

DH-HAC-D1A41

4MP HDCVI Fixed IR Dome Camera

HDCVI



- · Max. 30fps@4MP
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 20m, Smart IR
- · DC12V











System Overview

Experience 4MP video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 4MP 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 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 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 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

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.

Cooper Series | DH-HAC-D1A41

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 Shut	ter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s					Smart IR	Auto / Manual
Minimum Illumination		0.04Lux/F2.0, 30IRE, 0Lux IR on					Certifications	
S/N Ratio		More than 65dB					Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
IR Distance IR On/Off Control		Up to 20m (66feet) Auto / Manual					Interface	, , , , , ,
IR LEDs		12					Audio Interface	N/A
Lens						Eelectrical		
Lens Type		Fixed lens /	Fixed iris				Power Supply	12V DC ±30%
Mount Type		Board-in					Power Consumption	Max. 2.8W (12V DC, IR on)
Focal Length		3.6mm (2.8mm Optional)					Environmental	
Max Aperture		F2.0					Operating Conditions	-40°C $^{\sim}$ +45°C (-40°F $^{\sim}$ +113°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Angle of View		2.8mm:125° x105° x56° (diagonal x horizontal x vertical)					Storage Conditions	-40°C ~ +45°C (-40°F ~ +113°F) / Less than 95% RH
		3.6mm. 107° x 89° x 48° (diagonal x horizontal x vertical)					Ingress Protection & Vandal Resistance	N/A
Focus Control		N/A					Construction	
Close Focus Distance		2.8mm:0.7m(2.3 ft) 3.6mm:1.1 m (3.6 ft)					Casing	Plastic
DORI distance	Lens	Detect	Observe	Recognize	Identify		Dimensions	Φ100mm×74.3mm(Φ3.9"×2.9")
	2.8mm	49.8 m	19.9 m	10.0 m	5.0 m	Net Weight	0.14kg (0.31lb)	
	2.0111111	(163.0 ft)	(65.0 ft)	(33.0 ft)	(17.0 ft)		Gross Weight	0.21kg (0.46lb)
	3.6mm	64.0 m (210.0 ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)			
Pan / Tilt / F	Rotation							

Video

Pan/Tilt/Rotation

Resolution	4M (2560 × 1440); 1080P (1920 × 1080); 960H (960 × 576/960 × 480)
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: 960H;
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language

Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355°

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Ordering Information					
Туре	Part Number	Description			
	DH-HAC-D1A41P 2.8 mm	4MP HDCVI Fixed IR Dome Camera, PAL			
ANAD Company	DH-HAC-D1A41P 3.6 mm				
4MP Camera	DH-HAC-D1A41N 2.8 mm	4MP HDCVI Fixed IR Dome Camera, NTSC			
	DH-HAC-D1A41N 3.6 mm				
	PFA13G	Junction Box			
	PFA152-E	Pole Mount Bracket			
	PFB203W	Water-proof Wall Mount Bracket			
Accessories	PFM800-4K	Passive Video Balun			
Accessories	PFM820(Only 1080P and below are available)	UTC controller			
	PFM321	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			

Junction Mount	Pole Mount		
PFA13G	PFB203W + PFA152-E		
Wall Mount			
PFB203W			
Dimensions (mm/inch)			

Accessories

Optional:



PFA13G Junction box



PFA152-E Pole mount



PFB203W Wall mount



PFM800-4K Passive Video Balun



PFM820 (Only 1080P and below are available) UTC controller



PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester



