

# 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 ±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.

# Cooper Series | DH-HAC-B229-LED-(A)

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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
Image Sensor		2 MP CMOS					Certifications	FCC: 47 CFR FCC Part 15, Subpart B
Max. Resolution		1920 (H) × 1080 (V)					Port	
Scanning System		Progressive					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BN port
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Audio Input	One channel built-in MIC (-A)
Min. Illumination		0.005 lux@F1.6 (Color) 0 lux (Illuminator on)					Power	
S/N Ratio		>65 dB					Power Supply	12 VDC ± 30%
Illumination Distance		20 m (65.62 ft)					Power Consumption	Max 3.3 W (12 V DC, LED on)
Illuminator On/Off Control		Auto/Manual					Environment	
Illuminator Number		1 (Warm light)					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		Pan: 0°-360°					Operating Humidity	<95% (RH), non-condensing
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens							Protection	IP67
Lens Type		Fixed-focal					Structure	
Lens Mount		M12					Casing Material	Metal
Focal Length		2.8 mm; 3.6 mm					Product Dimensions	166.6 mm × 69.7 mm × 70.0 mm (6.56" × 2.75" × 2.7
Max. Aperture		F1.6					Packaging Dimensions	182mm × 90 mm × 77 mm (7.17" × 3.54" × 3.03")
Field of View		2.8 mm: H: 108°; V: 58°; D: 127° 3.6 mm: H: 84°; V: 43°; D: 102°					Net Weight	0.32 kg (0.71 lb)
Iris Control		Fixed					Gross Weight	0.42 kg (0.93 lb)
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)					Installation	Wall mount; ceiling mount; vertical pole mount
	Lens	Detect	Observe	Recognize	Identify			
DORI Distance	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)			

## Video

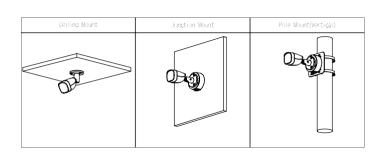
3.6 mm

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			

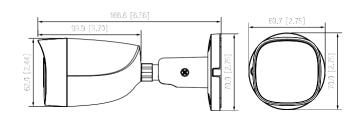
59.0 m 23.6 m 11.8 m 5.9 m (193.57 ft) (77.43 ft) (38.71 ft) (19.36 ft)

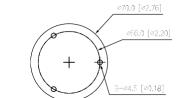
# Cooper Series | DH-HAC-B229-LED-(A)

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



# 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