

DH-HAC-T2A21

2MP HDCVI IR Eyeball Camera



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.

- · Max. 30 fps@1080p
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- · Max. IR length 20 m, Smart IR
- IP67,12 VDC













Protection

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

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							WDR	DWDR	
Camera						White Balance	Auto; Area white balance		
Pixel		2 MP					Gain Control	Auto/Manual	
Image Sensor		2MP CMOS					Noise Reduction	2D NR	
Max. Resolution		1920 (H) × 1080 (V)					Smart Illumination	Yes	
Scanning System		Progressive					Mirror	Yes	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					Privacy Masking	Off/On (8 areas, rectangle)	
Min. Illumination		0.04 lux@F2.0 (Color, 30 IRE) 0.004 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Certification	CE (EN55032:2015, EN61000-3-2:2014, EN61000-	
S/N Ratio		>65 dB					Certifications	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)	
Illumination Distance		20 m (65.62 ft)					Port		
Illuminator On/Off Control		Auto/Manual					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Illuminator Number		2 (IR light)					Power	port	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Power Supply	12 VDC ± 30%	
Lens							Power Consumption	Max. 2.7 W (12 VDC, IR on)	
Lens Type		Fixed-focal					Environment		
Lens Mount		M12					Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Operating Humidity	<95% (RH), non-condensing	
Max. Aperture		F2.0					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Field of View		2.8 mm: H: 100°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 42°; D: 98° 6 mm: H: 53°; V: 30°; D: 60°					Protection	IP67	
							Structure		
Iris Control		Fixed					Casing	Metal	
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft)					Product Dimensions	Φ94 mm × 78 mm (Φ3.70" × 3.07")	
		6 mm: 2.0 m (6.56 ft)					Packaging Dimensions	109 mm × 109 mm × 85 mm (4.29" × 4.29" × 4.17")	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Net Weight	0.27 kg (0.60 lb)	
	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)		Gross Weight	0.32 kg (0.71 lb)	
	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)		Installation	Wall mount; ceiling mount; horizontal pole mount	
	6 mm	82.8 m (271.65 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	8.3 m (27.23 ft)				
Video									

Resolution	1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)
Day/Night	Auto (ICR)/Color/R/W

AHD:

CVBS: PAL: 960H NTSC: 960H

CVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

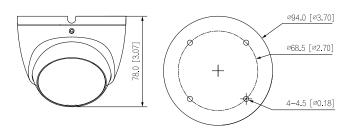
BLC BLC; HLC; DWDR

Video Frame Rate

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Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-T2A21P	2MP HDCVI IR Eyeball Camera, PAL					
ZIVIP Camera	DH-HAC-T2A21N	2MP HDCVI IR Eyeball Camera, NTSC					
	PFA13A-E	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:



PFA13A-E 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

