

DH-HAC-HFW1400CM(-A)

4MP HDCVI IR Bullet Camera



- Max 30fps@4MP
- CVI/CVBS/AHD/TVI switchable
- 3.6mm fixed lens (2.8mm optional)
- Max. IR length 30m, Smart IR
- Built-in mic(-A)
- IP67, DC12V



System Overview

Experience 4MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 4MP 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 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 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 700 m for 4MP HD video via coaxial cable, and up to 300 m 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 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 ±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.

Technical Specification						WDR		DWDR	
Camera						White Balance		Auto; manual	
Image Sensor		1/2.7 inch CMOS				Gain Control		Auto; manual	
Max. Resolution		2560(H)×1440(V)				Noise Reduction		2D NR	
Pixel		4MP				Smart IR		Yes	
Scanning System		Progressive				Electronic Defog		Yes	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Mirror		Off/On	
S/N Ratio		>65dB				Privacy Masking		Off/On (8 area, rectangle)	
Min. Illumination		0.02Lux/F2.0, 30IRE, 0Lux IR on				Certifications			
Illumination Distance		30 m (98.4 ft)				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)			
Illuminator On/Off Control		Auto; manual				Port			
Illuminator Number		3				Video Output			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Video output choices of CVI/TVI/AHD/CVBS by one BNC port			
Lens						Power			
Lens Type		Fixed-focal				Power Supply		12V ±30% DC	
Mount Type		M12				Power Consumption		Max 3.7W (12V DC, IR on)	
Focal Length		2.8 mm; 3.6 mm				Environment			
Max. Aperture		F2.0				Operating Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)	
Field of View		2.8 mm: 125° x 105° x 56° (diagonal x horizontal x vertical) 3.6 mm: 104° x 87° x 47° (diagonal x horizontal x vertical)				Storage Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)	
Iris Type		Fixed iris				Protection Grade		IP67	
Close Focus Distance		2.8 mm: 0.7m (2.3 ft) 3.6 mm: 1.1m (3.6 ft)				Structure			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing		Metal throughout the whole casing	
	2.8 mm	49.8m (163.4 ft)	19.9m (65.3 ft)	10m (32.8 ft)	5m (16.4 ft)	Camera Dimensions		166.6mm×69.7mm×70.0mm (6.56"×2.75"×2.75")	
	3.6 mm	64m (210.0 ft)	25.6m (84 ft)	12.8m (42 ft)	6.4m (21 ft)	Net Weight		0.33 Kg (0.73 lb)	
Video						Gross Weight		0.43 Kg (0.95 lb)	
Frame Rate		CVI: PAL: 4M@25fps; 1080P@25fps; NTSC: 4M@30fps; 1080P@30fps AHD: PAL: 4M@25fps; NTSC: 4M@30fps TVI: PAL: 4M@25fps; NTSC: 4M@30fps CVBS: PAL: 960H; NTSC: 960H				Resolution			
Resolution		4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)				Day/Night			
Day/Night		Auto switch by ICR				BLC			
BLC		BLC/HLC/DWDR							

Ordering Information

Type	Part Number	Description
4MP Camera	DH-HAC-HFW1400CMP 2.8mm	4MP HDCVI IR Bullet Camera
	DH-HAC-HFW1400CMN 2.8mm	
	DH-HAC-HFW1400CMP-A 2.8mm	
	DH-HAC-HFW1400CMN-A 2.8mm	
	DH-HAC-HFW1400CMP 3.6mm	
	DH-HAC-HFW1400CMN 3.6mm	
	DH-HAC-HFW1400CMP-A 3.6mm	
	DH-HAC-HFW1400CMN-A 3.6mm	
Accessories	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)
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM820 (Only 1080P and below are available)	UTC Controller
	PFM904	Integrated Mount Tester

Accessories

Optional:



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 PFB204W)



PFM800-4K
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM820
UTC Controller



PFM904
Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

