dahua TECHNOLOGY

DH-HAC-HFW1200TH-I4

2MP HDCVI IR Bullet Camera

· Max 30fps@1080P

· HD and SD output switchable

· 3.6mm fixed lens (2.8mm, 6mm optional)

· Max. IR length 40m, Smart IR

· IP67, DC12V

Lite Series | 1080p FULL HD | 40m IR | IP67 | DC 12V | Temperature

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 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 microcrystalline 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.

Multiple-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/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 ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides pro-tection against the camera and its structure from the effects of lightning.

Technical Specification

Camera

Image Sensor	1/2.7 inch CMOS
Effective Pixels	1920 (H) × 1080 (V), 2MP
Electronic Shutter Speed	PAL:1/25s–1/100000s NTSC:1/30s–1/100000s
Minimum Illumination	0.02Lux/F1.85, 30IRE, 0Lux IR on
IR Distance	Distance up to 40 m (131.23 ft)
IR On/Off Control	Auto; manual
IR LEDs Number	1
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm; 3.6 mm; 6 mm
Max. Aperture	F1.85/F2.0/F2.0
Angle of View	2.8 mm: 118° × 103° × 59° (diagonal × horizontal × vertical) 3.6 mm: 103.8° × 87.5° × 47° (diagonal × horizontal × vertical) 6 mm: 62.4° × 54.7° × 31.3° (diagonal × horizontal × vertical)
Iris Type	Fixed iris
Min Photographic Distance	0.5 m/0.9 m/2.0 m (1.64 ft/2.95 ft/6.56 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	37.3 m (122.37 ft)	14.9 m (48.88 ft)	7.5 m (24.60 ft)	3.7 m (12.13 ft)
	3.6mm	53.3 m (174.86 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)	5.3 m (17.38 ft)
	6 mm	80 m (262.46 ft)	32 m (104.98 ft)	16 m (52.49 ft)	8 m (26.24 ft)

Video

Video Frame Rate	CVI: 1080P@25fps/30fps; 720P@25fps/30fps; 720@50fps/60fps; AHD: 1080P@25fps/30fps; 720P@25fps/30fps; TVI: 1080P@25fps/30fps; 720P@25fps/30fps; 720@50fps/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
Gain Control	Auto; manual
Noise Reduction	2D NR

Smart IR	Yes
Electronic Defog	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)

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)

Port

Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port

Power

Power Supply	12V±30% DC
Power Consumption	Max 3.3W (12V DC, IR on)

Environment

Operating Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Storage Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Protection Grade	IP67

Structure

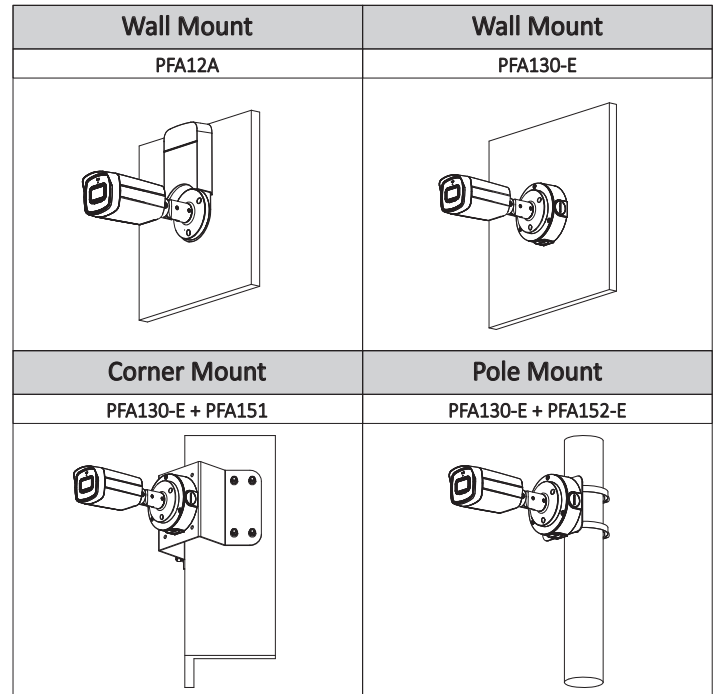|	
Casing	Metal front face + plastic main body + metal bracket
Dimensions	240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56")
Net Weight	410 g (0.90 lb)
Gross Weight	616 g (1.36 lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HFW1200THP-I4 2.8mm	2MP HDCVI IR Bullet Camera, PAL
	DH-HAC-HFW1200THP-I4 3.6mm	
	DH-HAC-HFW1200THP-I4 6mm	
	DH-HAC-HFW1200THN-I4 2.8mm	2MP HDCVI IR Bullet Camera, NTSC
	DH-HAC-HFW1200THN-I4 3.6mm	
	DH-HAC-HFW1200THN-I4 6mm	
Accessories	PFA130-E	Water-proof junction box (ceiling mount)
	PFA130-E + PFA152-E	Water-proof wall mount bracket + pole mount bracket (pole mount)
	PFA130-E + PFA151	Water-proof wall mount bracket+corner bracket (corner mount)
	PFA12A	Plastic junction box
	DH-PFM320D-015	12V 1.5A DC power adapter
	DH-PFM321-EN	12V 1A DC power adapter (for european countries)
	DH-PFM321-BS	12V 1A DC power adapter (for UK)
	DH-PFM321-US	12V 1A DC power adapter (for US)
	PFM820	UTC controller
	DH-PFM900-E	Integrated mount tester
	DH-PFM800-4K	Passive video balun

Accessories

Optional:

PFA130-E
Water-proof junction box (ceiling mount)

PFA130-E + PFA152-E
Water-proof wall mount bracket + pole mount bracket (pole mount)

PFA130-E + PFA151
Water-proof wall mount bracket+corner bracket (corner mount)

PFA12A
Plastic junction box

DH-PFM320D-015
12V 1.5A DC power adapter

DH-PFM321-EN
12V 1A DC power adapter (for european countries)

DH-PFM321-BS
12V 1A DC power adapter (for UK)

DH-PFM321-US
12V 1A DC power adapter (for US)

PFM820
UTC controller

DH-PFM900-E
Integrated mount tester

DH-PFM800-4K
Passive video balun

Wall Mount	Wall Mount
PFA12A	PFA130-E

Corner Mount	Pole Mount
PFA130-E + PFA151	PFA130-E + PFA152-E

Dimensions (mm[inch])

240.7 [9.48]
146.4 [5.76]
141.0 [5.55]
90.7 [3.57]
80.2 [3.16]
76.2 [3.00]
90.4 [3.56]

⌀90.7 [⌀3.57]
⌀70.0 [⌀2.76]
3−⌀4.7 [⌀0.19]