

# DH-HAC-HUM1220G

2MP HDCVI Bullet Camera

# HDCVI



- · Max 30fps@1080P
- · HD and SD output switchable
- · 2.8mm fixed lens (2.1mm, 3.6mm optional)
- · IP67, DC12V











#### **System Overview**

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series micro-sized bullet features a micro design and high quality image at a friendly price. It supports flush installation to minimize its impact on operations and creates friendly environments. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for concealed monitoring solutions.

### **Functions**

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio\*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

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

#### **Long Distance Transmission**

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 800m(1080P)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable \*

\*Actual results verified by real-scene testing in Dahua's test laboratory.

#### **Simplicity**

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

#### Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

### Multi-language OSD

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 detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

#### **Protection**

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

With 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.

#### **Elaborate Design**

For better adapting invisible monitoring applications, the camera is designed with metal clips for flush mounting, which minimizes the interference against on-going activities. Taking aesthetics requirements into consideration, the camera is all-black.

# Lite Series | DH-HAC-HUM1220G

Technical Specification		
Camera		
Image Sensor	1/2.9" CMOS	
Effective Pixels	1920(H)×1080(V), 2MP	
Scanning System	Progressive	
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	
Minimum Illumination	0.02Lux/F2.0 (Color), 0.002Lux/F2.0 (B/W)	
S/N Ratio	More than 65dB	
IR Distance	N/A	
IR On/Off Control	N/A	
IR LEDs	N/A	
Lens		
Lens Type	Fixed lens / Fixed iris	
Mount Type	Board-in	
Focal Length	2.8mm (2.1mm, 3.6mm Optional)	
Max Aperture	F2.0	
Angle of View	H: 109.4° (117.8°/92°)	
Focus Control	N/A	
Close Focus Distance	500mm (400mm/800mm) 19.69" (15.75"/31.50")	

#### **DORI Distance**

Video Resolution

Frame Rate

Video Output

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance		
Detect	25px/m (8px/ft)	2.1mm: 34m(113ft) 2.8mm: 40m(131ft) 3.6mm: 51m(169ft)		
Observe	63px/m (19px/ft)	2.1mm: 14m(45ft) 2.8mm: 16m(52ft) 3.6mm: 21m(68ft)		
Recognize	125px/m (38px/ft)	2.1mm: 7m(23ft) 2.8mm: 8m(28ft) 3.6mm: 10m(34ft)		
Identify	250ppm (76px/ft)	2.1mm: 3m(11ft) 2.8mm: 4m(13ft) 3.6mm: 5m(17ft)		
Pan / Tilt / Rotation				
Pan/Tilt/Rotation	N/A			

1080P (1920×1080)

video output (Can switch)

25/30fps@1080P, 25/30/50/60fps@720P

1-channel BNC high definition video output / CVBS

Day/Night	Auto (Electronic) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	N/A
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Interface	
Audio Interface	N/A
Eelectrical	
Power Supply	12V DC ±25%
Power Consumption	Max 0.6W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection &Vandal Resistance	IP67
Construction	
Casing	Aluminium

Ф30mm×68.2mm (Ф1.18"×2.69")

0.07kg (0.15lb)

0.11kg (0.24lb)

# www.dahuasecurity.com

Dimensions

Net Weight

Gross Weight

# Lite Series | DH-HAC-HUM1220G

Ordering Information			
Туре	Part Number	Description	
2MP Camera	DH-HAC-HUM1220GP 2.1mm	2MP HDCVI Bullet Camera, PAL	
	DH-HAC-HUM1220GP 2.8mm		
	DH-HAC-HUM1220GP 3.6mm		
	DH-HAC-HUM1220GN 2.1mm	2MP HDCVI Bullet Camera, NTSC	
	DH-HAC-HUM1220GN 2.8mm		
	DH-HAC-HUM1220GN 3.6mm		
Accessories	PFM820	UTC Controller	
	PFM800-E	Passive HDCVI Balun	
	PFM800-4MP	Passive HDCVI Balun	
	PFM801-4MP	Passive HDCVI Balun With Power	
	PFM321	12V 1A Power Adapter	
	PFM320D-015	12V 1.5A Power Adapter	

### Accessories

## Optional:



PFM820 UTC Controller



Passive HDCVI Balun With Power



PFM800-E Passive HDCVI Balun



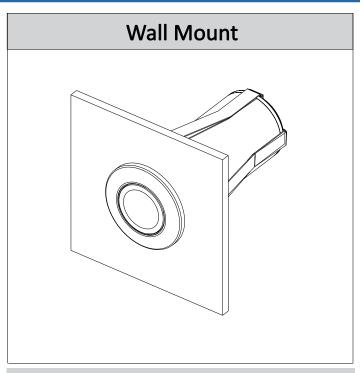
Adapter



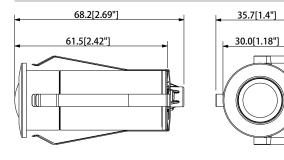
PFM800-4MP Passive HDCVI Balun



PFM320D-015 Power Adapter



# Dimensions (mm)





35.7[1.4"] 30.0[1.18"]