

# 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  $\pm 30\%$  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-HFW1400CM(-A)

Technical Specification					WDR	DWDR	
Camera					White Balance	Auto; manual	
Image Sensor		1/2.7 inch CMOS				Gain Control	Auto; manual
Max. Resolution	on	2560(H)×1440(V)				Noise Reduction	2D NR
Pixel		4MP				Smart IR	Yes
Scanning Syst	em	Progressive				Electronic Defog	Yes
Electronic Shu	tter 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. Illuminat	ion	0.02Lux/F2.0, 30IRE, 0Lux IR on				Certifications	
Illumination D		30 m (98.4 ft) Auto; manual				Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 6100 3-3:2013, EN55024:2010+A1:2015, EN 55035:20 EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2
Illuminator Nu	ımber	3				Down	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Port Video Output	Video output choices of CVI/TVI/AHD/CVBS by 6 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% (noncondensation)
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% (noncondensation)
						Protection Grade	IP67
Iris Type		Fixed iris				Structure	
"						Casing	Metal throughout the whole casing
Close Focus Distance		2.8 mm: 0.7m (2.3 ft) 3.6 mm: 1.1m (3.6 ft)				Camera Dimensions	166.6mm×69.7mm×70.0mm (6.56"×2.75"×2.75
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.33 Kg (0.73 lb)
	2.8 mm	49.8m (163.4 ft)	19.9m (65.3 ft)	10m (32.8 ft)	5m (16.4 ft)	Gross Weight	0.43 Kg (0.95 lb)
	3.6 mm	64m (210.0 ft)	25.6m (84 ft)	12.8m (42 ft)	6.4m (21 ft)		
Video							

PAL: 4M@25fps; 1080P@25fps; NTSC: 4M@30fps; 1080P@30fps

4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 ×

AHD: PAL: 4M@25fps; NTSC: 4M@30fps

TVI:

CVBS: PAL: 960H; NTSC: 960H

PAL: 4M@25fps; NTSC: 4M@30fps

576/960 × 480)

Auto switch by ICR

BLC/HLC/DWDR

Frame Rate

Resolution

Day/Night

BLC

#### **Ordering Information** Description Part Number Type DH-HAC-HFW1400CMP 2.8mm DH-HAC-HFW1400CMN 2.8mm DH-HAC-HFW1400CMP-A 2.8mm DH-HAC-HFW1400CMN-A 2.8mm 4MP HDCVI IR Bullet Camera 4MP Camera DH-HAC-HFW1400CMP 3.6mm HFW1400CMN 3.6mm DH-HAC-HFW1400CMP-A 3.6mm DH-HAC-HFW1400CMN-A 3.6mm PFA134 Junction Box IP66 Junction Box (For use alone or with PFA130-E PFA152-E pole mount) Pole Mount Bracket (For use with PFA130-E PFA152-E junction box) Passive HDCVI Balun PFM800-4K Accessories PFM321D 12V 1A Power Adapter PFM820 UTC Controller (Only 1080P and below are available) PFM904 Integrated Mount Tester

## Accessories

#### Optional:



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



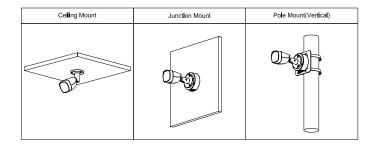
PFM321D 12V 1A Power Adapter



PFM820 UTC Controller



PFM904 Integrated Mount Tester



# Dimensions (mm[inch])

