

DH-HAC-HDW1221RP

2MP HDCVI IR Eyeball Camera



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 costperformance 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.

- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 30m, Smart IR
- · 130dB true WDR Starlight
- · DC12V













Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

With the adoption of large sized high performance sensor and large aperture lens, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

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

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

Lite Series | DH-HAC-HDW1221RP

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Technical Specification						Smart IR	Yes
Camera					Electronic Defog	Yes	
Image Sensor		1/2.7 inch CMOS				Mirror	Off/On
Effective Pixels		1920(H)×1080(V), 2MP				Privacy Masking	Off/On (8 area, rectangle)
Scanning System		Progressive				Certifications	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s					CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017 EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-201
S/N Ratio		>65dB				Certifications	
Minimum Illumination		0.008Lux/F1.9, 30IRE, 0Lux IR on				Down	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Fill Light Worl	king Distance	30 m (98.4 ft)				Port	Video output shoices of CVI/TVI/AUD/CVDS by on
IR On/Off Control		Auto; manual				Video Output	Video Output Video output choices of CVI/TVI/AHD/CVBS by of BNC port
IR LED Numbe	er	12				Power	
Pan/Tilt/Rotation Range		Pan: 0°-360	۰			Power Supply	12V ±30% DC
		Tilt: 0°–78° Rotation: 0°–360°				Power Consumption	Max 3.1W (12V DC, IR on)
Lens					Environment		
Lens Type		Fixed-focal				Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Mount Type Focal Length		M12 2.8 mm; 3.6 mm				Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Max. Aperture		F1.9				Protection Grade	IP50
viax. Apertur		12.5				Structure	
Field of View		vertical)		diagonal x hori		Casing	Plastic throughout the whole casing
		3.6 mm: 100 vertical)	0° x 84° x 45° (d	liagonal x horiz	ontal x	Camera Dimensions	φ85.4 mm × 70.2 mm (φ3.36" × 2.76")
Inia Tuna		Fixed iris				Net Weight	0.13 Kg (0.29 lb)
Iris Type						Gross Weight	0.19 Kg (0.42 lb)
Close Focus Distance		2.8 mm: 0.5 m (1.7 ft) 3.6 mm: 0.8 m (2.6 ft)					
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		
	3.6 mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5 m (16.4 ft)		

Frame Rate	CVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; AHD: 1080P@25/30fps; 720P@25/30fps; TVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; CVBS: 960H		
Resolution	1080P (1920×1080); 720P (1280×720); 960H (960× 576/960×480)		
Day/Night	Auto switch by ICR		
BLC	BLC/HLC/WDR		
WDR	130 bB		
White Balance	Auto; manual		
Gain Control	Auto; manual		
Noise Reduction	2D NR		

Ordering Information Description Part Number Туре DH-HAC-HDW1221RP 2.8mm DH-HAC-HDW1221RN 2.8mm 2MP Camera 2MP HDCVI IR Eyeball Camera DH-HAC-HDW1221RP 3.6mm DH-HAC-HDW1221RN 3.6mm PFA13G Junction Box Wall Mount Bracket PFB205W Pole Mount Bracket (For use with PFB205W) PFA152-E PFA106 Mount Adapter (For use with PFB220C) PFB220C Ceiling Mount Bracket (For use with PFA106) Accessories PFM800-E Passive HDCVI Balun PFM321D 12V 1A Power Adapter UTC Controller PFM820 Integrated Mount Tester PFM904

Accessories

Optional:









PFA13G Junction Box

PFB205W Wall Mount Bracket

PFA152-E Pole Mount Bracket (For use with PFB205W)



PFA106 Mount Adapter (For use with PFB220C)



PFB220C Ceiling Mount Bracket (For use with PFA106)



PFM800-E Passive HDCVI Balun



12V 1A Power Adapter



PFM820 UTC Controller



Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount	Hanging Mount
PFA13G	PFB205W	PFB205W+PFA152-E	PFA106+PFB220C

Dimensions (mm[inch])



