

DH-HAC-HFW1220R-VF 2MP HDCVI IR Bullet Camera

HDCVI



- · Max 30fps@1080P
- \cdot HD and SD output switchable
- · 2.7-13.5mm vari-focal lens
- · Max. IR length 30m, 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 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.

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 $^\circ C$ to +60 $^\circ C$ (-40 $^\circ F$ to +140 $^\circ F), the camera is designed for extreme temperature environments.$

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-HFW1220R-VF

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/F1.3, 30IRE, OLux IR on	
S/N Ratio	More than 65dB	
IR Distance	Up to 30m (98feet)	
IR On/Off Control	Auto / Manual	
IR LEDs	24	
Lens		
Lens Type	Vari-focal lens / Fixed iris	
Mount Type	Board-in	
Focal Length	2.7-13.5mm	
Max Aperture	F1.3	
Angle of View	H: 104°~28°	
Focus Control	Manual	
Close Focus Distance	200mm 7.87''	

DORI Distance

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	
		Wide	Tele
Detect	25px/m (8px/ft)	46m(150ft)	159m(520ft)
Observe	63px/m (19px/ft)	18m(60ft)	63m(208ft)
Recognize	125px/m (38px/ft)	9m(30ft)	32m(104ft)
Identify	250px/m (76px/ft)	5m(15ft)	16m(52ft)

Pan / Tilt / Rotation

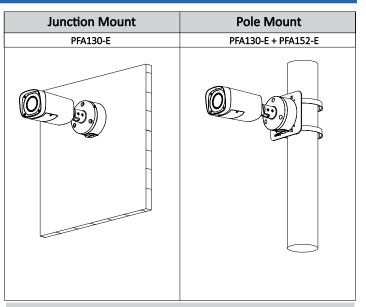
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 87° Rotation: 0° ~ 360°
Video	
Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)

Auto (ICR) / Manual
Multi-language
BLC / HLC / DWDR
DWDR
AGC
2D
Auto / Manual
Auto / Manual
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)
N/A
12V DC ±25%
Max 4.2W (12V DC, IR on)
-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)
-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH
IP67
Aluminium
213.0mm×90.4mm×90.4mm (8.39"×3.56"×3.56")
0.55kg (1.21lb)
0.68kg (1.50lb)

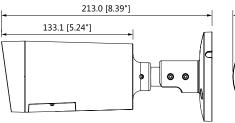
Lite Series | DH-HAC-HFW1220R-VF

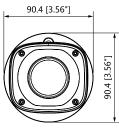
Ordering Information

Туре	Part Number	Description
2MP Camera	DH-HAC-HFW1220RP-VF	2MP HDCVI IR Bullet Camera, PAL
	DH-HAC-HFW1220RN-VF	2MP HDCVI IR Bullet Camera, NTSC
Accessories	PFA135	Junction box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFA135 junction box)
	PFM820	UTC Controller
	PFM800-E	Passive HDCVI Balun
	PFM800-4MP	Passive HDCVI Balun
	PFM800-4MP	Passive HDCVI Balun With Power
	PFM321	12V 1A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter



Dimensions (mm/inch)





Accessories

Optional:



PFA130-E Junction box



PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter

Rev 001.001



PFM800-4MP Passive HDCVI Balun



PFM320D-015 Power Adapter



PFM820

UTC Controller

PFM801-4MP Passive HDCVI Balun With Power



© 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice.