

# DH-HAC-HDW1200M

2MP HDCVI IR Eyeball Camera





- \* The parameters and datasheets below can only be applied to 1200-S4 series.
- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, 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 motorized/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 XVR, 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 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 ±30% 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-HDW1200M

Technical Specification			Day/Night	Auto (ICR) / Manual			
Camera			OSD Menu	Multi-language			
Image Sensor	1/2.7" CMOS		BLC Mode	BLC / HLC / DWDR			
Effective Pixels	1920(H)×1080(V), 2MP		WDR	DWDR			
Scanning System	Progressive		Gain Control	AGC			
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s		Noise Reduction	2D			
Minimum Illumination	0.02Lux/F1.85, 30IRE, OL	ux IR on	White Balance	Auto / Manual			
S/N Ratio	More than 65dB		Smart IR	Smart IR Auto / Manual			
IR Distance	Up to 30m (98feet)		Certifications	Certifications			
IR On/Off Control	Auto / Manual		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)			
IR LEDs 12			Interface				
Lens Find loss (Find life							
Lens Type	Fixed lens / Fixed iris			Audio Interface N/A			
Mount Type	Board-in			Eelectrical			
Focal Length 3.6mm (2.8mm, 6mm Optional)			Power Supply	12V DC ±30%			
Max Aperture	F1.85		Power Consumption	Power Consumption Max 3.3W (12V DC, IR on)			
Angle of View	H: 87.5° (103°, 54.7°)		Environmental				
Focus Control	N/A		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)			
Close Focus Distance	500mm (900mm, 2000m 19.69'' (35.43", 78.74'')	m)	Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH			
DORI Distance			Ingress Protection & Vandal Resistance	IP67			
Note: The DORI distance is a "general proximity" of distance which makes it easy to			Construction	Construction			
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.		Casing	Aluminium				
,,	DORI		Dimensions	Ф93.4mm×79.4mm (Ф3.68"×3.13")			
	Definition	Distance	Net Weight	0.27kg (0.60lb)			
Detect	25px/m (8px/ft)	2.8mm: 37m(122ft) 3.6mm: 53m(175ft)	Gross Weight	0.34kg (0.75lb)			

2.8mm: 15m(49ft)

3.6mm: 21m(70ft)

6mm: 32m(105ft) 2.8mm: 8m(25ft)

3.6mm: 11m(35ft)

6mm: 16m(52ft) 2.8mm: 4m(12ft)

3.6mm: 5m(17ft) 6mm: 8m(26ft)

63px/m

(19px/ft)

125px/m

(38px/ft)

250ppm (76px/ft)

Pan: 0° ~ 360° Tilt: 0° ~ 78°

Rotation: 0° ~ 360°

1080P (1920×1080)

video output (Can switch)

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

1-channel BNC high definition video output / CVBS

Observe

Recognize

Identify

Video

Resolution

Frame Rate

Video Output

Pan / Tilt / Rotation

Pan/Tilt/Rotation

Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-HAC-HDW1200MP 2.8mm	2MP HDCVI IR Eyeball Camera, PAL				
	DH-HAC-HDW1200MP 3.6mm					
	DH-HAC-HDW1200MP 6mm					
	DH-HAC-HDW1200MN 2.8mm	2MP HDCVI IR Eyeball Camera, NTSC				
	DH-HAC-HDW1200MN 3.6mm					
	DH-HAC-HDW1200MN 6mm					
Accessories	PFA13A-E	Junction box (For use alone)				
	PFB204W	Wall mount (For use alone or with PFA152-E pole mount)				
	PFA152-E	Pole mount (For use with PFB204W wall mount)				
	PFM820	UTC Controller				
	PFM800-E	Passive HDCVI Balun				
	PFM800-4K	Passive Video Balun				
	PFM800B-4K	Passive Video Balun				
	PFM321	12V 1A Power Adapter				
	PFM320D-015	12V 1.5A Power Adapter				
	PFM300	12V 2A Power Adapter				

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Optional:



PFA13A-E Junction box



PFB204W

Wall mount

PFM800-E PFM800-4K Passive HDCVI Balun







PFM320D-015

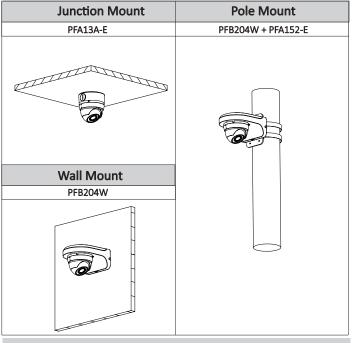


PFM800B-4K

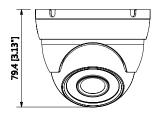
Passive Video Balun

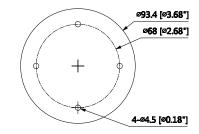
PFA152-E

Pole mount



# Dimensions (mm/inch)







12V 1A Power Adapter



Power Adapter



PFM300 Power Adapter



PFM820 UTC Controller

