

DH-HAC-T3A21-VF

2MP HDCVI IR Eyeball Camera

HDCVI



- · Max. 30fps@1080P
- · HD and SD output switchable
- · 2.7-12mm vari-focal lens
- · Max. IR length 30m, Smart IR
- · IP67, 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 2.7-12mm vari-focal 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. Dal-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, DCVI technology supports PoC for construction flexibility.

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

Long Distance Transmission

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

*Actual results verified by real-scene testing in Qalaya'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 an 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's designed with IR LED illumination for best lowlight performace. Smart IR is a technology to ensure brightness uniformity in B/Warage 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 witched over through OSD menu or by PFM820(UTC controller). This fewer makes the camera to be compatible with not only XVRs but also most of dusers' 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

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.

With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.

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.

Technical Specification	1
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 NTSC: 1/30~1/100000s
Minimum Illumination	0.04Lux/F1.85, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 30m (98feet)
IR On/Off Control	Auto / Manual
IR LEDs	2
Lens	
Lens Type	Vari-focal lens / Fixed iris
Mount Type	Board-in
Focal Length	2.7-12mm
Max Aperture	F1.8
Angle of View	H: 106°~33° V: 56°~19°
Focus Control	Manual
Close Focus Distance	500mm 19.7"
DORI Distance	

Note: The DORI distance is a "general proximity" of distance which makes it exists pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI	Distance		
	Definition	Wide	Tele	
Detect	25px/m (8px/ft)	45% (148ft)	132m(433ft)	
Observe	63px/m (19px/ft)	18m(60ft)	53m(173ft)	
Recognize	125px/m (38px/ft)	9m(30ft)	26m(87ft)	
Identify	250px/ft (76px/ft)	5m(15ft)	13m(43ft)	

Pan / Tilt / Rotation

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

Video

video	
Resolution	1080P (1920×1080)
Frame Kare	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Day/Night	Auto (ICR) / Manual

OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual

Certifications

Certifications CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)

Interface

Audio Interface N/A

Eelectrical

Power Supply
12V DC ±30%

Power Cosumption

Max 4.6W (12V DC, IR on)

Enylronmental

Construction

Casing	Plastic+Aluminium
Dimensions	Ф122mm×106mm (Ф4.8"×4.17")
Net Weight	0.39kg (0.86lb)
Gross Weight	0.51kg (1.12lb)

Ordering Inf	ormation					
					PFA137	PFA130-E
Туре	Part Number	Description				
2MP Camera	DH-HAC-T3A21P-VF		2MP HDCVI IR Eyeball Camera, PAL			
	DH-HAC-T3A21N-VF		2MP HDCVI IR Eyeball Camera, NTSC			
	PFA137	Junction box (F	Junction box (For use alone)			ath
	PFA130-E	Junction box (F	Junction box (For use alone)		6	
	PFB203W		Wall mount (For use alone or with PFA152-E pole mount)			
	PFA151	Corner mount PFW203W)	Corner mount (For use with PFW203W)			
	PFA152-E	Pole mount (Fo wall mount)	or use with PFB203W		PFB203W	PFA203w+PFA152-E
Accessories	PFA106	Adapter Plate(For use with PFB220C)			
	PFB220C		Ceiling Mount Bracket of Mini Dome & Eyeball Camera			
	PFM800-E	Passive Video I	Passive Video Balun			
	PFM321	12V 1A Power	12V 1A Power Adapter			
	PFM320D-015	12V 1.5A Powe	12V 1.5A Power Adapter			
	PFM300	12V2A Power	12V2A Power Adapter			
	PFM820	UTC Controller				
Accessories					PFA106+PFB220C	PFB203W+PFA151
Optional:						
PFA137 Junction box	PFA130-E Junction box	PFB203W Wall mount	PFA151 Wall mourt			
					6	
PFA152-E Pole mount	PFA106 Adapter plate	PFB220C Ceiling mound bracket	PFM800-E Passive Video Balun	D	imensions (mm/inch)	
	i i			106.2 [4.18"]		Ø122.0 [Ø4.0 3-Ø4.5 [Ø0.0 Ø84.0 [Ø3.3
PFM321 12V 1A Powe Adapter	PFM320D-015 Power Adapter	PFM300 12V 2A Power Adapter	PFM820 UTC Controller	106.2		



Adapter