

# DH-HAC-D1A21

### 2MP HDCVI IR Dome Camera



- · Max. 30 fps@1080p
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- · Max. IR length 20 m, Smart IR
- 12 VDC











#### **System Overview**

The Cooper Series offers simple and highly cost-effective HDCVI solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving cost on both material and labor force. It is also designed and built to the specific standards of Dahua.

#### **Functions**

#### **Smart IR Illumination**

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio\*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

\* Audio input is available for select HDCVI camera models.

#### **Long Distance Transmission**

HDCVI technology provides long distance transmission in real-time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

#### Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

#### Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

Technical Specification							Day/Night	Auto (ICR)/Color/B/W
Camera							BLC	BLC; HLC; DWDR
Pixel		2 MP					WDR	DWDR
Image Sensor		2MP CMOS					White Balance	Auto; Area white balance
Max. Resolution		1920 (H) × 1080 (V)					Gain Control	Auto/Manual
Scanning System		Progressive					Noise Reduction	2D NR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					Smart Illumination	Yes
		0.04 lux@F2.0 (Color, 30 IRE)					Mirror	Yes
Min. Illumination		0.004 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Certification	
Illumination Distance		20 m (65.62 ft)					Certifications	CE (EN55032:2015, EN61000-3-2:2014, EN61000- 3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017 FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Illuminator On/Off Control		Auto/Manual						
Illuminator Number		12 (IR light)					Port	
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BN0 port
Lens						Power		
Lens Type		Fixed-focal					Power Supply	12 VDC ± 30%
Lens Mount		M12					Power Consumption	Max. 3 W (12 VDC, 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)
Field of View		2.8 mm: H: 100°; V: 53°; D: 120°					Operating Humidity	<95% (RH), non-condensing
		3.6 mm: H: 82°; V: 42°; D: 98° Fixed					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		2.8 mm: 0.6 m (1.97 ft)					Structure	
Close Focus Distance		3.6 mm: 1.0 m (3.28 ft)					Casing	Plastic
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Product Dimensions	Φ100 mm × 74.1 mm (Φ3.94" × 2.92")
	2.8 mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)		Packaging Dimensions	137 mm × 136 mm × 113 mm (5.39" × 5.35" × 4.45")
	3.6 mm	60.9 m (199.80 ft)	24.3 m (79.72 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)		Net Weight	0.14 kg (0.31 lb)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/						Gross Weight	0.24 kg (0.53 lb)
							Installation	Wall mount; ceiling mount; horizontal pole mount

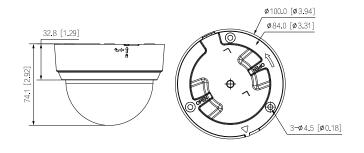
# Video

Video Frame Rate	CVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps TVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps AHD: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)

# Cooper Series | DH-HAC-D1A21

Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-D1A21P	2MP HDCVI IR Dome Camera, PAL					
ZIVIP Camera	DH-HAC-D1A21N	2MP HDCVI IR Dome Camera, NTSC					
	PFA13G	Junction Box					
	PFB205W+PFA152-E	Pole Mount Bracket					
	PFB205W	Wall Mount Bracket					
Accessories (Optional)	PFA106+PFB220C	Ceiling Mount Bracket					
	PFM800-E	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

# Dimensions (mm[inch])



#### Accessories

## Optional:



PFA13G Junction Box



PFB205W+PFA152-E Pole Mount Bracket



PFB205W Wall Mount Bracket



PFA106+PFB220C Ceiling Mount Bracket



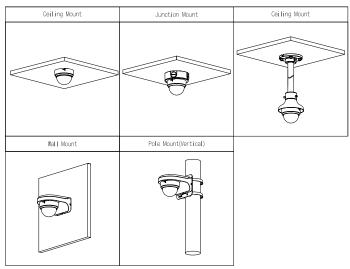
PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



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