

# 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

Video

Frame Rate

Resolution

Day/Night

BLC WDR CVI:

TVI:

PAL: 1080p@25 fps; NTSC: 1080p@30 fps;

PAL: 1080p@25 fps; NTSC: 1080p@30 fps;

PAL: 1080p@25 fps; NTSC: 1080p@30 fps;

PAL: 960 × 576H; NTSC: 960 × 480H

Auto switch by ICR
BLC/WDR/HLC

130 dB

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

Technical Specification						White Balance	Auto; Area WB
Camera						Gain Control	Auto; manual
Image Sensor		1/2.8" CMOS				Noise Reduction	3D NR
Max. Resolution		1920 (H) × 1080 (V)				Smart IR	Yes
Pixel		2MP				Mirror	Off/On
Scanning System		Progressive				Privacy Masking	Off/On (8 area, rectangle)
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Certifications	
S/N Ratio		> 65 dB				Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Min. Illumination		0.002 Lux/F1.6, 30 IRE, 0 Lux IR on					UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Illumination Distance		40 m (131.2 ft)				Port	
Illuminator On/Off Control		Auto; manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		3 (IR light)				Audio Input	One channel built-in mic
Pan/Tilt/Rotation Range		Pan: 0°-355°				Power	
		Tilt: 0°–80° Rotation: 0°–355°				Power Supply	12 V ±30% DC
Lens				Power Consumption	Max 3.07 W (12 V DC, IR on)		
Lens Type		Fixed lens				Environment	
Mount Type		M12				Operating Temperature	$-40^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$ ); < 95% (non-condensation)
Focal Length  Max. Aperture		2.8 mm; 3.6 mm F1.6				Storage Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$ ); < 95% (non-condensation)
·		2.8 mm: H:107°; V:56°;D:127°				Protection Grade	IP67, IK10
Field of View		3.6 mm: H:86°; V:46°;D:101°				Structure	
Iris Type		Fixed iris				Casing	Plastic dome cover+mental upper casing+mental
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)				Camera Dimensions	pedestal Φ112.0 mm × 89.1 mm (Φ4.41" × 3.51")
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	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)	Net Weight  Gross Weight	0.44 Kg (0.97 lb) 0.63 Kg (1.39lb)
	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)		

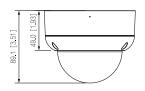
# Lite Series | DH-HAC-HDBW1231EA-A

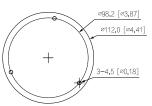
Ordering Information							
Туре	Model	Description					
2M Camera	DH-HAC- HDBW1231EAP-A	2MP Starlight HDCVI IR Dome Camera, PAL					
	DH-HAC- HDBW1231EAN-A	2MP Starlight HDCVI IR Dome Camera, NTSC					
	PFA136	Junction box					
	PFA123	IP66 Junction box					
	PFA106	Mount Adapter (For use with PFB220C)					
	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					

Localita Manus	W. H. A.	Ce <b>ili</b> ng Mount
Junction Mount	Wa <b>ll</b> Mount	Ceiling Mount
Pole Mount(Vertical)		I

# Dimensions (mm[inch])

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