

# DH-HAC-D3A41-VF

4MP HDCVI Manual Vari-focal IR Dome Camera

## HDCVI



- · Max. 30fps@4MP
- · HD and SD output switchable
- · 2.7-12mm vari-focal lens
- · Max. IR length 30m, Smart IR
- · IP67, DC12V











#### **System Overview**

Experience 4MP video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 4MP 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 700m for 4MP HD video tran-smission via coaxial cable, and up to 300m 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 array 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 XVRs 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-30 °C to +60 °C (-22 °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							BLC Mode	BLC / HLC / DWDR
Camera							WDR	DWDR
Image Sensor		1/2.7" CMOS					Gain Control	AGC
Effective Pixels		2560(H)×1440(V), 4MP					Noise Reduction	2D
Scanning System		Progressive					White Balance	Auto / Manual
Electronic Shutter Speed		PAL: 1/25~1/100000s NTSC: 1/30~1/100000s					Smart IR	Auto / Manual
Minimum Illumination		0.04Lux/F1.7,30IRE, 0Lux IR on					Certifications	
S/N Ratio		More than 65dB					Certifications	CE (EN55032, EN55024 FCC (CFR 47 FCC Part 1! UL (UL60950-1+CAN/CS
IR Distance IR On/Off Control		Up to 30m (98ft) Auto / Manual					Interface	
IR LEDs	IR LEDs		2				Audio Interface	N/A
Lens	Lens						Eelectrical	
Lens Type		Vari-focal lens / Fixed iris					Power Supply	12V DC ±30%
Mount Type		Board-in					Power Consumption	Max 3.7W (12V DC, IR o
Focal Length		2.7-12mm					Environmental	
Max Aperture		F1.7					Operating Conditions	-30°C ~ +60°C (-22°F ~ - * Start up should be do
Angle of View		W:126° x 105° x 56°(diagonal x horizontal x vertical) T:38° x 33° x 19° (diagonal x horizontal x vertical)					Storage Conditions	-30°C ~ +60°C (-22°F ~ -
Focus Control		Manual					Ingress Protection & Vandal Resistance	IP67
Close Focus Distance		0.8m(2.6ft)					Construction	
	Lens	Detect	Observe	Recognize	Identify		Casing	Plastic
DORI distance	2.7mm	60m (197ft)	24m (79ft)	12m (40ft)	6m (20ft)		Dimensions	Ф122mm×98.1mm (Ф4
	12mm	176 m (557 ft)	70m (230ft)	35m (99ft)	17m (56ft)		Net Weight	0.33kg (0.73lb)
Pan / Tilt / F	Rotation						Gross Weight	0.45kg (1.00lb)

	PAL: 4M@25fps; 1080P@25fps NTSC: 4M@30fps; 1080P@30fps AHD: PAL: 4M@25fps;
Video Output	NTSC: 4M@30fps; TVI:
	PAL: 4M@25fps;
	NTSC: 4M@30fps;
	CVBS:
	960H;

Pan: 0° ~ 355° Tilt: 0° ~ 75°

Rotation: 0° ~ 355°

Day/Night OSD Menu

Pan/Tilt/Rotation

Video

Resolution

Frame Rate

### Cooper Series | DH-HAC-D3A41-VF

Ordering Information							
Туре	Part Number	Description					
4MP Camera	DH-HAC-D3A41P-VF	4MP HDCVI IR Dome Camera, PAL					
	DH-HAC-D3A41N-VF	4MP HDCVI IR Dome Camera, NTSC					
	PFA137	Junction box (For use alone)					
	PFA123	Water-proof Junction Box					
	PFB203W	Wall mount (For use alone or with PFA152-E pole mount)					
	PFA152-E	Pole mount (For use with PFB203W wall mount)					
	PFA200W	Rain Shade (For use with PFA137 wall mount or with PFA137 wall mount and PFA152-E pole mount)					
Accessories	PFA106	Adapter Plate(For use with PFB220C)					
	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera					
	PFM800-4K	Passive Video Balun					
	PFM321	12V 1A Power Adapter					
	PFM820(Only 1080P and below are available)	UTC Controller					
	PFM907	Integrated Mount Teste					

#### Optional:



PFA137 Junction box



PFA152-E Pole mount

PFB220C

Ceiling mount

bracket



PFA123 Junction box

PFB203W

Wall mount

PFA106

Adapter plate

PFM820

available)

UTC controller



PFA200W Rain shade



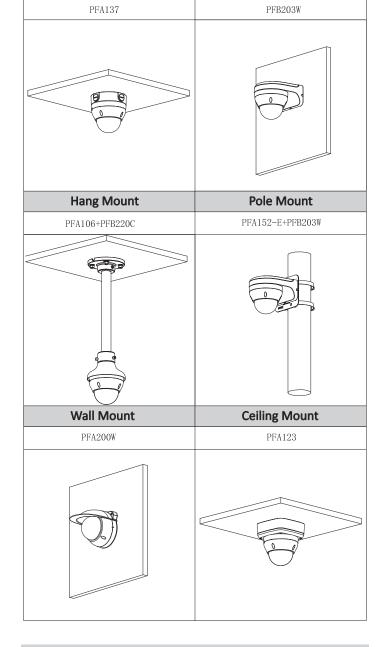
PFM800-4K



Passive Video Balun

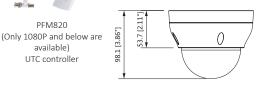


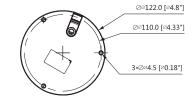
Integrated Mount Tester



**Ceiling Mount** 

### Dimensions (mm/inch)





**Wall Mount** 





