

# DH-HAC-HDW1220G

2MP HDCVI IR Eyeball Camera

## HDCVI



- · Max 30fps@1080P
- · HD and SD output swtichable
- · 3.6mm fixed lens (6mm optional)
- · Max. IR length 20m, 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-HDW1220G

Technical Specification		
Camera 	4/9 011 01 400	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
5/N Ratio	More than 65dB	Power Consumption
R Distance	Up to 20m (66feet)	Environmental
R On/Off Control	Auto / Manual	Operating Conditions
R LEDs	1	Storage Conditions
_ens		Ingress Protection &\ Resistance
ens Type	Fixed lens / Fixed iris	Construction
lount Type	Board-in	Casing
ocal Length	3.6mm (6mm Optional)	Dimensions
Лах Aperture	F2.0	Net Weight
ngle of View	H: 82.8° (51.2°)	Gross Weight
ocus Control	N/A	
lose Focus Distance	800mm (1900mm) 31.5" (74.8")	
Pan / Tilt / Rotation		
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 80° Rotation: 0° ~ 360°	
/ideo		
Resolution	1080P (1920×1080)	
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P	
/ideo 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	

Auto / Manual

Smart IR

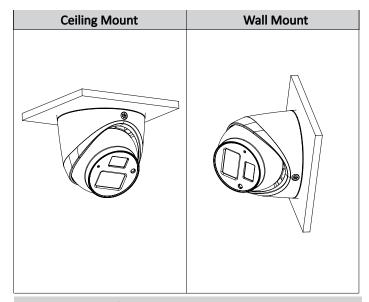
Certifications			
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)		
Interface			
Audio Interface	Built-in Mic		
Eelectrical			
Power Supply	12V DC ±25%		
Power Consumption	Max 2.9W (12V DC, IR on)		
Environmental			
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 $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH		
Ingress Protection &Vandal Resistance	IP67		
Construction			
Casing	Aluminium		
Dimensions	Φ62mm×62mm (Φ2.44"×2.44")		
Net Weight	0.16kg (0.35lb)		
Gross Weight	0.23kg (0.51lb)		

Ordering Information			
Туре	Part Number	Description	
2MP Camera	DH-HAC-HDW1220GP (3.6mm)	2MP HDCVI IR Eyeball Camera,	
	DH-HAC-HDW1220GP (6mm)	PAL	
	DH-HAC-HDW1220GN (3.6mm)	2MP HDCVI IR Eyeball Camera,	
	DH-HAC-HDW1220GN (6mm)	NTSC	
Accessories	PFM820	UTC Controller	
Accessories			

## Optional:



PFM820 UTC Controller



## Dimensions (mm/inch)

