

DH-HAC-HDW1220EM-A

2MP HDCVI IR Eyeball Camera





- · 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 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 array 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-HDW1220EM-A

Smart IR

Auto / Manual

Technical Specification		Certifications
Camera		Certifications
Image Sensor	1/2.9" CMOS	
Effective Pixels	1920(H)×1080(V), 2MP	Interface
Scanning System	Progressive	Audio Interface
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	Eelectrical
Minimum Illumination	0.02Lux/F2.0, 0Lux IR on	Power Supply
S/N Ratio	More than 65dB	Power Consumption
IR Distance	Up to 50m (164feet)	Environmental
IR On/Off Control	Auto / Manual	Operating Conditions
IR LEDs	1	Storage Conditions
Lens		Ingress Protection &Vano Resistance
Lens Type	Fixed lens / Fixed iris	Construction
Mount Type	Board-in	Casing
Focal Length	3.6mm (2.8mm, 6mm Optional)	Dimensions
Max Aperture	F2.0	Net Weight
Angle of View	H: 82.8° (106°/51.2°)	Gross Weight
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° ~ 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	

Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Interface	
Audio Interface	Built-in Mic
Eelectrical	
Power Supply	12V DC ±25%
Power Consumption	Max 2.9W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection &Vandal Resistance	IP67
Construction	
Casing	Aluminium
Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")
Net Weight	0.44kg (0.97lb)

0.58kg (1.28lb)

Ordering Information			
Туре	Part Number	Description	
2MP Camera	DH-HAC-HDW1220EMP-A 2.8mm		
	DH-HAC-HDW1220EMP-A 3.6mm	2MP HDCVI IR Eyeball Camera, PAL	
	DH-HAC-HDW1220EMP-A 6mm		
	DH-HAC-HDW1220EMN-A 2.8mm		
	DH-HAC-HDW1220EMN-A 3.6mm	2MP HDCVI IR Eyeball Camera, NTSC	
	DH-HAC-HDW1220EMN-A 6mm		
Accessories	PFA139	Junction box (For use alone)	
	PFB204W	Wall mount (For use alone or with PFA152 pole mount)	
	PFA152	Pole mount (For use with PFB204W wall mount)	
	PFM820	UTC Controller	
Accessories			

Optional:





PFB204W

Wall mount



PFA139 Junction box

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PFA152 Pole mount



PFM820 UTC Controller

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	





