

DH-HAC-HDW1220R

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 20m, Smart IR
- · 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 vari-focal/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 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

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

Supporting ±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-HDW1220R

Technical Specification			Video Output	1-channel BNC high definition video output / C video output (Can switch)
Camera		Day/Night	Auto (ICR) / Manual	
Image Sensor	1/2.9" CMOS		OSD Menu	Multi-language
Effective Pixels	1920(H)×1080(V), 2MP		BLC Mode	BLC / HLC / DWDR
Scanning System	Progressive		WDR	DWDR
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s		Gain Control	AGC
Minimum Illumination	0.02Lux/F2.0, 30IRE, 0Lux IR on		Noise Reduction	2D
S/N Ratio	More than 65dB		White Balance	Auto / Manual
IR Distance	Up to 20m (66feet)		Smart IR	Auto / Manual
IR On/Off Control	Auto / Manual		Certifications	
IR LEDs Lens	12		Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4- UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Lens Type	Fixed lens / Fixed iris		Interface	
Mount Type	Board-in		Audio Interface	N/A
Focal Length	3.6mm (2.8mm, 6mm Optional)		Eelectrical	
Max Aperture	F2.0		Power Supply	12V DC ±25%
Angle of View	H: 80.8° (106°/51°)		Power Consumption	Max 2.8W (12V DC, IR on)
Focus Control	N/A		Environmental	
Close Focus Distance	800mm (500mm/1900mm) 31.5" (19.7"/74.8")		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
DORI Distance			Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90%
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 defines the criteria for Detect, Observe, Recognize and Identify respectively.			Ingress Protection & Vandal Resistance	NA
			Construction	
DORI		Casing	Plastic	
	Definition	Distance	Dimensions	Φ85.4mm×69.1mm (Φ3.36"×2.72")
Detect	25px/m (8px/ft)	3.6mm: 57m(187ft) 2.8mm:45m(149ft) 6mm: 86m(281ft)	Net Weight	0.11kg (0.24lb)
			Gross Weight	0.17kg (0.37lb)
Observe	63px/m (19px/ft)	3.6mm: 23m(75ft) 2.8mm:18m(59ft) 6mm:34m(113ft)		

3.6mm: 11m(37ft) 2.8mm:9m(30ft)

6mm: 17m(56ft)

3.6mm: 6m(19ft) 2.8mm:5m(15ft) 6mm: 9m(28ft)

125px/m

(38px/ft)

250ppm

(76px/ft)

Pan: 0° ~ 360° Tilt: 0° ~ 90°

Rotation: 0° ~ 360°

1080P (1920×1080)

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

Recognize

Identify

Video Resolution

Frame Rate

Pan / Tilt / Rotation

Pan/Tilt/Rotation

Lite Series | DH-HAC-HDW1220R

Ordering Information				
Туре	Part Number	Description		
	DH-HAC-HDW1220RP 2.8mm			
	DH-HAC-HDW1220RP 3.6mm	2MP HDCVI IR Eyeball Camera, PAL		
2MP Camera	DH-HAC-HDW1220RP 6mm			
ZIVIP Camera	DH-HAC-HDW1220RN 2.8mm	2MP HDCVI IR Eyeball Camera, NTSC		
	DH-HAC-HDW1220RN 3.6mm			
	DH-HAC-HDW1220RN 6mm			
	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)		
	PFA152-E	Pole mount (For use with PFA130-E junction box)		
	PFM820	UTC Controller		
Accessories	PFM800-E	Passive HDCVI Balun		
	PFM800-4MP	Passive HDCVI Balun		
	PFM801-4MP	Passive HDCVI Balun With Power		
	PFM321	12V 1A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter		

Accessories

Optional:



PFA130-E Junction box



PFA152-E Pole mount



PFM820 UTC Controller



PFM800-E Passive HDCVI Balun



PFM800-4MP Passive HDCVI Balun



PFM801-4MP Passive HDCVI Balun With Power





PFM320D-015 Power Adapter







