

DH-HAC-HFW1220TL-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 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 motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high costperformance 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 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 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.*

*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/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-HFW1220TL-A

Technical Specification Camera 1/2.7 inch CMOS Image Sensor Effective Pixels 1920(H)×1080(V), 2MP Scanning System Progressive PAL: 1/25s-1/100000s Electronic Shutter Speed NTSC: 1/30s-1/100000s S/N Ratio >65dB Minimum Illumination 0.02Lux/F1.9, 30IRE, 0Lux IR on Fill Light Working Distance 80 m (262.5 ft) IR On/Off Control Auto; manual IR LED Number 2 Pan: 0°-360° Pan/Tilt/Rotation Range Tilt: 0°–90° Rotation: 0°-360° Lens Fixed-focal Lens Type M12 Mount Type 2.8 mm; 3.6 mm; 6 mm Focal Length Max. Aperture F1.9 2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) Field of View 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) Iris Type Fixed iris 2.8 mm: 0.5 m (1.7 ft) Close Focus Distance 3.6 mm: 0.8 m (2.6 ft) 6 mm: 2 m (6.6 ft) Identify Lens Detect Observe Recognize 38.6 m 15.4 m 7.7 m 3.9 m DORI 2.8 mm (126.6 ft) (50.5 ft) (25.3 ft) (12.8 ft) Distance 49.7 m 19.9 m 9.9 m 5 m 3.6 mm (163.1 ft) (65.3 ft) (32.5 ft) (16.4 ft) 82.8 m 33.1 m 16.6 m 8.3 m 6 mm (271.7 ft) (108.6 ft) (54.5 ft) (27.2 ft) Video

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 (EN55032:2015, 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 C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port	
Audio Output	One channel built-in mic (-A)
Video Output	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 cover+plastic main body+plastic bracket
Camera Dimensions	198.9 mm × 80.2 mm × 76.2 mm (7.83" × 3.16" × 3.00")
Net Weight	0.27 Kg (0.60 lb)
Gross Weight	0.40 Kg (0.88 lb)

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	

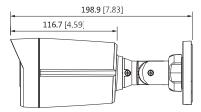
Lite Series | DH-HAC-HFW1220TL-A

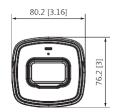
Ordering Information

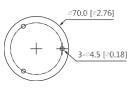
Туре	Part Number	Description	
2MP Camera	DH-HAC- HFW1220TLP-A 2.8mm	2MP HDCVI IR Bullet Camera	
	DH-HAC- HFW1220TLN-A 2.8mm		
	DH-HAC- HFW1220TLP-A 3.6mm		
	DH-HAC- HFW1220TLN-A 3.6mm		
	DH-HAC- HFW1220TLP-A 6mm		
	DH-HAC- HFW1220TLN-A 6mm		
F Accessories F F	PFA134	Junction Box	
	PFA130-E	IP66 Junction Box (For use alone or with PFA152-E pole mount)	
	PFA152-E	Pole Mount Bracket (For use with PFA130-E 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 PFA134 PFA130-E PFA120-E+PFA152-E Image: Comparison of the system of

Dimensions (mm[inch])







Accessories

Optional:



PFA134 Junction box



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



PFA130-E IP66 Junction Box (For use alone or with PFA152-E pole mount)



PFM321D 12V 1A Power Adapter



PFA152-E Pole Mount Bracket (For use with PFA130-E junction box)



PFM820 UTC Controller