

DH-HAC-HDW1220M

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 30m, Smart IR
- · IP67, DC12V













System Overview

Experience full HD 1080P/ HD 720P video with the simplicity of using existing cabling infrastructure. The Lite series features compact design and high quality image at friendly price. It offers various vari-focal/fixed lens models with multi-language OSD and HD/SD switchable output. The structure flexibility and best cost-performance makes lite series 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.

Lite Series | DH-HAC-HDW1220M

2D

Auto / Manual

Auto / Manual

Noise Reduction

White Balance

Smart IR

Technical Specification	n	Certifications	
Camera		Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4
Image Sensor	1/2.9" CMOS		UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels	1920(H)×1080(V), 2MP	Interface	
Scanning System	Progressive	Audio Interface	N/A
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	Eelectrical	
Minimum Illumination	0.02Lux/F2.0, OLux IR on	Power Supply	12V DC ±25%
S/N Ratio	More than 65dB	Power Consumption	Max 2.8W (12V DC, IR on)
IR Distance	Up to 30m (98feet)	Environmental	
IR On/Off Control	Auto / Manual	Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% * Start up should be done at above -40°C (-40
IR LEDs	12	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 909
Lens		Ingress Protection &Vandal Resistance	IP67
Lens Type	Fixed lens / Fixed iris	Construction	
Mount Type	Board-in	Casing	Aluminium
Focal Length	3.6mm (2.8mm, 6mm Optional)	Dimensions	Ф93.4mm×79.4mm (Ф3.68"×3.13")
Max Aperture	F2.0	Net Weight	0.28kg (0.62lb)
Angle of View	H: 82.8° (106°/51.2°)	Gross Weight	0.35kg (0.77lb)
Focus Control	N/A		
Close Focus Distance	800mm (500mm/1900mm) 31.5" (19.7"/74.8")		
Pan / Tilt / Rotation			
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° 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		

Ordering Information			
Туре	Part Number	Description	
	DH-HAC-HDW1220MP 2.8mm	2MP HDCVI IR Eyeball Camera, PAL	
	DH-HAC-HDW1220MP 3.6mm		
2MP Camera	DH-HAC-HDW1220MP 6mm		
ZIMP Camera	DH-HAC-HDW1220MN 2.8mm	2MP HDCVI IR Eyeball Camera, NTSC	
	DH-HAC-HDW1220MN 3.6mm		
	DH-HAC-HDW1220MN 6mm		
	PFA13A	Junction box (For use alone)	
Accessories	PFB204W	Wall mount (For use alone or with PFA152 pole mount)	
Accessories	PFA152	Pole mount (For use with PFB204W wall mount)	
	PFM820	UTC Controller	

Accessories

Optional:









Dimensions (mm/inch)

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PFA13A Junction box

PFB204W Wall mount

PFA152 Pole mount



PFM820 **UTC** Controller

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Junction Mount	Pole Mount		
PFA13A	PFB204W + PFA152		
Wall Mount			
PFB204W			



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