

DH-HAC-HDW1220G

2MP HDCVI IR Eyeball Camera

HDCVI



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (6mm optional)
- · Max. IR length 20m, Smart IR
- · IP67, DC12V











System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series micro-sized eyeball offers a high quality image at a friendly price, as well as a micro design which is easily concealed and minimizes the impact on operations. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output Its miniature case and high cost-performance makes the camera an idea choice for concealed monitoring solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted our 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 ansmission at long distance without any loss. It supports up to 86m(1080P)/1200m(720P) transmission via coaxial cable, and up to 00m(1080P)/450m(720P) via UTP cable.*

*Actual results verified by real-scene testing in Jahua'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 nework.

Smart IR

The came 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 stitched 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-HDW1220G

Technical Specification				OSD Menu	Multi-language
Camera				BLC Mode	BLC / HLC / DWDR
Image Sensor	1/2.9" CMOS			WDR	DWDR
Effective Pixels	1920(H)×1080(V), 2MP			Gain Control	AGC
Scanning System	Progressive			Noise Reduction	2D
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s			White Balance	DWDR AGC 2D Auto / Manual
Minimum Illumination	0.02Lux/F2.0, 30IRE, 0Lux IR on			Smart IR	Auto / Manual
S/N Ratio	More than 65dB			Certifications	
IR Distance	Up to 20m (66feet)		Certifications	Certifications	CE (EN55032, EN55024, EN50130-4) FCC (OR 47 FCC Part 15 subpartB, ANSI C63.4-2 U 30L60950-1+CAN/CSA C22.2 No.60950-1)
IR On/Off Control	Auto / Manual			Certifications	
IR LEDs	1			Interface	
Lens				Audio Interface	Built-in Mic
Lens Type	Fixed lens / Fixed iris			Eelectrical	
Mount Type	Board-in			Power Supply	12V DC ±25%
Focal Length	3.6mm (6mm Optional)			Power Consumption	Max 2.9W (12V DC, IR on)
Max Aperture	F2.0			Environmental	
Angle of View	H: 80.8° (51°)			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°F
Focus Control	N/A			Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90%
Close Focus Distance	800mm (1900mm) 31.5" (74.8")			Ingress Protection & Vandal Resistance	IP67
DORI Distance		<u>,</u>	\$	Construction	
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 sensor specification and lab test result according to EN 62676-4 which deficient				Casing	Aluminium
				Dimensions	Φ62mm×62mm (Φ2.44"×2.44")
criteria for Detect, Observe, Reco	DORI			Net Weight	0.16kg (0.35lb)
	Definition	Distance		Gross Weight	0.23kg (0.51lb)
Detect	25px/m (8px/ft)	6mm: 86m(281ft)			
Observe	63px/m (19px/ft)	3.6mm: 23m(75ft) 6mm:34m(113ft)			
Recognize	125px/m (38px/ft)	3.6mm: 11m(37ft) 6mm: 17m(56ft)			
dentify	25000m (7cpx/ft)	3.6mm: 6m(19ft) 6mm: 9m(28ft)			
Pan / Tilt / Rotation	&				
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 80° Rotation: 0° ~ 360°				
Video 🔏 🐪					

1080P (1920×1080)

video output (Can switch)

Auto (ICR) / Manual

25/30fps@1080P, 25/30/50/60fps@720P

1-channel BNC high definition video output / CVBS

Resolution

Frame Rate

Video Output

Day/Night

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-HAC-HDW1220GP (3.6mm)	2MP HDCVI IR Eyeball Camera, PAL			
	DH-HAC-HDW1220GP (6mm)				
	DH-HAC-HDW1220GN (3.6mm)	2MP HDCVI IR Eyeball Camera,			
	DH-HAC-HDW1220GN (6mm)	NTSC			
	PFM820	UTC Controller			
	PFM800-E	Passive HDCVI Balun			
A	PFM800-4MP	Passive HDCVI Balun			
Accessories	PFM801-4MP	Passive HDCVI Balun With Power			
	PFM321	12V 1A Power Adapter			
	PFM320D-015	12V 1.5A Power Adapter			

Accessories

Optional:



PFM820 UTC Controller



PFM801-4MP Passive HDCVI Balun With Power



PFM800-E Passive HDCVI Balun



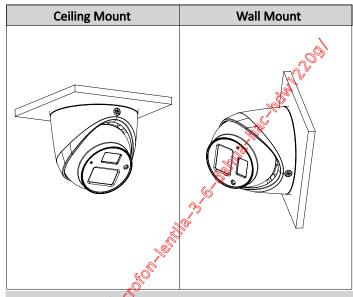
Adapter



PFM800-4MP Passive HDCVI Balun



PFM320D-015 Power Adapter



Dimensions (mm/inch)

