

8MP E-VU Network Eyeball Camera (2.8 mm)

Entry-level Viewing IR Camera with Motion Detection





• Smart H.265+ and Smart H.264+ Dual Codecs

• 1/2.7-in. 8MP Progressive-scan CMOS Sensor

- 8MP at 15 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
- Built-in Microphone
- Motion Detection
- ArcticPro Series Camera Operational down to -40 °C (-40 °F)
- IP67 Ingress Protection
- Five-year Warranty*













System Overview

The Dahua 8MP 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)

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.

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er Speed	3840 (H) × 21 256 MB / 16 M Progressive		can CMOS		
er Speed	256 MB / 16 N	60 (V)			
er Speed	Progressive		3840 (H) × 2160 (V)		
er Speed		256 MB / 16 MB			
·	A	Progressive			
nation	Auto, Manual; 1/3 s to 1/100000 s				
	Color, 30 IRE: 0.04 lux at F2.0 B/W, 30 IRE: 0.004 lux at F2.0 0 lux (Illuminator On)				
	> 56 dB				
	Distance up to 30.0 m (98.43 ft)				
ol	Auto, Manual				
	One (1)				
	Fixed-focal				
	Fixed				
	M12				
	2.8 mm				
ture	F2.0				
	Horizontal: 105° Vertical: 56° Diagonal: 125°				
ance	1.0 m (3.28 ft)				
	74.7 m (245.08 ft)	Observe 29.9 m (98.10 ft)	Recognize 14.9 m (48.88 ft)	7.5 m (24.61 ft)	
tation	(= :=:== ::)	(=====	((=,	
	Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°				
	Smart H.265+, H.265, Smart H.264+, H.264, H.264B,				
Compression Streaming Capability		MJPEG Two (2) Streams			
Sincy	Two (2) Streams 3840 × 2160, 3072 × 2048, 3072 ×1728, 2592 × 1944, 2688 × 1520, 3MP (2048 × 1536); 2304 × 1296, 1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720) D1 (704 × 480), VGA (640 × 480), CIF (352 × 240)				
Main Stream	3840 × 2160 a	at 1 to 15 fps; :	2688 x 1520 at	1 to 30 fps	
Sub Stream	704 × 480 at 3	l to 15 fps			
Bit Rate Control		CBR/VBR			
	H.264: 32 kpbs to 8192 Kbps H.265: 12 kpbs to 8192 Kbps				
	Auto (ICR), Color, B/W				
Day/Night Backlight		BLC, HLC, DWDR			
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional			
Gain Control Noise Reduction		3D DNR			
Motion Detection					
Region of Interest					
Smart IR					
Image Rotation		0°, 90°, 180°, 270° (Supports 90°, 270° with 2688 x			
Mirror		on or lower)			
	Off, On				
	Main Stream Sub Stream	Fixed M12 2.8 mm ture F2.0 Horizontal: 10 Vertical: 56° Diagonal: 125 Fance 1.0 m (3.28 ft) Detect 74.7 m (245.08 ft) tation Pan: 0° to 360 Tilt: 0° to 78° Rotation: 0° to Smart H.265+ MJPEG bility Two (2) Streat 3840 × 2160, 2688 × 1520, (1920 × 1080) D1 (704 × 480 D1 (704 × 480 D1 (704 × 480 Auto, (1CR), Co BLC, HLC, DW Auto, Natural, Custom Auto, Gain Pri 3D DNR On Off, On (4 Zor Support 0°, 90°, 180°,	Fixed M12 2.8 mm ture F2.0 Horizontal: 105° Vertical: 56° Diagonal: 125° lance 1.0 m (3.28 ft) Detect 74.7 m 29.9 m (245.08 ft) (98.10 ft) tation Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360° Smart H.265+, H.265, Smart MJPEG bility Two (2) Streams 3840 × 2160, 3072 × 2048, 32688 × 1520, 3MP (2048 × 161920 × 1080), 1.3MP (1280 D1 (704 × 480), VGA (640 × 480), VGA (640 × 480) × VGA (640 × 480), VGA (640 × 48	Fixed M12 2.8 mm ture F2.0 Horizontal: 105° Vertical: 56° Diagonal: 125° tance 1.0 m (3.28 ft) Petect 74.7 m (245.08 ft) Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360° Smart H.265+, H.265, Smart H.264+, H.264, MJPEG bility Two (2) Streams 3840 × 2160, 3072 × 2048, 3072 × 1728, 25 2688 × 1520, 3MP (2048 × 1536); 2304 × 1: (1920 × 1080), 1.3MP (1280 × 960), 720p (2) D1 (704 × 480), VGA (640 × 480), CIF (352 × 364) Sub Stream 3840 × 2160 at 1 to 15 fps; 2688 x 1520 at 500 stream 3840 × 2160 at 1 to 15 fps; 2688 x 1520 at 500 stream 3840 × 2160 at 1 to 15 fps; 2688 x 1520 at 500 stream 3840 × 2160 at 1 to 15 fps; 2688 x 1520 at 500 stream 3840 × 2160 at 1 to 15 fps; 2688 x 1520 at 500 stream 3840 × 2160 at 1 to 15 fps; 2688 x 1520 at 500 stream 704 × 480 at 1 to 15 fps CBR/VBR H.264: 32 kpbs to 8192 kbps H.265: 12 kpbs to 8192 kbps Auto (ICR), Color, B/W BLC, HLC, DWDR Auto, Natural, Street Lamp, Outdoor, Manucustom Auto, Gain Priority, Shutter Priority, Manual 500 stream Off, On (4 Zones, Rectangle) Off, On (4 Zones, Rectangle) Support 0°, 90°, 180°, 270° (Supports 90°, 270° with	

