

5MP HDCVI Fixed Eyeball Camera

2.8 mm IR Eyeball Camera



- 1/2.7-in. 5 MP Progressive-scan CMOS Sensor
- 5 MP at 20 fps Maximum Resolution
- 2.8 mm Fixed Lens
- HD or SD Output, Switchable
- Maximum IR Length 30 m (98 ft), Smart IR
- IP67 Ingress Protection
- Five-year Warranty*













System Overview

The 5 MP HDCVI camera leverages existing coax infrastructures to deliver forensic-level images seamlessly and over long distances. The camera uses next-generation ISP chip technology developed by Dahua to deliver stunning video and broadcast-quality audio. This home-grown ISP features the latest image processing algorithms and is optimized for surveillance camera operations. With total control of the ISP features and production, Dahua can offer the latest security systems at a cost-effective price.

Functions

Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits video, audio and data over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms.

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Smart IF

The camera is designed with microcrystalline LED IR illumination for low-light performance. Smart IR is a technology to ensure brightness uniformity in black and white images under low illumination. Dahua's unique Smart IR adjusts to the intensity of the 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.

Multiple-format Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or the switch located on the video output cable, making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs.

Environmental

With a built-in heater and a temperature range of -40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F), the cameras are designed for extreme temperature environments. The cameras, subjected to rigorous dust and water immersion tests, are certified to the IP67 rating making them suitable for demanding outdoor applications.

Technical Specification Camera Image Sensor 1/2.7-in. CMOS **Effective Pixels** 2592 (H) x 1944 (V), 5 MP Scanning System Progressive Electronic Shutter Speed 1/30 s to 1/100000 s Color: 0.02 Lux at F1.85 (30 IRE) Minimum Illumination 0 Lux with IR on S/N Ratio More than 65 dB IR Distance Up to 30 m (98.04 ft) IR On/Off Control Auto, Manual IR LEDs 12 Lens Fixed Lens / Fixed Iris Lens Type Board-in Mount Type Focal Length 2.8 mm Max Aperture F1.85 Horizontal Angle of View 103° 900 mm (35.43 in.) Close Focus Distance DORI² Distance Detect Observe Recognize Identify (19 ppf) (76 ppf) (8 ppf) (38 ppf) 63 m (207 ft) 25 m (82 ft) 13 m (43 ft) 6 m (20 ft) Installation Angle Pan: 0° to 360°

Tilt: 0° to 90°

Rotation: 0° to 360°

Range

Video

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Resolution ¹	5 MP (2592 x 1944	4)
Frame Rate	5 MP at 20 fps, 4 MP at 30 fps, 1080p at 30 fps	
Video Output	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS, AHD or TVI Channel, switchable	
Video Transmission ³	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4 MP: 500 m (1640.42 ft)
	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 4 MP: 700 m (2296.59 ft)
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4 MP: 300 m (984.25 ft)
Day/Night	Auto (ICR), Manual	
OSD Menu	Multi-language	
BLC Mode	BLC, HLC, DWDR	
WDR	Digital WDR	
Gain Control	AGC	
Noise Reduction	2D	
White Balance	Auto, Manual	
	Auto, Manual	

Certifications

Safety	EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014

Electrical

Power Supply	12 VDC ±30%
Power Consumption	Maximum 3.6 W (12 VDC with IR on)

Environmental

Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)
Storage Conditions	—40° C to +60° C (–40° F to +140° F), Less than 95% RH
Ingress Protection	IP67

Construction

Casing	Aluminium
Dimensions	ø93.40 mm × 79.40 mm (ø3.68 in. x 3.13 in.)
Net Weight	0.28 kg (0.62 lb)
Gross Weight	0.38 kg (0.84 lb)

The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62-676-4, the standard that defines the criteria for the Detect, Observe, Recognize and

Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Lite Series | A511K02

Ordering Information			
Туре	Part Number	Description	
5 MP HDCVI Camera	A511K02	5 MP HDCVI 2.8 mm Eyeball Camera, Smart IR	
Accessories, optional	PFA13A-E	Junction Box (For use alone)	
	PFA152-E	Pole Mount (For use with PFB204W wall mount)	
	PFB204W	Wall Mount (For use alone or with PFA152-E pole mount)	
	DH-PFM320D-015	12 VDC, 1 A Power Adapter	
	DH-PFM321D-US	12 VDC, 1 A Power Adapter	
	DH-PFM800-4K	4K Passive HDCVI Balun	

Camera Accessories

Optional:



PFA13A-E Junction Box



PFB204W Wall Mount



PFA152-E Pole Mount



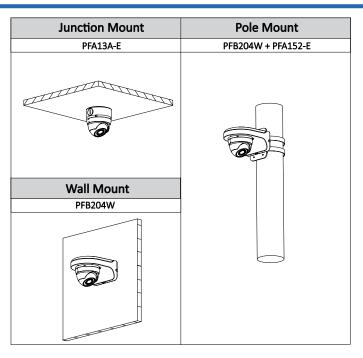
DH-PFM320D-015 12 VDC, 2 A Power Adapter



DH-PFM321D-US 12 VDC, 1 A Power Adapter



DH-PFM800-4K 4K HDCVI Balun



Dimensions (mm/in.) - 1080p HDCVI Camera

