

DH-HAC-D3A21-Z

2MP HDCVI IR Dome Camera



- · Max 30fps@1080P
- · CVI/CVBS/AHD/TVI switchable
- · 2.7-12mm motorized 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 Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/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 XVR, 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 *

*This function is available for select models.

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 IR LED 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 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 -30 °C to +60 °C (-22 °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.

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Technical Specification						Electronic De	fog	Yes		
Camera						Mirror		Off/On		
Image Sensor		1/2.7 inch C	MOS			Privacy Maski	Privacy Masking Off/On (8 area, rectangle)		8 area, rectangle)	
Effective Pixels		1920(H)×10	80(V), 2MP			Certifications				
Scanning System		Progressive				Certifications		CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017,		
Electronic Shutter Speed		PAL: 1/25s-: NTSC: 1/30s	1/100000s 5–1/100000s					EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)		
S/N Ratio		>65dB				Port				
Minimum Illun	nination	0.04Lux/F1.	7, 30IRE, 0Lux I	Ron		Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Fill Light Work	ing Distance	30 m (98.4 f	t)			Power	Power			
IR On/Off Control		Auto; manua	al			Power Supply		12V ±30	% DC	
IR LED Number		2				Power Consu	wer Consumption Max 5.28W (12V DC, IR on)		BW (12V DC, IR on)	
Pan/Tilt/Rotation Range		Pan: 0°-355° Tilt: 0°-75° Rotation: 0°-				Environme	Environment			
Lens						Operating Ter			+60°C (-22°F to 140°F);<95% (non- ation)	
Lens Type		Motorized v	ari-focal			Storage Temp	Storage Temperature -30°C to conder		+60°C (-22°F to 140°F);<95% (non- ation)	
Auto Focus		N/A				Protection Gr	Protection Grade IP67			
Mount Type		ф14				Structure	Structure			
Focal Length		2.7 mm-12 r	mm			Casing Plastic		Plastic th	nroughout the whole casing	
Max. Aperture		F1.7				Camera Dime	Camera Dimensions Ф12		D122.0 mm × 98.1 mm (Φ4.80" × 3.86")	
Field of View		Diagonal: 38				Net Weight 0.		0.34 kg (0.34 kg (0.75 lb)	
		Vertical: 19°				Gross Weight	Gross Weight 0.46 kg		1.01 lb)	
Iris Type		Fixed iris								
Close Focus Distance		1.2 m (3.9 ft)							
DORI Distance		Detect	Observe	Recognize	Identify	Ordering I	Ordering Information			
	2.7mm	48.3m (158.5ft)	19.3 m (63.3 ft)	9.7 m (31.8 ft)	4.8 m (15.7ft)	Туре	Part Number		Description	

Distance	2.7mm	48.3m (158.5ft)	19.3 m (63.3 ft)	9.7 m (31.8 ft)	4.8 m (15.7ft)	Туре	Part Number	Description	
	12mm	131 m (429.8 ft)	52.4 m (171.9 ft)	26.2 m (86.0 ft)	13.1 m (43.0 ft)	2MP Camera	DH-HAC-D3A21P-Z 2.7- 12mm	2MP HDCVI IR Dome Camera	
Video						ZIVIP Calliera	DH-HAC-D3A21N-Z 2.7-12mm	ZIVIF TIDEVT IN DOTTIE CATTER A	
Frame Rate		720P@50/60				Accessories	PFA137	Junction box (For use alone)	
		TVI: 1080P@	25/30fps; 720	.0P@25/30fps;)P@25/30fps;			PFA123	IP66 Junction box	
		720P@50/60 CVBS: 960H	прѕ;				PFB203W	Wall Mount Bracket (For use alone or with PFA152-E)	
Resolution		1080P (1920: 576/960×480		(1280×720); 96	60H (960×		PFA152-E	Pole Mount Bracket (For use with PFB203W)	
Day/Night		Auto switch l	by ICR				PFA200W	Rain Shade (For use with PFA137 wall mount)	
BLC		BLC/HLC/DW	'DR				PFA106	Mount Adapter (For use with PFB220C)	
WDR		DWDR					PFB220C	Ceiling Mount Bracket (For use with PFA106)	
White Balance		Auto; manua	I				PFM321D	12V 1A Power Adapter	
Gain Control		Auto; manua	I				PFM904	Integrated Mount Tester	
Noise Reduction		2D NR					PFM800-E	Passive Video Balun	
Smart IR		Yes					PFM820	UTC Controller	

Accessories

Optional:



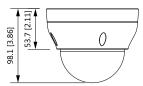
PFA137 Junction box (For use alone)



PFA123 IP66 Junction box



PFB203W Wall Mount Bracket (For use alone or with PFA152-E)



Dimensions (mm[inch])

©122.0 [@4.8] ©110.0 [@4,33] 3-@4.5 [@0.18]

PFA152-E Pole Mount Bracket (For use with PFB203W)



PFA200W Rain Shade (For use with PFA137 wall mount)



PFA106 Mount Adapter (For use with PFB220C)



PFB220C Ceiling Mount Bracket (For use with PFA106)



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



PFM800-E Passive HDCVI Balun



PFM820 UTC Controller

