

DH-HAC-T1A21

2MP HDCVI IR Eyeball Camera





- · Max. 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm ptional)
- · Max. IR length 20m, Smart IR
- · DC12V



System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 1080P 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. Well-way data transmission allows the HDCVI camera to interact with the CVR, such as sending control signal or triggering alarm. Moreover, CVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time to mission at long distance without any loss. It supports up to 800 (1080P)/1200m(720P) transmission via coaxial cable, and up to 300 h(1080P)/450m(720P) via UTP cable.*

*Actual results verified by real-scene testing in Dana'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 designed with microcrystalline LED IR illumination for best lowlight of formance. Smart IR is a technology to ensure brightness uniform 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 to common HD analog formats in the market. The four formats can be writched over through OSD menu or by PFM820 (UTC controller). This feature makes the camera to be compatible with not only HCVRs 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

With working temperature range of -40 °C to +60 °C (-40 °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.

Cooper Series | DH-HAC-T1A21

Camera			
Image Sensor	1/2.7" CMOS		
Effective Pixels	1920(H)×1080(V), 2MP		
Scanning System	Progressive		
Electronic Shutter Speed	PAL: 1/25~1/100000s		
Minimum Illumination	NTSC: 1/30~1/100000s 0.04Lux/F1.85, 30IRE, 0	Lux IR on	
S/N Ratio	More than 65dB		
IR Distance	Up to 20m (66feet)		
IR On/Off Control	Auto / Manual		
Lens			
Lens Type	Fixed lens / Fixed iris		
Mount Type	Board-in		
Focal Length	3.6mm (2.8mm, 6mm C	Optional)	
Max Aperture	F1.85		
Angle of View	H: 93° (103°, 54.7°)		
Focus Control	N/A		
Close Focus Distance	800mm (500mm, 2000) 31.50" (19.69", 78.74")	800mm (500mm, 2000mm) 31.50" (19.69", 78.74")	
Pan / Tilt / Rotation			
DORI Distance	DORI Distance		
Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated base on sensor specification and lab test result according to EN 62676-4 which define the criteria for Detect, Observe, Recognize and Identify respectively.			
	DORI	, O \	
	Definition	Distance	
Detect	Definition 25px/m (8px/ft)	2.8mm: 37m(121ft) 3.6mm: 51m(167ft)	
Detect	25px/m	2.8mm: 37m(121ft)	
	25px/m (8px/ft)	2.8mm: 37m(121ft) 3.6mm: 51m(167ft) 6mm: 80m(262ft) 2.8mm: 15m(49ft) 3.6mm: 20m(66ft)	
Observe	25px/m (8px/ft) 63px/m (19px/ft) 125px/m	2.8mm: 37m(121ft) 3.6mm: 51m(167ft) 6mm: 80m(262ft) 2.8mm: 15m(49ft) 3.6mm: 20m(66ft) 6mm: 32m(105ft) 2.8mm: 8m(26ft) 3.6mm: 10m(33ft)	
Observe Recognize Identify	25px/m (8px/ft) 63px/m (19px/ft) 125px/m (38px/ft)	2.8mm: 37m(121ft) 3.6mm: 51m(167ft) 6mm: 80m(262ft) 2.8mm: 15m(49ft) 3.6mm: 20m(66ft) 6mm: 32m(105ft) 2.8mm: 8m(26ft) 3.6mm: 10m(33ft) 6mm: 16m(51ft) 2.8mm: 4m(14ft) 3.6mm: 5m(17ft)	
Observe Recognize Identify	25px/m (8px/ft) 63px/m (19px/ft) 125px/m (38px/ft) 250ppm (76px/ft) Pan: 0° ~ 360° Tilt: 0° ~ 78°	2.8mm: 37m(121ft) 3.6mm: 51m(167ft) 6mm: 80m(262ft) 2.8mm: 15m(49ft) 3.6mm: 20m(66ft) 6mm: 32m(105ft) 2.8mm: 8m(26ft) 3.6mm: 10m(33ft) 6mm: 16m(51ft) 2.8mm: 4m(14ft) 3.6mm: 5m(17ft)	
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Auto (ICR) / Manual

Day/Night

	OSD Menu	Multi-language
	BLC Mode	BLC / HLC / DWDR
	WDR	DWDR
	Gain Control	AGC
	Noise Reduction	2D
	White Balance	BLC / HLC / DWDR DWDR AGC 2D Auto / Manual Auto / Manual
	Smart IR	Auto / Manual
	Certifications	
	Certifications	(QEN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
	Interface Audio Interface Folgotrical	
	Audio Interface	N/A
	Eelectrical	
	Power Supple	12V DC ±30%
	Power Consumption	Max. 2.3W (12V DC, IR on)
	Environmental	
	Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
\	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
	Ingress Protection & Vandal Resistance	NA
	Construction	
	Casing	Plastic
	Dimensions	85mm×85mm×69mm(3.35"×3.35"×2.72")
	Net Weight	0.09kg (0.20lb)

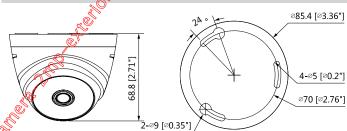
0.13kg (0.27lb)

Gross Weight

Ordering Information				
Туре	Part Number	Description		
	DH-HAC-T1A21P 2.8mm	2MP HDCVI IR Eyeball Camera, PAL		
	DH-HAC-T1A21P 3.6mm			
2MP Camera	DH-HAC-T1A21P 6mm			
ZIVIP Camera	DH-HAC-T1A21N 2.8mm	2MP HDCVI IR Eyeball Camera, NTSC		
	DH-HAC-T1A21N 3.6mm			
	DH-HAC-T1A21N 6mm			
	PFA135	Junction box (For use alone or with PFA152-E pole mount)		
	PFA152-E	Pole mount (For use with PFA135 junction box)		
Accessories	PFM800-E	Passive HDCVI Balun		
	PFM321	12V 1A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter		
	PFM300	12V 2A Power Adapter		
	PFM820	UTC Controller		

Junction Box	Pole Mount
PFA135	PFB135 + PFA152-E

Dimensions (mm/inch)



Accessories

Optional:



PFA135 Junction box





PFM800-E Passive HDCVI Balun



12V 1A Power Adapter



PFM320D-015 Power Adapter



2A Power Adapter



PFM820 UTC Controller



