

# DH-HAC-HDW1549X-IL-A-PRO

5MP WizColor HDCVI Fixed-focal Eyeball Camera



#### Series Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

#### **Functions**

#### WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

### AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

- \* The parameters and datasheets below can only be applied to 1549 series.
- \* In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version
- · Max. 25 fps@5MP (16:9 video output)
- ΔI-ISP
- · Distortion Correction.
- · Smart Dual Light.
- · Smart Light+.
- · 50 m illumination distance
- · Super Adapt, 130 dB true WDR, 3D NR
- · Built-in Dual Mic
- Quick-to-install eyeball saves installation time.
- 3.6 mm fixed lens (2.8 mm optional)
- CVI/CVBS/AHD/TVI switchable
- · IP67, 12 VDC















# **Smart Dual Light**

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

# **Distortion Correction**

With advanced distortion correction algorithm, Dahua Distortion Correction corrects the image distortion in both horizontal and vertical directions to be consistent with the actual situation.

#### Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

NTSC: 960H

Technical Specification							Resolution	5M (2880 × 1620); 4M (2560 × 1440); 960H (960 × 576/960 × 480); TVI 5M 16:9 (2960 × 1665)
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		5 MP CMOS					WDR	130 dB
Max. Resolution		2880 (H) × 1620 (V)						Auto
Scanning System		Progressive					White Balance	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s					Gain Control	Auto
		NTSC: 1/30 s-1/100,000 s					Noise Reduction	3D NR
Min. Illumination		0.0001 lux@F1.0 (Color, 30 IRE) 0.00001 lux@F1.0 (B/W, 30 IRE)					Motion Detection	Yes (It needs to be controlled through the XVR)
		0 lux (Illuminator on)					Illumination Mode	Smart IR&WL WL Mode; IR Mode
S/N Ratio		>65 dB					Mirror	Yes (It needs to be controlled through the XVR)
Illumination Distance		IR: 50 m (164.04 ft) Warm light: 50 m (164.04 ft)					Privacy Masking	Yes (It needs to be controlled through the XVR)
Illuminator On/Off Control		Auto/Manual					Certification	
Illuminator Number		4 (Multi-core light)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Angle Adjustment		Pan: 0°–360°					Audio	
		Tilt: 0°–78° Rotation: 0°–360°					Built-in Mic	Yes, built-in dual Mic
Lens							Camera Audio	CVI
Lens Type		Fixed-focal					Pick-up Distance	12 m (39.37 ft)
Lens Mount		M12					Port	
Focal Length		2.8 mm; 3.6 mm					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Max. Aperture		F1.0					Power	
Field of View		2.8 mm: H: 111°; V: 58.5°; D: 136.3° 3.6 mm: H: 91.1°; V: 48.7°; D: 107.9°					Power Supply	12 VDC (±30%)
Iris Control		Fixed					Power Consumption	Max 6.1 W (12 VDC, LED on)
Clasa Fasus Distance		2.8 mm: 1.4 m (4.59 ft)					Environment	
Close Focus Distance		3.6 mm: 2.0 m (6.56 ft)					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Operating Humidity	<95% (RH), non-condensing
	2.8 mm	63.8 m ( 209.32 ft)	25.5 m ( 83.66 ft)	12.8 m ( 41.99 ft)	6.4 m ( 21.00 ft)		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.6	77.8 m	31.1 m	15.6 m	7.8 m		Storage Humidity	<95% (RH), non-condensing
	3.6 mm	( 255.25 ft)	( 102.03 ft)	( 51.18 ft)	( 25.59 ft)		Protection	IP67
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation						Anti-corrosion Level	Basic Protection
							Structure	
							Casing Material	Dome (metal + plastic) + plastic enclosure
		ssioning manual/project design tool.					Product Dimensions	Φ109.9 mm × 102.2 mm (Φ4.33" × 4.02")
Video							Net Weight	0.33 kg (0.73 lb)
		CVI: PAL: 5M@25 fps; 5M@12.5 fps;					Gross Weight	0.45 kg (0.99 lb)
Video Frame Rate		PAL: 5M@25 fps; 5M@10 fps; NTSC: 5M@25 fps; 5M@10 fps; AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 5M@20 fps NTSC: 5M@20 fps CVBS: PAL: 960H					Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information						
Туре	Model	Description				
HDCVI CAMFRA	DH-HAC-HDW1549XN-IL-A- PRO	5MP WizColor HDCVI Fixed- focal Eyeball Camera,NTSC				
TIDEVI CAWIENA	DH-HAC-HDW1549XP-IL-A- PRO	5MP WizColor HDCVI Fixed- focal Eyeball Camera,PAL				
	DH-PFB220C	Ceiling Mount Bracket				
	DH-PFA109	Mount Adapter				
	DH-PFA151	Corner Mount Bracket				
	DH-PFB305W	Wall Mount Bracket				
	DH-PFA150	Pole Mount Bracket				
	DH-PFA156	Pole Mount Bracket				
Accessories (Optional)	DH-PFB2203W	Wall Mount Bracket				
	DH-PFA13G	Junction Box				
	DH-PFM800-4K	1 Channel Passive HDCVI Balun				
	DH-PFM321-EN	DC12V1A power adapter				
	DH-PFM320D-EN	DC12V2A power adapter				
	PFM904	Integrated Mount Tester				

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# Optional:



DH-PFA109 Mount Adapter



Corner Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFA156

Pole Mount Bracket

DH-PFA13G

Junction Box

DH-PFB305W Wall Mount Bracket





DH-PFM320D-EN DC12V2A power adapter

DH-PFA150

Pole Mount Bracket

DH-PFB2203W

Wall Mount Bracket



DH-PFM321-EN DC12V1A power adapter

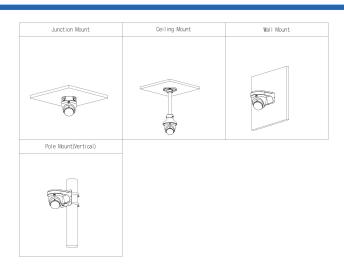


DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester

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# Dimensions (mm[inch])

mm [inch]

