

# DH-HAC-HFW1220D 2MP HDCVI IR Bullet Camera

# HDCVI



- · Max 30fps@1080P
- $\cdot$  HD and SD output switchable
- · 3.6mm fixed lens (6mm, 8mm optional)
- · Max. IR length 80m, Smart IR
- · IP67, DC12V



#### System Overview

Experience full HD 1080P/ HD 720P video with the simplicity of using existing cabling infrastructure. The Lite series features compact design and high quality image at friendly price. It offers various vari-focal/fixed lens models with multi-language OSD and HD/SD switchable output. The structure flexibility and best cost-performance makes lite series camera an ideal choice for SMB 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.

#### Smart IR

The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

#### **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.

# Lite Series | DH-HAC-HFW1220D

## **Technical Specification**

### Camera

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, 0Lux IR on	
S/N Ratio	More than 65dB	
IR Distance	Up to 80m (262feet)	
IR On/Off Control	Auto / Manual	
IR LEDs	2	
Lens		
Lens Type	Fixed lens / Fixed iris	
Mount Type	Board-in	
Focal Length	3.6mm (6mm, 8mm Optional)	
Max Aperture	F2.0	
Angle of View	H: 82.8° (51.2°/35.1°)	
Focus Control	N/A	
Close Focus Distance	800mm (1900mm/3100mm) 31.5" ( 74.8"/122.0")	
Pan / Tilt / Rotation		
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 87° Rotation: 0° ~ 360°	
Video		
Resolution	1080P (1920×1080)	
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P	
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)	
Day/Night	Auto (ICR) / Manual	
OSD Menu	Multi-language	
BLC Mode	BLC / HLC / DWDR	
WDR	DWDR	
Gain Control	AGC	
Noise Reduction	2D	

Auto / Manual

Auto / Manual

White Balance

Smart IR

Certifications				
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)			
Interface				
Audio Interface	N/A			
Eelectrical				
Power Supply	12V DC ±25%			
Power Consumption	Max 4.5W (12V DC, IR on)			
Environmental				
Operating Conditions	-40°C $^{\rm \sim}$ +60°C (-40°F $^{\rm \sim}$ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)			
Storage Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH			
Ingress Protection &Vandal Resistance	IP67			
Construction				
Casing	Aluminium			
Dimensions	241.8mm×90.4mm×90.4mm (9.52"×3.56"×3.56")			
Net Weight	0.64kg (1.41lb)			
Gross Weight	0.77kg (1.69lb)			

# Lite Series | DH-HAC-HFW1220D

Ordering Information			Dimer
Туре	Part Number	Description	
2MP Camera	DH-HAC-HFW1220DP 3.6mm		-
	DH-HAC-HFW1220DP 6mm	2MP HDCVI IR Bullet Camera, PAL	
	DH-HAC-HFW1220DP 8mm		
	DH-HAC-HFW1220DN 3.6mm		
	DH-HAC-HFW1220DN 6mm	2MP HDCVI IR Bullet Camera, NTSC	
	DH-HAC-HFW1220DN 8mm		
Accessories	PFA135	Junction box (For use alone or with PFA150 pole mount)	
	PFA150	Pole mount (For use with PFA135 junction box)	
	PFM820	UTC Controller	

### Accessories

Optional:



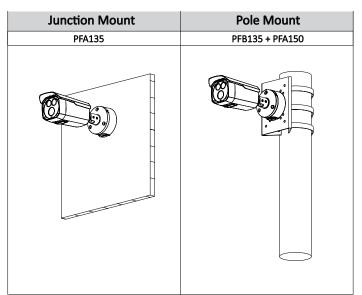
PFA135



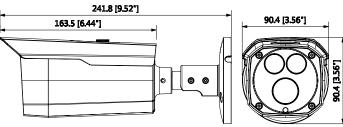


Junction box

Pole mount



## Dimensions (mm/inch)





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