

# 2 MP HDCVI Fixed Mini Bullet Camera

## HDCVI



- 1/2.9-in. Progressive-scan CMOS Sensor
- 1080p at 30 fps Maximum Resolution
- HD and SD Output, Switchable
- Supports HDCVI, TVI, AHD, and CVBS Video Output Formats
- 2.8 mm Fixed Lens
- IP67 Ingress Protection
- Five-year Warranty\*



### System Overview

Experience the superior clarity of Full HD 1080p video while leveraging your existing coaxial infrastructure. The camera features a compact design and offers a high-quality image. The camera offers a multi-language on-screen display and HD and SD dual-output. The outstanding performance and low price make the camera an ideal choice for small businesses that value surveillance.

### Functions

### Three Signals over a Single Coaxial Cable

HDCVI technology simultaneously transmits three signals (video, power, and data) over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. HDCVI along with PoC technology delivers power<sup>1</sup> to devices at the edge, simplifying installation.

### Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

### Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

### Multi-format Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or via a UTC controller (PFM820), making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs.

### Multi-language OSD

The OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detection and offers Chinese, English, French, German, Spanish, Italian, Japanese, Korean, Russian, Polish, and Portuguese variations.

### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor environments.

With a working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting  $\pm$ 25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

1. Requires PoC Transceivers for each channel and an external power supply for each transceiver.

### Lite Series | DH-HAC-HUM1220GN-B

### **Technical Specification**

### Camera

Image Sensor	1/2.9-in. CMOS Sensor
Effective Pixels	1920(H) x 1080(V), 2 MP
Scanning System	Progressive
Electronic Shutter Speed	1/30 s to 1/100,000 s
Minimum Illumination	Color: 0.02 lux at F2.0 B/W: 0.002 lux at F.20
S/N Ratio	More than 65 dB
Lens	
Lens Type	Fixed Lens / Fixed Iris
Mount Type	Board-in
Focal Length	2.8 mm
Maximum Aperture	F2.0
Horizontal Angle of View	109.40°
Close Focus Distance	500 mm (19.69 in.)

### DORI Distance<sup>2</sup>

Detect	Observe	Recognize	<b>Identify</b>
(8 ppf)	(19 ppf)	(38 ppf)	(76 ppf)
40 m (131 ft)	16 m (52 ft)	8 m (28 ft)	4 m (13 ft)

#### Video

Resolution	1080p (1920 × 1080)	
Frame Rate	1080p at 30 fps 720p at 60 fps	
Video Output	One (1) BNC HDCVI High-definition Channel, or One (1) BNC CVBS Channel, switchable	
Video Transmission <sup>3</sup>	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)
	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft)
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)
Day/Night	Auto (electronic), Manual	
OSD Menu	Multi-language	
BLC Mode	BLC, HLC, DWDR	
WDR	Digital WDR	
Gain Control	AGC	
Noise Reduction	2D	
White Balance	Auto, Manual	

### Certifications

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Safety	No UL Certification			
Electromagnetic Compatibility (EMC)	EN 55032 FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014			
Immunity	EN 50130-4 EN 55024			
Electrical				
Power Supply	12 VDC ± 25%			
Power Consumption	Maximum 0.6 W			
Environmental				
Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)			
Storage Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH			
Ingress Protection	IP67			
Construction				
Casing	Aluminium			
Dimensions	110.10 mm x 50.0 mm x 47.40 mm (4.33 in. x 1.97 in. x 1.87 in.)			
Net Weight	0.10 kg (0.22 lb)			
Gross Weight	0.15 kg (0.33 lb)			

- The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.
- Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

### Lite Series | DH-HAC-HUM1220GN-B

### **Ordering Information**

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Туре	Part Number	Description
2 MP Camera	DH-HAC-HUM1220GN-B	2 MP HDCVI Bullet Camera, 2.8 mm
Accessories, Optional	DH-PFM321D-US	12 VDC, 1 A Power Adapter
	PFM800-E	Passive HDCVI Balun
	DH-PFM800-4K	4K Passive HDCVI Balun
	PFM810	POC Transceiver
	PFM820	UTC Controller

### Accessories

Optional:









PFM810

POC Transceiver



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Passive HDCVI Balun

PFM820

UTC Controller



### **Dimensions (mm/inch)**





