

# DH-HAC-HDW1220R-VF

2MP HDCVI IR Eyeball Camera





- · Max 30fps@1080P
- · HD and SD output switchable
- · 2.7-12mm vari-focal lens
- · 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-HDW1220R-VF

Gain Control

Noise Reduction

White Balance

Smart IR

AGC 2D

Auto / Manual

Auto / Manual

Technical Specification		Certifications	
Camera Image Sensor	1/2.9" CMOS	Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-201
_	1920(H)×1080(V), 2MP		UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels		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/F1.4, 0Lux IR on	Power Supply	12V DC ±25%
S/N Ratio	More than 65dB	Power Consumption	Max 4.2W (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% RH * Start up should be done at above -40°C (-40°F)
IR LEDs	20	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Lens		Ingress Protection &Vandal Resistance	IP67
Lens Type	Vari-focal lens / Fixed iris	Construction	
Mount Type	Board-in	Casing	Aluminium
Focal Length	2.7-12mm	Dimensions	Ф119mm×97.4mm (Ф4.69"×3.83")
Max Aperture	F1.4	Net Weight	0.56kg (1.23lb)
Angle of View	H: 102°~28°	Gross Weight	0.69kg (1.52lb)
Focus Control	Manual		
Close Focus Distance	200mm 7.87"		
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		

Ordering Information			
Туре	Part Number	Description	
2MP Camera	DH-HAC-HDW1220RP-VF	2MP HDCVI IR Eyeball Camera, PAL	
ZIVIP Calliela	DH-HAC-HDW1220RN-VF	2MP HDCVI IR Eyeball Camera, NTSC	
	PFA13B	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	
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# Dimensions (mm/inch) \$\int 119.2 \[ \times 4.69^\* \] \$\int 94.0 \[ \times 3.7^\* \] \$\int 4-\times 4.5 \[ \times 0.18^\* \]

# Accessories

# Optional:







PFA13B Junction box

PFB204W Wall mount

PFA152 Pole mount



PFM820 UTC Controller

Junction Mount	Pole Mount
PFA13B	PFB204W + PFA152
Wall Mount	
PFB204W	

