)   3.6 mm: 1.1 × (3.6 ft)   Detect Observer   43.9 m 17.5 m   (144 ft) (57.4 ft)   53.7 m 21.5 m	Progressive   PAL: 1/25 s-1/100,000 s   NTSC: 1/30 s-1/100,000 s   NTSC: 1/30 s-1/100,000 s   S<65 dB

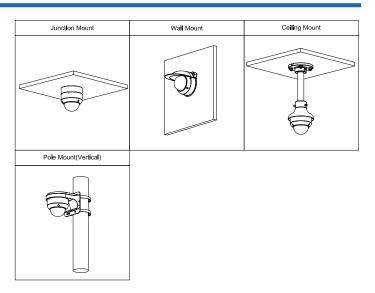
White Balance	Auto; Area WB
Gain Control	Auto; manual
Noise Reduction	3D NR
Smart IR	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port	
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
Power Consumption	Max 3.07 W (12 V 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	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

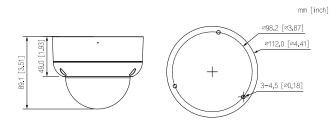
Frame Rate	CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960 × 576H; NTSC: 960 × 480H	
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)	
Day/Night	Auto switch by ICR	
BLC	BLC/WDR/HLC	
WDR	130 dB	

# Lite Series | DH-HAC-HDBW1231EA-A

Ordering Information				
Туре	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)		
	РҒМ800-Е	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

PFB220C

Ceiling Mount Bracket

(For use with PFA106)



PFA106 Mount Adapter (For use with PFB220C)



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



PFM321 12V 1A Power Adapter



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



PFM820 UTC Controller



PFM800-E

Passive HDCVI Balun

PFM904 Integrated Mount Tester

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