

DH-HAC-HDBW1231RA-Z-A 2MP Starlight HDCVI IR Dome Camera



System Overview

Lite Series is suitable for users who requires high quality monitoring products at areasonable 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.

* Audio input is available for some models of HDCVI cameras.

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.

- · Max. 30 fps@1080P
- · Starlight, 130dB true WDR, 3D NR
- · Auto focus, 2.7 mm-12 mm motorized lens
- · CVI/CVBS/AHD/TVI switchable
- Super Adapt
- \cdot Built-in mic
- · Max. IR length 60 m, Smart IR
- · IP67, IK10, 12V DC



Advanced 3D NR

3D NR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3D NR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3D NR 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 comes 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 mins.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camera						
Pixel		2MP				
Image Sensor		1/2.8"CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				
Min. Illumination		0.002lux/F1.5, 30IRE, 0Lux IR on				
S/N Ratio		> 65 dB				
Illumination Distance		60 m (196.9 ft)				
Illuminator On/Off Control		Auto				
Illuminator Number		3 (IR light)				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Auto Focus		Yes				
Lens Mount		ф14				
Focal Length		2.7 mm–12 mm				
Max. Aperture		F1.5				
Field of View		Diagonal: 38°– 123° Horizontal: 33°–102° Vertical: 19°–53°				
Iris Control		Fixed				
Close Focus Distance		0.5m (1.6ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.7 mm	47.6 m (156.2 ft)	19.0 m (62.3 ft)	9.5 m (31.2 ft)	76 m (15.6 ft)	
	12 mm	132.1 m (433.4 ft)	52.9 m (173.6 ft)	26.4 m (86.6 ft)	3.2 m (43.3 ft)	
Video						

Auto/Area WB					
Auto/Manual					
3D NR					
Yes					
Yes					
Off/On (8 areas, rectangle)					
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)					
Video output choices of CVI/TVI/AHD/CVBS by one BNC port					
One channel built-in mic					
12V DC±30%					
Max. 8W (12V DC, IR on)					
–30°C to +60°C (–22°F to +140°F); < 95% (non- condensation)					
-30°C to +60°C (-22°F to +140°F);< 95% (non- condensation)					
IP67; IK10					
Structure					
Metal throughout the whole casing					
φ126 mm × 100 mm (φ5" × 3.9")					
0.63 kg (1.4 lb)					
0.81 kg (1.8 lb)					

Video

P N Al P Video Frame Rate T P P N C C P P P P P P P	VI: AL: 1080P@25fps; TSC: 1080P@30fps; HD: AL: 1080P@25fps; TSC: 1080P@30fps; VI: AL: 1080P@25fps; TSC: 1080P@30fps; VBS: AL: 960×576H; TSC: 960×480H;		
Resolution	1080P (1920 × 1080); 960H (960 × 576/960 × 480)		
Day/Night Ai	Auto (ICR)		
BLC BI	BLC/WDR/HLC		
WDR 13	30 dB		

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Ordering Information		Junction Mount	Wa ll Mount	Ceiling Mount	
Туре	Part Number	Description			
2M Camera	DH-HAC- HDBW1231RAP-Z-A 2.7-12mm	2MP Starlight HDCVI IR Dome Camera, PAL			
	DH-HAC- HDBW1231RAN-Z-A 2.7-12mm	2MP Starlight HDCVI IR Dome Camera, NTSC			
Accessories	PFA123	IP66 Junction Box			
	PFA137	Junction Box	Pole Mount(Vertical)		
	PFB203W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFB220C	Ceiling Mount Bracket			
	PFA106	Mount Adapter			
	PFM800-E	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter	Dimensions (mm[in	ch])	
	PFM820	UTC Controller			
	PFM904	Integrated Mount Tester			

Accessories

Optional:



PFA123 IP66 Junction Box

PFA137 Junction Box

PFB220C

Ceiling Mount Bracket



PFB203W Wall Mount Bracket

PFA106



PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun

PFM904 Integrated Mount Tester

Rev 001.001





PFM321D

PFM820 UTC Controller



