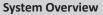


8MP E-Vu Network Eyeball Camera (2.8 mm)

Entry-level Viewing IR Camera with Motion Detection





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).

- 1/2.7-in. 8MP Progressive-scan CMOS Sensor
- Dual Stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codecs
- 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*













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.

Technical	Specification	on			
Camera					
Image Sensor		1/2.7-in. 8MF	Progressive-so	can CMOS	
Effective Pixels		3840 (H) × 2160 (V)			
RAM/ROM		256 MB / 16 I	MB		
Scanning Sys	tem	Progressive			
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s			
Minimum Illumination		Color, 30 IRE: 0.04 lux at F2.0 B/W, 30 IRE: 0.004 lux at F2.0 0 lux (Illuminator On)			
S/N Ratio		> 56 dB			
IR Distance		Distance up to 30.0 m (98.43 ft)			
IR On/Off Co	ntrol	Auto, Manua			
IR LEDs		One (1)			
Lens					
Lens Type		Fixed-focal			
Iris Type		Fixed			
Mount Type		M12			
Focal Length		2.8 mm			
Maximum Ap	perture	F2.0			
Field of View		Horizontal: 105° Vertical: 56° Diagonal: 125°			
Close Focus Distance		1.0 m (3.28 ft	:)		
		Detect	Observe	Recognize	Identify
DORI¹ Distance		74.7 m (245.08 ft)	29.9 m (98.10 ft)	14.9 m (48.88 ft)	7.5 m (24.61 ft)
Pan/Tilt/R	otation				
Range		Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°			
Video					
Compression	1	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG			
Streaming Ca	apability	Two (2) Streams			
Resolution		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), D (704 × 480), VGA (640 × 480), CIF (352 × 240)			
Frame Rate	Main Stream	3840 × 2160 at 1 to 15 fps 2688 x 1520 at 1 to 30 fps			
Sub Stream		704 × 480 at 1 to 15 fps			
Bit Rate Conf	trol	CBR/VBR			
Bit Rate		H.264: 32 kpbs to 8192 Kbps H.265: 12 kpbs to 8192 Kbps			
Day/Night		Auto (ICR), Color, B/W			
Backlight		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°, 90°, 180°, 270° (Supports 90°, 270° with 2688 x 1520 resolution or lower)
Mirror	Off, On
Privacy Masking	Off, On (4 Areas)
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
	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted
Cybersecurity	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted
Cybersecurity	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade
Cybersecurity Audio Compression	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade G.711A, G.711Mu, G.726, PCM
Cybersecurity Audio Compression Input	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade G.711A, G.711Mu, G.726, PCM
Cybersecurity Audio Compression Input Certifications	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade G.711A, G.711Mu, G.726, PCM Built-in Microphone
Cybersecurity Audio Compression Input Certifications Safety Electromagnetic Compatibility	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade G.711A, G.711Mu, G.726, PCM Built-in Microphone EN 62368-1 FCC CFR 47 Part 15 Subpart B
Cybersecurity Audio Compression Input Certifications Safety Electromagnetic Compatibility (EMC)	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade G.711A, G.711Mu, G.726, PCM Built-in Microphone EN 62368-1 FCC CFR 47 Part 15 Subpart B
Cybersecurity Audio Compression Input Certifications Safety Electromagnetic Compatibility (EMC) Electrical	WSSE, Account Lockout, Security Logs, Generating and Importing X.509 Certification, HTTPS, Trusted Boot, Trusted Execution, Trusted Upgrade G.711A, G.711Mu, G.726, PCM Built-in Microphone EN 62368-1 FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU

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

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.

Ordering Information			
Туре	Part Number	Description	
8MP 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	

Accessories (Optional)









DH-PFA13A-E Junction Box

Waterproof Junction Box

PFA204W Wall Mount Bracket

Pole Mount

Ceiling Mount	Wall Mount	Pole Mount (Vertical)
DH-PFA13A-E or PFA130-E	PFA204W	PFA204W + PFA152-E

Dimensions

