

HAC-T2A21-A

2MP HDCVI IR Eyeball Camera

HDCVI



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 50m, Smart IR
- · IP67, DC12V













System Overview

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

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

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 800m(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 Dahua'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 is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity 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 two common HD analog formats in the market. The four formats can be switched 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

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 $\pm 25\%$ 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.

Camera				OSD Menu	
Image Sensor	1/2.7" CMOS			BLC Mode	
Effective Pixels	1920(H)×1080(V), 2MF)		WDR	
Scanning System	Progressive			Gain Control	
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	5		Noise Reducti	
Minimum Illumination	0.02Lux/F1.85, 30IRE, 0	OLux IR on		White Balance	
S/N Ratio	More than 65dB			Smart IR	
R Distance	Up to 50m (164feet)	Up to 50m (164feet)			
IR On/Off Control	Auto / Manual	Auto / Manual			
IR LEDs	1	1			
Lens				Interface	
Lens Type	Fixed lens / Fixed iris			Audio Interfac	
Mount Type	Board-in	Board-in		Eelectrical	
Focal Length	3.6mm (2.8mm, 6mm	3.6mm (2.8mm, 6mm Optional)		Power Supply	
Max Aperture	F1.85			Power Consur	
Angle of View	H: 89.9° (103°, 54.7°)	H: 89.9° (103°, 54.7°)		Environme	
Focus Control	N/A	N/A		Operating Cor	
Close Focus Distance		600mm (900mm, 2000mm) 23.62" (35.43", 78.74")		Storage Condi	
DORI Distance				Ingress Protec Resistance	
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 based on			Construction		
sensor specification and lab test criteria for Detect, Observe, Rec	result according to EN 6267	76-4 which defines the		Casing	
	DORI	Distance		Dimensions	
	Definition	DISTAILLE		Nigh Marinin	

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 42m(139ft) 3.6mm: 53m(175ft) 6mm: 78m(257ft)
Observe	63px/m (19px/ft)	2.8mm: 17m(55ft) 3.6mm: 21m(70ft) 6mm: 31m(103ft)
Recognize	125px/m (38px/ft)	2.8mm: 9m(28ft) 3.6mm: 11m(35ft) 6mm: 16m(51ft)
Identify	250ppm (76px/ft)	2.8mm: 4m(14ft) 3.6mm: 5m(17ft) 6mm: 8m(26ft)

Pan / Tilt / Rotation

	Pan: 0° ~ 360°
Pan/Tilt/Rotation	Tilt: 0° ~ 78°
	Rotation: 0° ~ 360°

Video

Resolution	1080P (1920×1080)
Frame Rate	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	

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	CE (EN55032, EN55024, EN50130-4)
Certifications	FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Audio interrace	BUIL-III IVIIC
Eelectrical	

Power Supply	12V DC ±25%
Power Consumption	Max 3.2W (12V DC, IR on)

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Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH
Ingress Protection & Vandal	IP67

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Casing	Aluminium
Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")
Net Weight	0.44kg (0.97lb)
Gross Weight	0.58kg (1.28lb)

Ordering Information				
Туре	Part Number	Descrip on		
	DH-HAC-HDW1200EMP-A 2.8mm			
	DH-HAC-HDW1200EMP-A 3.6mm	2MP HDCVI IR Eyeball Camera, PAL		
2MP Camera	DH-HAC-HDW1200EMP-A 6mm			
ZIVIP Calliera	DH-HAC-HDW1200EMN-A 2.8mm			
	DH-HAC-HDW1200EMN-A 3.6mm	2MP HDCVI IR Eyeball Camera, NTSC		
	DH-HAC-HDW1200EMN-A 6mm			
	PFA139	Junction box (For use alone)		
	PFB204W	Wall mount (For use alone or with PFA152-E pole mount)		
	PFA152-E	Pole mount (For use with PFB204W wall mount)		
Accessories	PFM820	UTC Controller		
Accessories	PFM800-E	Passive HDCVI Balun		
	PFM800-4MP	Passive HDCVI Balun		
	PFM801-4MP	Passive HDCVI Balun With Power		
	PFM321	12V 1A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter		

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Op onal:



PFA139 Junction box



PFB204W Wall mount



PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM800-4MP Passive HDCVI Balun

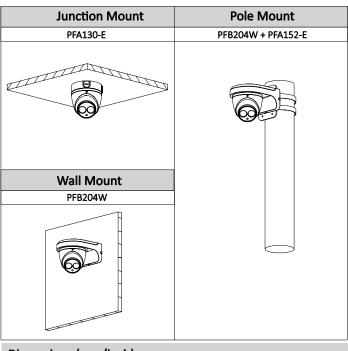


PFM801-4MP Passive HDCVI Balun With Power





PFM320D-015 Power Adapter



Dimensions (mm/inch)

