

DH-HAC-B229-LED-(A)

2MP Full-color HDCVI Bullet Camera



System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

Functions

Full-color

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 color monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

Smart Warm Light Illumination

In dark environments, the camera produces vivid images in rich color through its warm LED lights. With its smart light mode setting, it automatically adjusts its exposure time and light sensitivity to avoid the overexposure of objects in the center of the image.

- Max. 30 fps@1080p.
- 24/7 color imaging.
- 20 m illumination distance.
- Super Adapt.
- Built-in MIC (-A).
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. **Wide voltage:** The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

4 Signals over 1 Coaxial Cable

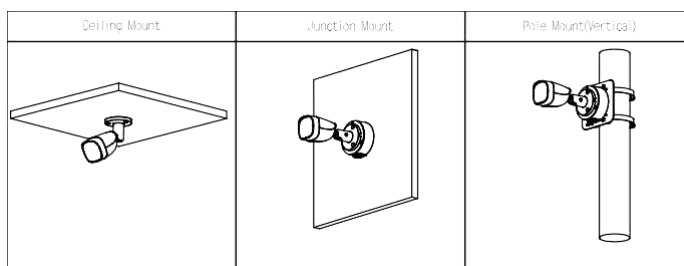
HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

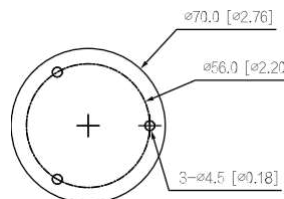
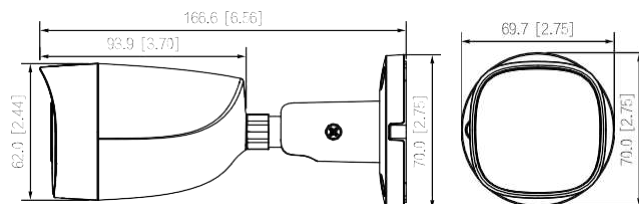
Technical Specification						Privacy Masking	Off/On (8 areas, rectangle)
Camera						Certification	
Pixel		2 MP				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035 FCC: 47 CFR FCC Part 15, Subpart B
Image Sensor		2 MP CMOS					
Max. Resolution		1920 (H) × 1080 (V)					
Scanning System		Progressive					
Electronic Shutter Speed		PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s				Port	
Min. Illumination		0.005 lux@F1.6 (Color) 0 lux (Illuminator on)				Video Output	
S/N Ratio		>65 dB				Audio Input	
Illumination Distance		20 m (65.62 ft)				Power	
Illuminator On/Off Control		Auto/Manual				Power Supply	
Illuminator Number		1 (Warm light)				Power Consumption	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Environment	
Lens						Operating Temperature	
Lens Type		Fixed-focal				Operating Humidity	
Lens Mount		M12				Storage Temperature	
Focal Length		2.8 mm; 3.6 mm				Protection	
Max. Aperture		F1.6				Structure	
Field of View		2.8 mm: H: 108°; V: 58°; D: 127° 3.6 mm: H: 84°; V: 43°; D: 102°				Casing Material	
Iris Control		Fixed				Product Dimensions	
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)				Packaging Dimensions	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	
	2.8 mm	42.2 m (138.45 ft)	16.9 m (55.45 ft)	8.4 m (27.56 ft)	4.2 m (13.78 ft)	Gross Weight	
	3.6 mm	59.0 m (193.57 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)	Installation	
Video						Wall mount; ceiling mount; vertical pole mount	
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: 960H; NTSC: 960H					
Resolution		1080P (1920 × 1080); 960H (960 × 576/960 × 480)					
Day/Night		Color					
BLC		BLC; HLC; DWDR					
WDR		DWDR					
White Balance		Auto; Area white balance					
Gain Control		Auto					
Noise Reduction		3D NR					
Illumination Mode		Smart Light					
Mirror		Yes					

Ordering Information

Type	Part Number	Description
Accessories (Optional)	PFA134	Junction Box
	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
	PFM800-E	1 Channel Passive HDCVI Balun
Accessories (Optional)	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA134
Junction
Box



PFA130-E
Water-proof
Junction Box



PFA152-E
Pole Mount
Bracket



PFM800-E
1 Channel Passive
HDCVI Balun



PFM321D
12V 1A Power
Adapter



PFM904
Integrated Mount
Tester