

DH-HAC-HFW1220TH-I8

2MP Value Starlight HDCVI IR Bullet Camera



* The parameters and datasheets below can only be applied to 1220-S2 series. • Value Starlight

- · 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 1080P starlight HDCVI camera presents a high quality image with rich details even under extreme low-light conditions. Also, the Lite series features compact design and friendly price. It offers various motorized 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

Starlight

With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

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.

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 \pm 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.

Lite Series | DH-HAC-HFW1220TH-I8

Technical Specification

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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		0.008Lux/F1.85, 30IRE, 0Lux IR on			
IR Distance		Distance up to 80 m (262.46 ft)			
IR On/Off Control		Auto; manual			
IR LEDs Number		2			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		3.6 mm; 6 mm; 8 mm			
Max. Aperture		F1.85			
Angle of View		3.6 mm: $103.8^{\circ} \times 87.5^{\circ} \times 47^{\circ}$ (diagonal × horizontal × vertical) 6 mm: $62.4^{\circ} \times 54.7^{\circ} \times 31.3^{\circ}$ (diagonal × horizontal × vertical) 8 mm: $47.5^{\circ} \times 41.3^{\circ} \times 23^{\circ}$ (diagonal × horizontal × vertical)			
Iris Type		Fixed iris			
Min Photographic Distance		1.0 m/2.0 m/3.3 m (3.28 ft/6.56 ft/10.82 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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)
	6mm	80 m (262.46 ft)	32 m (104.98 ft)	16 m (52.49 ft)	8 m (26.24 ft)
	8 mm	106.7 m (350.06 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)

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 4.9W (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)		

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

Lite Series | DH-HAC-HFW1220TH-I8

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC- HFW1220THP-I8 3.6mm			
	DH-HAC- HFW1220THP-I8 6mm	2MP Value Starlight HDCVI IR Bullet Camera, PAL		
	DH-HAC- HFW1220THP-I8 8mm			
	DH-HAC- HFW1220THN-I8 3.6mm			
	DH-HAC- HFW1220THN-I8 6mm	2MP Value Starlight HDCVI IR Bullet Camera, NTSC		
	DH-HAC- HFW1220THN-I8 8mm			
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		

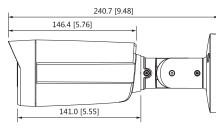




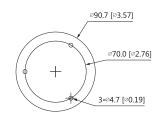
DH-PFM900-E Integrated mount tester DH-PFM800-4K Passive video balun

Wall Mount	Wall Mount	
PFA12A	PFA130-E	
Corner Mount	Pole Mount	
PFA130-E + PFA151	PFA130-E + PFA152-E	

Dimensions (mm[inch])









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Accessories

Optional:



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



PFA12A Plastic junction box



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



PFA130-E + PFA152-E

Water-proof wall mount bracket + pole mount bracket

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



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

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



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



PFM820 UTC controller

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