

# 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.

## Lite Series | DH-HAC-HDBW1231EA-A

Technical Specification						Day/Night	Auto switch by ICR
Camera						BLC	BLC/WDR/HLC
Image Sensor		1/2.8" CMOS				WDR	130 dB
Max. Resolution	on	1920 (H) × 1080 (V)				White Balance	Auto; Area WB
Pixel		2MP				Gain Control	Auto; manual
Scanning Syste	em	Progressive				Noise Reduction	3D NR
Electronic Shu	tter 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. Illuminat	on	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 3 (IR light)				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 Pan/Tilt/Rotation Range		Pan: 0°–355°				Port	
		Tilt: 0°-75° Rotation: 0°-355°				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens						Audio Input	One channel built-in mic
Lens Type		Fixed lens				Power	
Mount Type		M12				Power Supply	12 V ±30% DC
Focal Length		2.8 mm; 3.6 mm				Power Consumption	Max 3.07 W (12 V DC, IR on)
Max. Aperture		F1.6				Environment	
Field of View		2.8 mm: H:107°; V:56°;D:127° 3.6 mm: H:86°; V:46°;D:101°				Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}); < 95\%$ (non-condensation)
Iris Type		Fixed iris				Storage Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$ ); < 95% (non-condensation)
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)				Protection Grade	IP67, IK10
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Structure	
	2.8 mm	43.9 m (144 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)	Casing	Plastic dome cover+mental upper casing+mental pedestal
	3.6 mm	53.7 m (176.2 ft)	21.5 m (70.5 ft)	10.7 m (35.1 ft)	5.4 m (17.7 ft)	Camera Dimensions	Φ112.0 mm × 89.1 mm (Φ4.41" × 3.51")
	*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/					Net Weight	0.44 Kg (0.97 lb)
						Gross Weight	0.63 Kg ( 1.39lb)

## Video

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
1080p (1920 × 1080); 960H (960 × 576/960 × 480)

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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			
	PFA136	Junction box			
	PFA123	IP66 Junction box			
	PFA106	Mount Adapter (For use with PFB220C)			
	PFB220C	Ceiling Mount Bracket (For use with PFA106)			
Accessories	PFB203W	Wall Mount Bracket (For use alone or with PFA152-E)			
(Optional)	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			

Junction Mount	Wa <b>ll</b> Mount	Ce <b>ili</b> ng Mount
Pole Mount(Vertical)		

ø98.2 [ø3.87] ø112.0 [ø4.41]

3-4.5 [Ø0.18]

## Dimensions (mm[inch])

89.1 [3.51]

## 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

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