

4MP E-VU Network Eyeball Camera (2.8 mm)

Entry-level Viewing IR Camera with Motion Detection







System Overview

The Dahua 4MP Entry-level Viewing (E-VU) Camera Series offers high-resolution video in a compact and accessible package. The camera feeatures Smart H.265+ video compression, reducing bandwidth and storage requirements without sacrificing video quality. The camera's elegant blend of aesthetics combined with range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Smart IR Illumination

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high-performance in extreme low-light environments up to 30 m (98.43 ft).

- 1/3-in. 4MP Progressive-scan CMOS Sensor
- Dual Stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codecs
- 4MP at 30 fps Maximum Resolution, 2.8 mm Fixed Lens
- DWDR and Day/Night (ICR)
- Maximum IR LED Length 30 m (98.43 ft) with Smart IR
- Motion Detection
- ArcticPro Series Camera Operational down to -40 °C (-40 °F)
- IP67 Ingress Protection
- Five-year Warranty*













ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components with a waterproof enclosure to ensure flawless operation in temperatures as low as -40°F (-40°C) without the need for an internal heater. The lack of a heater reduces the camera's power consumption and saves operating costs. For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

Environmental

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Camera						Ethernet		RJ-45 (10/100 Base-T)	
Image Sensor		1/3-in. 4MP Progressive-scan CMOS				Protocol		IPv4, IPv6, HTTP, TCP, UDP, ARP, RTIP, RTSP, SMT FTIP, DHCP, DNS, DDNS, NTP, Multicast	
Effective Pixels		2560 (H) × 1440 (V)				Interopera	ability	ONVIF (Profile S,T), CGI, P2P, Milestone, SDK, AF	
RAM/ROM		64 MB / 16 MB				Max. User		6 (Total Bandwidth: 48 MB)	
Scanning System		Progressive				Edge Store		FTP	
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s				Web View		IE, Chrome, Firefox	
Minimum Illumination		Color, 30 IRE: 0.03 lux at F2.0 B/W, 30 IRE: 0.003 lux at F2.0				Managem	nent Software	SmartPSS Lite, DMSS iOS, Android	
		0 lux (Illuminator On)				modile of	ocrating oystem	Video Encryption Configuration Encryption, Dige	
S/N Ratio		> 56 dB				Cybersecurity	WSSE, Account Lockout, Security Logs, Generat and Importing X.509 Certification, HTTPS, Trust Boot, Trusted Execution, Trusted Upgrade		
IR Distance		Distance up to 30.0 m (98.43 ft)							
IR On/Off Control		Auto, Manual						Boot, Trusted Exception, Trusted Opgrade	
IR LEDs		One (1)				Certifica	Certifications		
_ens						Safety		EN 62368-1	
Lens Type Iris Type		Fixed-focal				Electroma (EMC)	agnetic Compatibility	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/3	
Mount Type		M12				Electric	Electrical		
Focal Length		M12 2.8 mm				Power Sur	Power Supply 12 VDC or PoE (802.3af)		
Maximum Aperture		2.8 mm F2.0				. 01101 04	·	Basic: 1.6 W (12 VDC), 2.4 W (PoE)	
Field of View		Horizontal: 90° Vertical: 50° Diagonal: 107°				Power Co	nsumption	Maximum (ICR + H.265 + IR Intensity): 3.6 W (1 VDC), 4.7 W (PoE)	
Close Focus Distance		1.0 m (3.28 ft)				Environ	Environmental		
DORI¹ Distance		Detect	Observe	Recognize	Identify 6.8 m		Conditions	-40°C to +60°C (-40°F to +140°F), Less than or equal to 95% RH	
		68.0 m 27.2 m (223.10 ft) (89.24 ft)		(44.62 ft)	(22.31 ft)	Storage Co	onditions	-40°C to +60°C (-40°F to +140°F)	
Pan/Tilt/Rotation						Ingress Pr		IP67	
Range		Pan: 0° to 355 Tilt: 0° to 78°				Constru	ıction		
		Rotation: 0° to 355°				Casing		Metal	
Video						Dimension	ns	85.6 mm x 94.0mm (3.4 in. x 3.7 in.)	
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG				Net Weigh	nt	0.32 kg (0.71 lb)	
Streaming Capability		Two (2) Streams				Gross Wei	ight	0.43 kg (0.95 lb)	
Resolution	, ,	4MP (2560 × 1	1440), 3MP (2 (1280 × 960),	304 × 1296), 10 720p (1280 x 7 352 x 240)		Intellige	ent Video Syster		
Frame Rate	Main Stream	2560 × 1440 a	at 1 to 30 fps	,		Standard	Features	 Tampering with the camera. Error sending or receiving data over the networ Unauthorized access to the camera. 	
Sub Stream		704 × 480 at 1 to 30 fps				Motion		An object moves through any part of the scene.	
Bit Rate Control Bit Rate		CBR/VBR H.264: 32 kpbs to 4096 Kbps							
Day/Night		H.265: 12 kpbs to 4096 Kbps							
Backlight		Auto (ICR), Color, B/W BLC, HLC, DWDR							
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom							
Gain Control		Auto, Gain Priority, Shutter Priority, Manual							
Noise Reduction		3D DNR							
Motion Detection		Off, On (4 Zones, Rectangle)							
Region of Interest		Off, On (4 Zones)							
Smart IR		Support							
Image Rotation		0°, 180° (0°by defaultr)							
Mirror		Off, On							
Privacy Masking		Off, On (4 Are	as)			4 Th. DOD: 1	istance is a second of the	a ganaral available for a sea-Stanley Co. 1. 1. 1. 1.	
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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 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

Lite Series | N41CJ02

Ordering Inform	nation		
Туре	Part Number	Description	
4MP Camera	N41CJ02	4MP E-VU IR Fixed-focal Eyeball Network Camera	
	DH-PFA13A-E	Junction Box	
Accessories,	PFA130-E Waterproof Junction	Waterproof Junction Box	
optional	PFB204W	Wall Mount Bracket	
	PFA152-E	Pole Mount	

Dimensions mm [in.] Ø94 [Ø3.7] Ø68.5 [Ø2.7] 85.6 [3.37] Ø4.5 [Ø0.18]

Accessories (Optional)









DH-PFA13A-E Junction Box

PFA130-E Waterproof Junction Box

PFB204W Wall Mount Bracket

PFA152-E Pole Mount

Ceiling Mount	Wall Mount	Pole Mount (Vertical)	
DH-PFA13A-E or PFA130-E	PFB204W	PFB204W + PFA152-E	
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