Network				
Ethernet	RJ-45 (10/100 Base-T)			
Protocol	IPv4, IPv6, HTTP, TCP, UDP, ARP, RTIP, RTSP, SMTIP, FTIP, DHCP, DNS, DDNS, NTP, Multicast			
Interoperability	ONVIF (Profile S, T), CGI, P2P, Milestone, Genetec, SDK, API			
Max. User Access	6 (Total Bandwidth: 48 MB)			
Edge Storage	FTP			
Web Viewer	IE, Chrome, Firefox			
Management Software	DMSS			
Mobile Operating System	iOS, Android			
Cybersecurity	Video Encryption Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade			
Audio				
Compression	G.711A, G.711Mu, G.726, PCM			
Input	Built-in Microphone			
Certifications				
Safety	EN 62368-1			
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU			
Electrical				
Power Supply	12 VDC or PoE (802.3af)			
Power Consumption	Basic: 2.3 W (12 VDC), 3.1 W (PoE) Maximum (ICR + H.265 + Maximum Resolution + Main Stream + DWDR + IR Intensity): 4.6 W (12 VDC), 5.6 W (PoE)			
Environmental				
Operating Conditions	-40° C to +55°C (-40° F to +131°F), Less than or equal to 95% RH			
Storage Conditions	-40°C to +55°C (-40°F to +131°F),			
Ingress Protection	IP67			
Construction				
Casing	Metal			
Dimensions	85.6 mm x 94.0mm (3.4 in. x 3.7 in.)			
Net Weight	0.32 kg (0.71 lb)			
Gross Weight	0.43 kg (0.95 lb)			
Intelligent Video System	Functions			
Standard Features	 Tampering with the camera. Error sending or receiving data over the network. Unauthorized access to the camera. 			
Motion	An object moves through any part of the scene.			

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 | N81CJ02

Ordering Information					
Туре	Part Number	Description			
Camera	N81CJ02	8MP E-VU IR Fixed-focal Eyeball Network Camera			
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 PFA204W PFA204W + PFA152-E

Accessories (Optional)



Junction Box





PFA130-E

Waterproof Junction

Box





PFB204W Wall Mount Bracket

PFA152-E Pole Mount

Dimensions



