

# DH-HAC-HDW1500SL

5MP HDCVI IR Eyeball Camera

**HDCVI**



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



## System Overview

Experience superior 5MP video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image with rich details 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 long-distance and real-time 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.

### 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 ±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.

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	2592(H)×1944(V), 5MP		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, 0Lux IR on		White Balance	Auto / Manual
S/N Ratio	More than 65dB		Smart IR	Auto / Manual
IR Distance	Up to 20m (66feet)		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			Audio Interface	N/A
Lens Type	Fixed lens / Fixed iris		Electrical	
Mount Type	Board-in		Power Supply	12V DC ±30%
Focal Length	3.6mm (2.8mm, 6mm Optional)		Power Consumption	Max. 3.6W (12V DC, IR on)
Max Aperture	F1.85		Environmental	
Angle of View	H: 77.5° (93°/49°)		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)
Focus Control	N/A		Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Close Focus Distance	1400mm (800mm/2800mm) 55" (31.5"/110")		Ingress Protection & Vandal Resistance	IP67
DORI Distance			Construction	
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.			Casing	Plastic
	DORI Definition	Distance	Dimensions	Φ97mm×79.3mm(Φ3.8"×3.1")
Detect	25px/m (8px/ft)	2.8mm: 56m(184ft) 3.6mm: 80m(262ft) 6mm: 120m(394ft)	Net Weight	0.19kg (0.42lb)
Observe	63px/m (19px/ft)	2.8mm: 22m(72ft) 3.6mm: 32m(105ft) 6mm: 48m(157ft)	Gross Weight	0.27kg (0.60lb)
Recognize	125px/m (38px/ft)	2.8mm: 11m(36ft) 3.6mm: 16m(53ft) 6mm: 24m(79ft)		
Identify	250ppm (76px/ft)	2.8mm: 6m(21ft) 3.6mm: 8m(26ft) 6mm: 12m(39ft)		
Pan / Tilt / Rotation				
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°			
Video				
Resolution	5MP (2592×1944)			
Frame Rate	20fps@5MP, 25/30fps@4MP, 25/30fps@1080P			
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)			

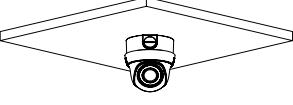
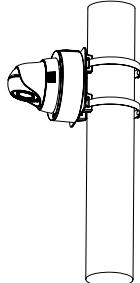
**Ordering Information**

Type	Part Number	Description
5MP Camera	DH-HAC-HDW1500SLP 2.8mm	5MP HDCVI IR Eyeball Camera, PAL
	DH-HAC-HDW1500SLP 3.6mm	
	DH-HAC-HDW1500SLP 6mm	
	DH-HAC-HDW1500SLN 2.8mm	5MP HDCVI IR Eyeball Camera, NTSC
	DH-HAC-HDW1500SLN 3.6mm	
	DH-HAC-HDW1500SLN 6mm	
Accessories	PFA12A	Plastic Junction Box(For use alone)
	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFA130-E junction box)
	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

**Accessories**

Optional:

PFA130-E  
Junction boxPFA130-E  
Junction boxPFA152-E  
Pole mountPFM800-E  
Passive HDCVI BalunPFM800-4K  
Passive Video BalunPFM800B-4K  
Passive Video BalunPFM321  
12V 1A Power AdapterPFM320D-015  
Power AdapterPFM300  
12V 2A Power AdapterPFM820  
UTC Controller

Junction Mount	Pole Mount
PFBA135	PFBA135+PFA152-E
	

**Dimensions (mm/inch)**