

DH-HAC-HFW1200F(-A)

2MP HDCVI IR Bullet Camera



- Max 30fps@1080P
- HD and SD output switchable
- 3.6mm fixed lens (2.8mm, 6mm optional)
- Built-in mic(-A)
- Max. IR length 30m, SmartIR
- 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 motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance make 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. Dualway data transmission allows the HDCVI camera to interact with the XVR, 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 realtime 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.*

*This function is available for select models

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 IR LED 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 most end users' existing HD/SDDVRs.

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 ±30% 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.

Technical Specification						Gain Control		Auto; manual	
Camera						Noise Reduction		2D NR	
Image Sensor		1/2.7 inch CMOS				Smart IR		Yes	
Effective Pixels		1920(H)×1080(V), 2MP				Electronic Defog		Yes	
Scanning System		Progressive				Mirror		Off/On	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Privacy Masking		Off/On (8 area, rectangle)	
S/N Ratio		>65dB				Certifications			
Minimum Illumination		0.02Lux/F1.9, 30IRE, 0Lux IR on				Certifications		CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.42014) UL (UL60950-1+CAN/CSA C22.2 No.609501)	
Fill Light Working Distance		30 m (98.4 ft)				Port			
IR On/Off Control		Auto; manual				Audio Output		One channel builtin mic (-A)	
IR LED Number		1				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Power			
Lens						Power Supply		12V ±30% DC	
Lens Type		Fixed-focal				Power Consumption		Max 3.3W (12V DC, IR on)	
Mount Type		M12				Environment			
Focal Length		2.8 mm; 3.6 mm; 6 mm				Operating Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)	
Max. Aperture		F1.9				Storage Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)	
Field of View		2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical) 6 mm: 60° x 56° x 30° (diagonal x horizontal x vertical)				Protection Grade		IP67	
Iris Type		Fixed iris				Structure			
Close Focus Distance		2.8 mm: 0.5 m (1.7 ft) 3.6 mm: 0.8 m (2.6 ft) 6 mm: 2 m (6.6 ft)				Casing		Mental throughout the whole casing	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions		174.5 mm×72.3 mm×70.6 mm (6.87" ×2.85" ×2.78")	
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)	Net Weight		0.36 Kg (0.79 lb)	
	3.6 mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5 m (16.4 ft)	Gross Weight		0.46 Kg (1.01 lb)	
	6 mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)				
Video									
Frame Rate		CVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; AHD: 1080P@25/30fps; 720P@25/30fps; TVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; CVBS: 960H							
Resolution		1080P (1920×1080); 720P (1280×720); 960H (960×576/960×480)							
Day/Night		Auto switch by ICR							
BLC		BLC/HLC/DWDR							
WDR		DWDR							
White Balance		Auto; manual							

Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HFW1200FP 2.8mm	2MP HDCVI IR Bullet Camera
	DH-HAC-HFW1200FN 2.8mm	
	DH-HAC-HFW1200FP 3.6mm	
	DH-HAC-HFW1200FN 3.6mm	
	DH-HAC-HFW1200FP 6mm	
	DH-HAC-HFW1200FN 6mm	
	DH-HAC HFW1200FP-A 2.8mm	
	DH-HAC HFW1200FN-A 2.8mm	
	DH-HAC HFW1200FP-A 3.6mm	
	DH-HAC HFW1200FN-A 3.6mm	
Accessories	DH-HAC HFW1200FP-A 6mm	
	DH-HAC HFW1200FN-A 6mm	
	PFA134	Junction Box
	PFA130-E	IP66 Junction Box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole Mount Bracket (For use with PFA130E junction box)
	PFM800-E	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM820	UTC Controller
	PFM904	Integrated Mount Tester

Accessories

Optional:



PFA134
Junctionbox



PFA130-E
IP66 Junction Box (For use
alone or with PFA152E
pole mount)



PFA152-E
Pole Mount Bracket
(For use with PFA130E
junction box)



PFM800-E
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM820
UTC Controller



PFM904
Integrated Mount Tester

Wall Mount 1	Wall Mount 2	Pole Mount
1.1.1.1.1	1.1.1.1.1	1.1.1.1.1

Dimensions (mm[inch])

