DH-HAC-HFW1219SM-IL-A-PRO

2MP WizColor HDCVI Fixed-focal Bullet Camera



* The parameters and datasheets below can only be applied to 1219-IL series.
* In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

- Max 30 fps@1080p.
- AI-ISP.
- Smart Dual Light.
- Smart Light+.
- 30 m illumination distance.
- Super Adapt, DWDR, 3D NR.
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



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.

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

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.

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.

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	2 MP CMOS
Max. Resolution	1920 (H) × 1080 (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: 30 m (98.43 ft) Warm light: 30 m (98.43 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (Multi-core light)
Angle Adjustment	Pan：0°–360° Tilt：0°–90° 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: 103.7°; V: 56.8°; D: 121.4° 3.6 mm: H: 82.7°; V: 45°; D: 96.4°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.1 m (3.61 ft)

DORI Distance

Lens	Detect	Observe	Recognize	Identify
2.8 mm	43.7 m (143.37 ft)	17.5 m (57.41 ft)	8.7 m (28.54 ft)	4.4 m (14.44 ft)
3.6 mm	55.6 m (182.41 ft)	22.2 m (72.83 ft)	11.1 m (36.42 ft)	5.6 m (18.37 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: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H@50 fps NTSC: 960H@60 fps
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; WDR
WDR	DWDR
White Balance	Auto
Gain Control	Auto
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

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

Power

Power Supply	12 VDC (±30%) (It is recommended to use a power adapter to supply the power for one camera)
Power Consumption	Max 3.2 W

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.

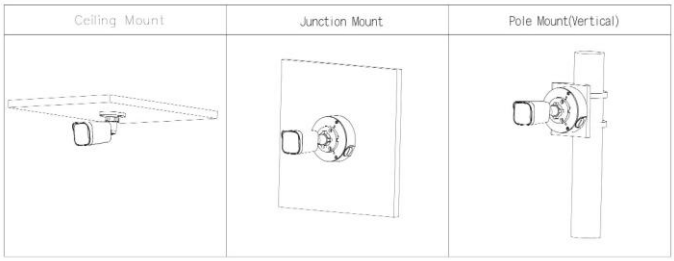
Structure

Casing Material	Metal
Product Dimensions	168.9 mm × 63.3 mm × 65.4 mm (6.65" × 2.49" × 2.57") (L × W × H)
Net Weight	0.35 kg (0.77 lb)
Gross Weight	0.46 kg (1.01 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information

Type	Model	Description
HDCVI CAMERA	DH-HAC-HFW1219SMN-IL-A-PRO	2MP WizColor HDCVI Fixed-focal Bullet Camera,NTSC
	DH-HAC-HFW1219SMP-IL-A-PRO	2MP WizColor HDCVI Fixed-focal Bullet Camera,PAL

Type	Model	Description
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box
	DH-PFA151	Corner Mount Bracket
	G3416GW	G3/4" Water Joint
	DH-PFA157	Pole Mount Bracket
	DH-PFM800-E	1 Channel Passive HDCVI Balun
	DH-PFM320-010EN	Power Adapter
	DH-PFM325D-1210EN	DC12V 1A Power Adapter
	DH-PFM325D-1215EN	DC12V 1.5A Power Adapter
	DH-PFM320-020EN	Power Adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester



Accessories

Optional:



DH-PFA130-E
Water-proof Junction Box



DH-PFA151
Corner Mount Bracket



G3416GW
G3/4" Water Joint



DH-PFA157
Pole Mount Bracket



DH-PFM800-E
1 Channel Passive HDCVI Balun



DH-PFM320-010EN
Power Adapter



DH-PFM325D-1210EN
DC12V 1A Power Adapter



DH-PFM325D-1215EN
DC12V 1.5A Power Adapter



DH-PFM320-020EN
Power Adapter

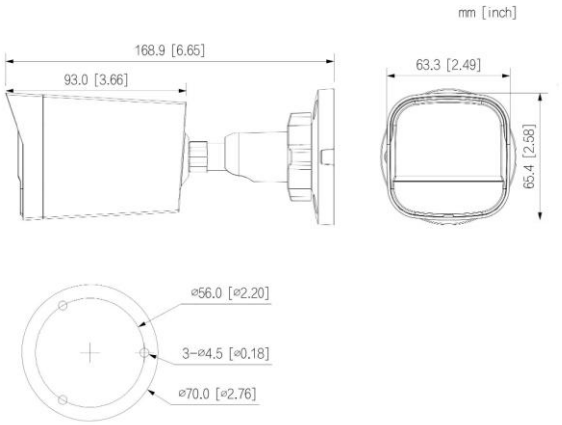


DH-PFM320D-EN
DC12V2A power adapter



PFM904
Integrated Mount Tester

Dimensions (mm[inch])



Rev 002.000 ©2026 Dahua. All rights reserved. Design and specifications are subject to change without notice.
Pictures in the document are for reference only, and the actual product shall prevail.