

# DH-HAC-HDW1500EM-A

5MP HDCVI IR Eyeball Camera



- · Max. 20fps@5MP
- · Built-in mic
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 50m, Smart IR
- · IP67, DC12V















#### **System Overview**

multi-language OSD and HD/SD switchable output. Its structural flexibility most end users' existing HD/SD DVRs. and high cost-performance makes the camera an ideal choice for SMB solutions.

#### **Functions**

#### 4 Signals over 1 Coaxial Cable

cable simultaneously, i.e. video, audio\*, data and power. Dual-way data Italian, Japanese, Korean, Russian and Polish. 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**

without any loss. It supports up to 700m for 5MP HD video via coaxial cable, and up to 300m 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.

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**

Experience superior 5MP video and the simplicity of reusing existing The camera supports multiple video formats including HDCVI, CVBS and coaxial infrastructure with HDCVI. The Lite series 5MP HDCVI camera other two common HD analog formats in the market. The four formats can features a compact design and offers a high quality image with rich details be switched over through OSD menu or by PFM820 (UTC controller). This at a friendly price. It offers various vari-focal/fixed lens models with feature makes the camera to be compatible with not only HCVRs but also

#### 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 HDCVI technology supports 4 signals to be transmitted over 1 coaxia DSD menu, namely, Chinese, English, French, German, Spanish, Portuguese,

#### 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 HDCVI technology guarantees long-distance and real-time transmission amera 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-HDW1500EM-A

Technical Specification				Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Camera			Day/Night	Auto (ICR) / Manual	
Image Sensor	1/2.7" CMOS	1/2.7" CMOS		OSD Menu	Multi-language
Effective Pixels	2592(H)×1944(V), 5MP			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/F1.85, 30IRE, 0Lux IR on			Noise Reduction	2D
S/N Ratio	More than 65dB	More than 65dB		White Balance	Auto / Manual
IR Distance	Up to 50m (164feet)	Up to 50m (164feet)		Smart IR	Auto / Manual
IR On/Off Control	Auto / Manual	Auto / Manual		Certifications	
IR LEDs 1			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)	
Lens Type	Fixed lens / Fixed iris	Fixed lens / Fixed iris		Interface	
Mount Type	Board-in	Board-in		Audio Interface	Built-in mic
Focal Length 3.6mm (2.8mm, 6mm Optional)			Eelectrical		
Max Aperture	F1.85			Power Supply	12V DC ±30%
Angle of View	H: 77.5° (98°/49°)	H: 77.5° (98°/49°)		Power Consumption	Max. 4.2W (12V DC, IR on)
Focus Control	N/A	N/A		Environmental	, , ,
Close Focus Distance	1400mm (800mm/2800m 55" (32"/110")	1400mm (800mm/2800mm) 55" (32"/110")		Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH * 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 95% RH
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	IP67
				Construction	
	DORI	Distance		Casing	Aluminium
	Definition			Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")
Detect	25px/m (8px/ft)	2.8mm: 63m(207ft) 3.6mm: 80m(262ft) 6mm: 120m(394ft)		Net Weight	0.41kg (0.90lb)

6mm: 120m(394ft) 2.8mm: 25m(82ft)

3.6mm: 32m(105ft)

6mm: 48m(157ft) 2.8mm: 13m(43ft)

3.6mm: 16m(53ft)

6mm: 24m(79ft) 2.8mm: 6m(21ft)

3.6mm: 8m(26ft)

6mm: 12m(39ft)

OSD Menu	Multi-language			
BLC Mode	BLC / HLC / DWDR			
WDR	DWDR			
Gain Control	AGC			
Noise Reduction	2D			
White Balance	Auto / Manual			
Smart IR	Auto / Manual			
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 ±30%			
Power Consumption	Max. 4.2W (12V DC, IR on)			
Environmental				
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% 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 95% RH			
Ingress Protection & Vandal Resistance	IP67			
Construction				
Casing	Aluminium			
Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")			
Net Weight	0.41kg (0.90lb)			
Gross Weight	0.51kg (1.12lb)			

Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360°

63px/m

(19px/ft)

125px/m

(38px/ft)

250ppm

(76px/ft)

Observe

Recognize

Identify

Video

Pan / Tilt / Rotation

Pan/Tilt/Rotation

### Lite Series | DH-HAC-HDW1500EM-A

Ordering Information					
Туре	Part Number	Description			
5MP Camera	DH-HAC-HDW1500EMP-A 2.8mm				
	DH-HAC-HDW1500EMP-A 3.6mm	5MP HDCVI IR Eyeball Camera, PAL			
	DH-HAC-HDW1500EMP-A 6mm				
	DH-HAC-HDW1500EMN-A 2.8mm				
	DH-HAC-HDW1500EMN-A 3.6mm	5MP HDCVI IR Eyeball Camera, NTSC			
	DH-HAC-HDW1500EMN-A 6mm				
Accessories	PFA130-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)			
	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			
	PFM820	UTC Controller			

PFA130-E	PFB204W + PFA152-E			
Wall Mount				
PFB204W				
Dimensions (mm/inch)				
<b>T</b>	Ø106 [Ø4.17*]			

**Pole Mount** 

Junction Moant

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### **Accessories**

Optional:



PFA130-E Junction box PFB204W Wall mount PFM800-E Passive HDCVI Balun 93.7 [3.69"]

PFM800-4K PFM800B-4K PFM321
Passive Video Balun Passive Video Balun 12V 1A Power Adapter

 PFM320D-015
 PFM300
 PFM820

 Power Adapter
 12V 2A Power Adapter
 UTC Controller



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