

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

Entry-level Viewing IR Camera with Motion Detection





E-VU

System Overview

The Dahua 4MP Entry-level Viewing (E-VU) Camera Series offers high-resolution video in a compact and accessible package. The camera features 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.

Lite Series | N41CJ02

Technical Specification

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| Camera | | | | | | |
|-------------------------------------|--|---|-----------------------------------|---|---------------------|--|
| Image Senso | r | 1/3-in. 4MP P | 1/3-in. 4MP Progressive-scan CMOS | | | |
| Effective Pixe | els | 2560 (H) × 1440 (V) | | | | |
| RAM/ROM | | 64 MB / 16 MB | | | | |
| Scanning Sys | tem | Progressive | | | | |
| Electronic Sh | utter Speed | Auto, Manual; 1/3 s to 1/100000 s | | | | |
| Minimum Illu | umination | Color, 30 IRE: 0.03 lux at F2.0 B/W, 30 IRE: 0.003 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, Manual | | | | |
| 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: 90° Vertical: 50° Diagonal: 107° | | | | |
| Close Focus I | Distance | 1.0 m (3.28 ft) |) | | | |
| | | Detect | Observe | Recognize | Identify | |
| DORI ¹ Distan | ce | 68.0 m (223.10 ft) | 27.2 m (89.24 ft) | 13.6 m (44.62 ft) | 6.8 m (22.31 ft) | |
| Pan/Tilt/R | otation | | | | | |
| Range | | Pan: 0° to 355 Tilt: 0° to 78° Rotation: 0° to | | | | |
| Video | | | | | | |
| Compression | 1 | Smart H.265+ MJPEG | , H.265, Smart | H.264+, H.264 | , H.264B, | |
| Streaming Ca | apability | Two (2) Streams | | | | |
| Resolution | | 1080), 1.3MP | | 804 × 1296), 10 720p (1280 x 7 852 x 240) | | |
| Frame Rate | Main Stream | 2560 × 1440 a | at 1 to 30 fps | | | |
| i faille Nate | Sub Stream | 704 × 480 at 1 | L to 30 fps | | | |
| Bit Rate Cont | trol | CBR/VBR | | | | |
| Bit Rate | H.264: 32 kpbs to 4096 Kbps H.265: 12 kpbs to 4096 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, : | | ority, Shutter I | Priority, Manua | al | | |
| Noise Reduct | , | | | | | |
| Motion Dete | | Off, On (4 Zones, Rectangle) | | | | |
| Region of Int | | Off, On (4 Zones) | | | | |
| Smart IR | | Support | | | | |
| Image Rotati | on | 0°, 180° (0°by defaultr) | | | | |
| Mirror | | Off, On | | | | |
| | | Off, On (4 Areas) | | | | |
| . Invacy widsh | 0 | | , | | | |

| 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, SDK, API |
| Max. User Access | 6 (Total Bandwidth: 48 MB) |
| Edge Storage | FTP |
| Web Viewer | IE, Chrome, Firefox |
| Management Software | SmartPSS Lite, 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 |
| 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: 1.6 W (12 VDC), 2.4 W (PoE) Maximum (ICR + H.265 + IR Intensity): 3.6 W (12 VDC), 4.7 W (PoE) |
| Environmental | |
| Operating Conditions | -40°C to +60°C (-40°F to +140°F), Less than or equal to 95% RH |
| Storage Conditions | -40°C to +60°C (-40°F to +140°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 | N41CJ02

Ordering Information

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|--------------------------|-------------|---|--|--|
| Туре | Part Number | Description | | |
| 4MP Camera | N41CJ02 | 4MP 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)





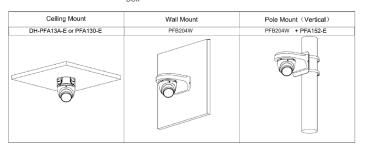


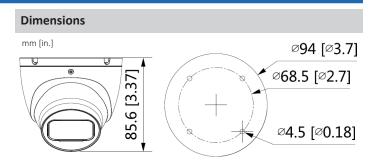
PFB204W

DH-PFA13A-E Junction Box

PFA130-E Waterproof Junction Wall Mount Bracket Box

PFA152-E Pole Mount







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