

DH-HAC-HDW1519X-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.

Built-in Mic

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

- * The parameters and datasheets below can only be applied to 1519 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@5 MP (16:9 video output).
- AI-ISP.
- Smart Light+.
- Smart Dual Light.
- 50 m illumination distance.
- 3D NR.
- 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.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

Technical Specification	
Camera	
Image Sensor	5 MP CMOS
Max. Resolution	2880 (H) × 1620 (V)
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s
Min. Illumination	0.0002 lux@F1.6 (Color, 30 IRE) 0.00002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>65 dB
Illumination Distance	IR: 50 m (164.04 ft);Warm light: 50 m (164.04 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	4 (Multi-core light)
Angle Adjustment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: H: 112°; V: 61°; D: 132.4° 3.6 mm: H: 89.1°; V: 48.5°; D: 104°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.5 m (4.92 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	61.2 m (200.79 ft)	24.5 m (80.38 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)
	3.6 mm	77.6 m (254.59 ft)	31.0 m (101.71 ft)	15.5 m (50.85 ft)	7.8 m (25.59 ft)
	*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 and commissioning manual/project design tool.				

Video	
Video Frame Rate	CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 5M@20 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 5M 16:9@20 fps NTSC: 5M 16:9@20 fps CVBS: PAL: 960H

Video Frame Rate	NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960 H (960 × 576/960 × 480); TVI 5M 16:9 (2960 × 1665)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; WDR; HLC-Pro
WDR	DWDR
White Balance	Auto
Gain Control	Auto/Manual
Noise Reduction	3D NR
Illumination Mode	Smart IR&WL (CVI, TVI); WL Mode; IR Mode
Mirror	Yes

Certification	
Certifications	CE-LVD: EN 62368-1 CE-EMC: EN 55032; EN 55035 FCC: 47 CFR FCC Part 15, Subpart B

Audio	
Built-in Mic	Yes
Camera Audio	CVI; TVI
Pick-up Distance	8 m (26.25 ft)

Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)

Power	
Power Supply	12 VDC (±30%) (It is recommended to use a power adapter to supply the power for one camera)
Power Consumption	Max 5.2 W (12 VDC, LED on)

Environment	
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Protection	IP67
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.

Structure	
Casing Material	Dome (metal + plastic) + plastic enclosure
Product Dimensions	Φ109.9 mm × 102.2 mm (Φ4.33" × 4.02")
Net Weight	0.33 kg (0.73 lb)
Gross Weight	0.45 kg (0.99 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information

Type	Model	Description
HDCVI CAMERA	DH-HAC-HDW1519XN-IL-A-PRO	5MP WizColor HDCVI Fixed-focal Eyeball Camera,NTSC
	DH-HAC-HDW1519XP-IL-A-PRO	5MP WizColor HDCVI Fixed-focal Eyeball Camera,PAL
Accessories (Optional)	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
	DH-PFB2203W	Wall Mount Bracket
	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM320-010EN	DC12V 1A Power Adapter
	DH-PFM325D-1210EN	DC12V 1A Power Adapter
	DH-PFM325D-1215EN	DC12V 1.5A Power Adapter
	DH-PFM320-020EN	DC12V 2A Power Adapter
	DH-PFM320D-EN	DC12V 2A Power Adapter
	PFM904	Integrated Mount Tester

Accessories

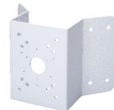
Optional:



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



DH-PFB2203W
Wall Mount Bracket



DH-PFA130-E
Water-proof Junction Box



G3416GW
G3/4" Water Joint

Optional:



DH-PFM800-4K
1 Channel Passive HDCVI
Balun



DH-PFM320-010EN
DC12V 1A Power Adapter



DH-PFM325D-1210EN
DC12V 1A Power Adapter



DH-PFM325D-1215EN
DC12V 1.5A Power
Adapter



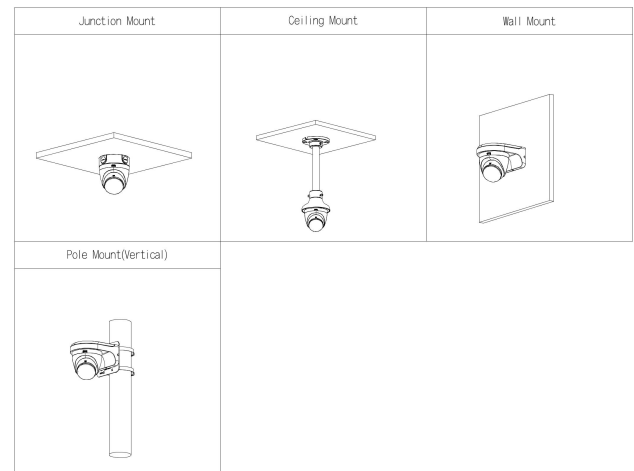
DH-PFM320-020EN
DC12V 2A Power Adapter



DH-PFM320D-EN
DC12V 2A Power Adapter



PFM904
Integrated Mount Tester



Dimensions (mm[inch])

