

# DH-HAC-HFW1230D 2MP Starlight HDCVI IR Bullet Camera

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

### Smart IR

Experience 1080P full HD video and the simplicity of using existing cabling The camera is designed with IR LED illumination for best lowlight infrastructure with HDCVI. The 1080P starlight HDCVI camera present performance. Smart IR is a technology to ensure brightness uniformity in a high quality image with rich details even under extreme low-light B/W image under low illumination. Dahua's unique Smart IR adjusts to the conditions. Also, the Lite series features compact design and friendly intensity of camera's infrared LEDs to compensate for the distance of an price. It offers various motorized vari-focal/fixed lens models with a object, and prevents IR LEDs from overexposing images as the object come multi-language OSD and HD/SD switchable output. Its structural flexibility closer to the camera.

and high cost-performance makes the camera an ideal choice for SMB solutions.

# **Functions**

### 4 Signals over 1 Coaxial Cable

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 UTProtection 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 Supporting ±30% input voltage tolerance, this camera suits even the most configuring a network.

### 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.

### **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 4 Signals over 1 Coaxial Cable HDCVI technology supports 4 signals to be transmitted over 1 coaxial 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.

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.

protection. HDCVI system can seamlessly upgrade the traditional ana-unstable power supply conditions. Its 4KV lightning rating provides proplay approach enables full HD video surveillance without the hassle of

# Lite Series | DH-HAC-HFW1230D

## **Technical Specification**

# Camera

Image Sensor	1/2.8" 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	0.005Lux/F1.6, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 80m (262feet)
IR On/Off Control	Auto / Manual
IR LEDs	2
Lens	

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	3.6mm (6mm, 8mm Optional)
Max Aperture	F1.6
Angle of View	H: 86.9° (52.9°/40.5°)
Focus Control	N/A
Close Focus Distance	1200mm (2400mm/3300mm) 47.2'' ( 94.5''/129.9'')

## 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
Detect	25px/m (8px/ft)	3.6mm: 55m(181ft) 6mm: 83m(272ft) 8mm:110m(362ft)
Observe	63px/m (19px/ft)	3.6mm: 22m(73ft) 6mm:33m(109ft) 8mm:44m(145ft)
Recognize	125px/m (38px/ft)	3.6mm: 11m(36ft) 6mm: 17m(54ft) 8mm:22m(73ft)
Identify	250ppm (76px/ft)	3.6mm: 6m(18ft) 6mm: 8m(27ft) 8mm:11m(36ft)

# Pan / Tilt / Rotation

	Pan: 0° ~ 360°
Pan/Tilt/Rotation	Tilt: 0° ~ 87°
	Rotation: 0° ~ 360°

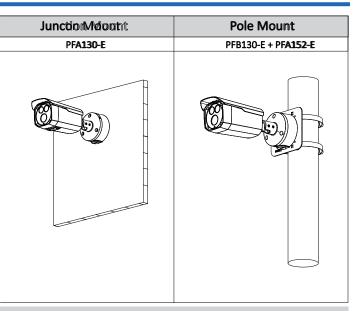
## Video

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)

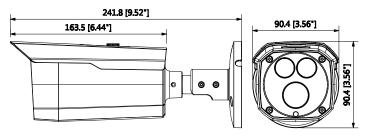
Day/Night	Auto (ICR) / Manual	
OSD Menu	Multi-language	
BLC Mode	BLC / HLC / DWDR	
WDR	DWDR	
Gain Control	AGC	
Noise Reduction	2D	
White Balance	Auto / Manual	
Smart IR	Auto / Manual	
Certifications		
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Interface		
Audio Interface	N/A	
Eelectrical		
Power Supply	12V DC ±30%	
Power Consumption	Max 5.6W (12V DC, IR on)	
Environmental		
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)	
Storage Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH	
Ingress Protection & Vandal Resistance	IP67	
Construction		
Casing	Aluminium	
Dimensions	241.8mm×90.4mm×90.4mm (9.52"×3.56"×3.56")	
Net Weight	0.58kg (1.28lb)	
Gross Weight	0.71kg (1.57lb)	

# Lite Series | DH-HAC-HFW1230D

	Ordering Info	rdering Information		
	Туре	Part Number	Description	
	2MP Camera	DH-HAC-HFW1230DP 3.6mm	2MP Starlight HDCVI IR Bullet Camera, PAL	
		DH-HAC-HFW1230DP 6mm		
		DH-HAC-HFW1230DP 8mm		
		DH-HAC-HFW1230DN 3.6mm	2MP Starlight HDCVI IR Bullet Camera, NTSC	
		DH-HAC-HFW1230DN 6mm		
		DH-HAC-HFW1230DN 8mm		
	Accessories	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)	
		PFA152-E	Pole mount (For use with PFA130-E junction box)	
		PFM820	UTC Controller	
		РҒМ800-Е	Passive HDCVI Balun	
		PFM800-4K	Passive Video Balun	
		PFM800B-4K	Passive Video Balun	
		PFM321	12V 1A Power Adapter	
		PFM320D-015	12V 1.5A Power Adapter	
		PFM300	12V 2A Power Adapter	



# Dimensions (mm/inch)



# Accessories

PFA130-E

Junction box

Optional:



PFA152-E Pole mount PFM820 UTC Controller

PFM800-E Passive HDCVI Balun PFM800-4K Passive Video Balun PFM800B-4K Passive Video Balun

PFM321 12V 1A Power Adapter

PFM320D-015 Power Adapter PFM300 Power Adapter



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