

# 2 MP HDCVI Fixed Mini Bullet Camera



- 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 flush-mount installation for concealed monitoring. 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 ±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.

Requires a PoC Transceiver for each channel and an external 24 VDC power supply for each transceiver. Note that the On-screen Display menu does not operate with the PFM810 Transceiver connected to the camera.

# Lite Series | DH-HAC-HUM1220GN

# **Technical Specification**

1/2.9-in. CMOS Sensor
1920(H) x 1080(V), 2 MP
Progressive
1/30 s to 1/100,000 s
Color: 0.02 lux at F2.0 B/W: 0.002 lux at F.20
More than 65 dB
Fixed Lens / Fixed Iris
Board-in
2.8 mm
F2.0
109.40°
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 × 10	80)
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

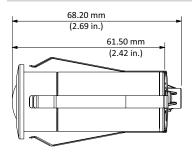
No UL Certification				
EN 55032 FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014				
EN 50130-4 EN 55024				
12 VDC ± 25%				
Maximum 0.6 W				
Environmental				
-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)				
–40° C to +60° C (–40° F to +140° F), Less than 95% RH				
IP67				
Construction				
Aluminium				
ø30.0 mm x 68.20 mm (ø1.18 in. x 2.69 in.)				
0.07 kg (0.15 lb)				
0.11 kg (0.24 lb)				

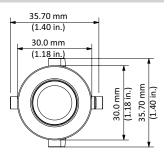
- 2. The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, 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

Ordering Information					
Туре	Part Number	Description			
2 MP Camera	DH-HAC-HUM1220GN	2 MP HDCVI Mini 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			

# **Dimensions (mm/inch)**





## Accessories

Optional:





DH-PFM321D-US Power Adapter



Passive HDCVI Balun



DH-PFM800-4K 4K Passive HDCVI Balun



PFM810 POC Transceiver



UTC Controller

