

# DH-HAC-HFW1220S

2MP HDCVI IR Bullet Camera

## HDCVI



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · 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 °C to +60 °C (-40 °F to +140 °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-HFW1220S

Technical Specification				Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)	
Camera			Day/Night	Auto (ICR) / Manual		
Image Sensor	1/2.9" CMOS	1/2.9" CMOS		OSD Menu	Multi-language	
Effective Pixels	1920(H)×1080(V), 2MP			BLC Mode	BLC / HLC / DWDR	
Scanning System	Progressive			WDR	DWDR	
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s			Gain Control	AGC	
Minimum Illumination	0.02Lux/F2.0, 30IRE, 0Lu	0.02Lux/F2.0, 30IRE, 0Lux IR on		Noise Reduction	2D	
S/N Ratio	More than 65dB			White Balance	Auto / Manual	
IR Distance	Up to 30m (98feet)	Up to 30m (98feet)		Smart IR	Auto / Manual	
IR On/Off Control	Auto / Manual			Certifications		
IR LEDs	18			Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-201 UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Lens Type Fixed lens / Fixed iris			Interface			
Mount Type	Board-in	Board-in		Audio Interface	N/A	
Focal Length	3.6mm (2.8mm, 6mm Op	3.6mm (2.8mm, 6mm Optional)		Eelectrical		
Max Aperture	F2.0			Power Supply	12V DC ±25%	
Angle of View	H: 80.8° (106°/51°)			Power Consumption	Max 2.8W (12V DC, IR on)	
Focus Control	N/A	N/A		Environmental		
Close Focus Distance	800mm (500mm/1900m 31.5" (19.7"/74.8")	800mm (500mm/1900mm) 31.5" (19.7"/74.8")		Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)	
DORI Distance				Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	
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.			Ingress Protection & Vandal Resistance	IP67		
			Construction			
	DORI	Distance		Casing	Aluminium	
Detect	Definition 25px/m (8px/ft)	3.6mm: 57m(187ft) 2.8mm:45m(149ft) 6mm: 86m(281ft)		Dimensions	164.7mm×70mm×71.6mm (6.48"×2.76"×2.82")	
				Net Weight	0.35kg (0.77lb)	
				Gross Weight	0.44kg (0.97lb)	
Observe	63px/m (19px/ft)	3.6mm: 23m(75ft) 2.8mm:18m(59ft) 6mm:34m(113ft)				

3.6mm: 11m(37ft) 2.8mm:9m(30ft) 6mm: 17m(56ft)

Identify	250ppm (76px/ft)	3.6mm: 6m(19ft) 2.8mm:5m(15ft) 6mm: 9m(28ft)	
Pan / Tilt / Rotation			
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°		
Video			
Resolution	1080P (1920×1080)		
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P		
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125px/m (38px/ft)

Recognize

### Lite Series | DH-HAC-HFW1220S

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-HAC-HFW1220SP 2.8mm	2MP HDCVI IR Bullet Camera, PAL			
	DH-HAC-HFW1220SP 3.6mm				
	DH-HAC-HFW1220SP 6mm				
	DH-HAC-HFW1220SN 2.8mm				
	DH-HAC-HFW1220SN 3.6mm	2MP HDCVI IR Bullet Camera, NTSC			
	DH-HAC-HFW1220SN 6mm				
	PFA134	Junction box (For use alone or with PFA152-E pole mount)			
	PFA152-E	Pole mount (For use with PFA134 junction box)			
	PFM820	UTC Controller			
Accessories	PFM800-E	Passive HDCVI Balun			
	PFM800-4MP	Passive HDCVI Balun			
	PFM801-4MP	Passive HDCVI Balun With Power			
	PFM321	12V 1A Power Adapter			
	PFM320D-015	12V 1.5A Power Adapter			
Accessories					

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#### Optional:



PFA134 Junction box



PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM800-4MP Passive HDCVI Balun



PFM801-4MP Passive HDCVI Balun With Power



PFM321 12V 1A Power Adapter



PFM320D-015 Power Adapter



PFM820 UTC Controller





