

# DH-HAC-T3A21-VF

# 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.
- · 2.7-12mm vari-focal lens.
- · Max. IR length 40 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.

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Technical Specification							Noise Reduction	2D NR
Camera							Smart Illumination	Yes
Pixel		2 MP					Mirror	Yes
Image Sensor		2MP CMOS					Privacy Masking	Off/On (8 areas, rectangle)
Max. Resolution		1920 (H) × 1080 (V)					Certification	
Scanning System		Progressive					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)
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s						
Min. Illumination		0.04 lux@F1.7 (Color, 30 IRE) 0.004 lux@F1.7 (B/W, 30 IRE) 0 lux (Illuminator on)					Port	, , , , , , , , , , , , , , , , , , , ,
S/N Ratio		>65 dB					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illumination Distance		40 m (131.23 ft)					Power	
Illuminator On/Off Control		Auto/Manual					Power Supply	12 VDC ± 30%
Illuminator Number		2 (IR light)					Power Consumption	Max. 4.6 W (12 VDC, IR on)
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75°					Environment	
Tany my Notation Name		Rotation: 0°–355°					Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F)
Lens							Operating Humidity	<95% (RH), non-condensing
Lens Type		Manual Vari-focal					Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Lens Mount		ф14					Protection	IP67
Focal Length		2.7- 12 mm					Structure	
Max. Aperture		F1.7					Casing	Metal dome top + plastic
Field of View		H: 102°–32°; V: 54°–18°; D: 121°–37°					Product Dimensions	Φ122 mm × 106.2 mm (Φ4.80" × 4.18")
Iris Control		Fixed					Packaging Dimensions	155 mm × 155 mm × 135 mm (6.10" × 6.10" × 5.31")
Close Focus Distance		0.8 m (2.62 ft)					Net Weight	0.39 kg (0.86 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Gross Weight	0.51 kg (1.12 lb)
	W	45.5 m (149.28 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	4.6 m (15.09 ft)		Installation	Wall mount; ceiling mount; horizontal pole mount
	Т	137.9 m (452.43 ft)	55.2 m (181.10 ft)	27.6 m (99.55 ft)	13.8 m (45.28 ft)			

Auto (ICR)/Color/B/W

BLC; HLC; DWDR

DWDR

CVI:

PAL: 960H NTSC: 960H

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

1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)

Video

Video Frame Rate

Resolution

Day/Night

White Balance

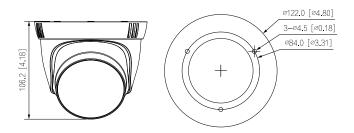
BLC

WDR

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Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-T3A21P-VF	2MP HDCVI IR Eyeball Camera, PAL					
ZIVIP Camera	DH-HAC-T3A21N-VF	2MP HDCVI IR Eyeball Camera, NTSC					
	PFA130-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:



PFA130-E Junction Box



PFB205W + PFA152-E Pole Mount Bracket



PFB205W Wall Mount Bracket



PFA106 + PFB220C Ceiling Mount Bracket



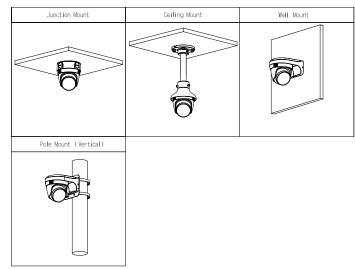
PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



Rev 002.000

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