

DH-HAC-HFW1220D

2MP HDCVI IR Bullet Camera

HDCVI



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













System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various vari-focal/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 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

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, 30IRE, 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	Fixed lens / Fixed iris		
Mount Type	Board-in	Board-in		
Focal Length	3.6mm (6mm, 8mm Optio	3.6mm (6mm, 8mm Optional)		
Max Aperture	F2.0			
Angle of View	H: 80.8° (51°/35.1°)			
Focus Control	N/A	N/A		
Close Focus Distance	800mm (1900mm/3100mm) 31.5" (74.8"/122.0")			
DORI Distance				
Note: The DORI distance is a "gene pinpoint the right camera for your sensor specification and lab test re- criteria for Detect, Observe, Recogn	needs. The DORI distance is sult according to EN 62676-	calculated based on 4 which defines the		
	DORI Definition	Distance		
3 6mm· 57m(187ft)				

	Definition	Distance
Detect	25px/m (8px/ft)	3.6mm: 57m(187ft) 6mm: 86m(281ft) 8mm:114m(375ft)
Observe	63px/m (19px/ft)	3.6mm: 23m(75ft) 6mm:34m(113ft) 8mm:46m(150ft)
Recognize	125px/m (38px/ft)	3.6mm: 11m(37ft) 6mm: 17m(56ft) 8mm:23m(75ft)
Identify	250ppm (76px/ft)	3.6mm: 6m(19ft) 6mm: 9m(28ft) 8mm:11m(37ft)

Pan / Tilt / Rotation

	Pan: 0° ~ 360°
Pan/Tilt/Rotation	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
White Balance	Auto / Manual
Smart IR	Auto / Manual
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 $^{\sim}$ +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
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)

Ordering Information					
Туре	Part Number	Description			
	DH-HAC-HFW1220DP 3.6mm				
	DH-HAC-HFW1220DP 6mm	2MP HDCVI IR Bullet Camera, PAL			
2MP Camera	DH-HAC-HFW1220DP 8mm				
Zivir Caillela	DH-HAC-HFW1220DN 3.6mm				
	DH-HAC-HFW1220DN 6mm	2MP HDCVI IR Bullet Camera, NTSC			
	DH-HAC-HFW1220DN 8mm				
	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)			
	PFA152-E	Pole mount (For use with PFA130-E junction box)			
	PFM820	UTC Controller			
Accessories	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			

cc				

Optional:



PFA130-E Junction box



PFA152-E Pole mount



PFM820 UTC Controller



PFM800-E Passive HDCVI Balun



PFM800-4MP Passive HDCVI Balun



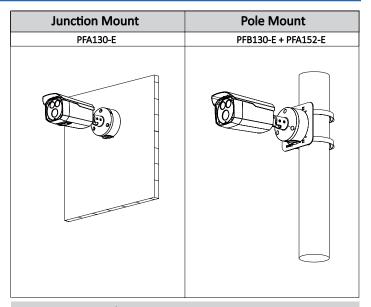
PFM801-4MP Passive HDCVI Balun With Power



12V 1A Power Adapter



PFM320D-015 Power Adapter



Dimensions (mm/inch)

