

Four-channel Basic Night Color (VU-MORE Color) Security System

Four (4) 4MP Network Cameras and One (1) Four-channel NVR

NIGHT COLOR



Wiz Sense

WizSense Series devices combine Dahua's powerful Analytics+ with an intuitive and easy to use interface. WizSense devices offer Smart Motion Detection+ and Perimeter Protection functions that focus on human and vehicular images and ignore irrelevant images to capture important video while reducing false alarms. WizSense Series devices provide powerful general surveillance for small to medium size businesses at a sensible price.

System Overview

The Dahua VU-MORE Color Lite Series camera offers multiple features such as motion detection and Smart Dual Illumination to provide deterrence, overtness, and full-color video. The camera provides increased color viewing at night for a variety of small to mid-size applications at an affordable price.

Dahua's Lite Series network video recorders offer excellent performance and high recording quality for network video security applications. For applications where details are critical for identification, this professional NVR provides a powerful processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, center storage, edge storage, and back up storage.

Functions

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Smart Motion Detection+

Smart Motion Detection+, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD+ algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected.

Smart H.265+

video compression.

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 highquality 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

4MP Network Cameras

- 4MP at 20 fps Maximum Resolution, 2.8 mm Fixed Lens
- Analytics+ Function Perimeter Protection and Smart Motion Detection+
- Smart Dual Illumination IR and White Light
- True WDR (120 dB) and Day/Night (ICR)

Four-channel NVR

- Lite Series NVR with Four (4) Channels
- One (1) SATA III Port, Up to 10 TB capacity per HDD
- Maximum 80 Mbps Recording Bandwidth
- Compatible with DMSS Application

Smart Dual Illuminators

The camera offers both IR and white-light illuminators and intelligently employs each depending on the situation. Typically, the camera enters the IR mode as ambient light decreases. When the camera detects a person entering the monitoring area, it activates the white-light illuminator to capture full-color details. Once the person leaves the area, the camera switches back to IR illumination.

Smart IR Technology

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).

Environmental

Subjected to rigorous dust and water immersion tests the camera suitable for the most demanding outdoor applications. The camera carries an IP67 rating that ensures protection from total dust ingress and protection from water immersion between 15 centimeters and 1 meter in depth.

4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of Full HD 1080p devices and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Analytics+ Recording

Working with Dahua WizSense network cameras, the NVR recognizes and records video that contains analytic data on all IP channels. The NVR records intelligence at-the-edge features, including Perimeter Protection, Smart Motion Detection+, and People Counting.

Compatible with DMSS

The DMSS app is available on the iOS App Store and the Google Play Store. DMSS makes security easy and simple, allowing remote access to back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical Specification

N42DJS2 4MP VU-MORE Color Eyeball Network Camera

Camera

| Camera | | | | | | | |
|----------------------------|-------------|---|-------------|------------------|----------------------|---------------------|--|
| Image Sensor | | 1/3-in. CMO | S | | | | |
| Effective Pixels | | 2688 (H) × 1 | 520 (\ | V), 4MP | | | |
| Scanning System | | Progressive | | | | | |
| RAM/ROM | | 128 MB/128 MB | | | | | |
| Electronic Shutte | r Speed | Auto, Manual, 1/3 s to 1/100,000 s | | | | | |
| Minimum Illumination | | 0.008 lux at F1.6 (Color, 30 IRE) 0.0008 lux at F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | | |
| S/N Ratio | | > 56 dB | | | | | |
| IR Distance | | 30 m (98.43 ft) (IR), 15 m (49.21 ft) (Warm light) | | | | | |
| IR On/Off Control | | Auto; Manual | | | | | |
| Illuminators | | One (1) IR LED, One (1) Warm Light | | | | | |
| Lens | | | | | | | |
| Lens Type | | Fixed-focal | Fixed-focal | | | | |
| Iris Type | | Fixed | | | | | |
| Mount Type | | M12 | | | | | |
| Focal Length | | 2.8 mm | | | | | |
| Maximum Aperto | ure | F1.6 | | | | | |
| | | Horizontal | | 95° | 95° | | |
| Angle of View | | Vertical | | 52° | 52° | | |
| | | Diagonal | | 114° | | | |
| Close Focus Dista | ince | 0.9 m (2.95 i | ft) | | | | |
| | | Detect | Ob | serve | Recognize | Identify | |
| DORI ¹ Distance | | 63.6 m (208.66 ft) | | 5.4 m .33 ft) | 12.7 m (41.67 ft) | 6.4 m (20.99 ft) | |
| Pan / Tilt / R | otation | | | | | | |
| Pan/Tilt/Rotation | | Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360° | | | | | |
| Video | | | | | | | |
| Compression | | Smart H.265+, Smart H.264+, H.264H, H.265, H.264, H.264B, MJPEG (Only supported by the sub stream) | | | | | |
| Streaming Capab | ility | Two (2) Streams | | | | | |
| Resolution | | 4MP (2688 × 1520), 3.6MP (2560 × 1440), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 ×960), 720p (1280 × 720), D1 (704 × 480), VGA (640 × 480), CIF (352 × 240) | | | | | |
| Frame Rate | Main Stream | 2688 × 1520 | at 20 |) fps | | | |
| Traine Nate | Sub Stream | 704 × 480 at 20 fps | | | | | |
| Bit Rate | | H.264: 32 kbps to 6144 kbps H.265: 12 kbps to 6144 kbps | | | | | |
| Bit Rate Control | | CBR, VBR | | | | | |
| Day/Night | | Auto (ICR); Manual | | | | | |
| BLC Mode | | BLC , HLC, True WDR (120 dB) | | | | | |
| White Balance | | Auto, Natural, Street Lamp, Outdoor, Manual, Regional, Custom | | | | | |
| Gain Control | | Auto, Gain Priority, Shutter Priority, Manual | | | | | |
| Noise Reduction | | 3DNR | | | | | |
| Motion Detection | | Off, On (4 Zones, Rectangle) | | | | | |
| Region of Interest | | Off, On (4 Zones) | | | | | |
| Smart IR | | Supported | | | | | |
| Image Rotation | | 0°, 90°, 180°, 270° | | | | | |
| Mirror | | Off, On | | | | | |
| Privacy Masking | | Off, On (4 Areas, Rectangle) | | | | | |
| | | | | | | | |

| م برجا: - | | | | |
|---|---------------|---|--|--|
| Audio Built-in Microphone | | Mar. | | |
| Built-in Microphone | | Yes | | |
| Compression | | G.711a, G.711Mu, PCM, G.726 | | |
| Network | | | | |
| Ethernet Protocol | | RJ-45 (10/100 Base-T) IPv4, IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP, | | |
| Interoperability | | Multcast, ICMP, IGMP ONVIF (Profile S, Profile T), CGI, P2P, Milestone, | | |
| | 00000 | SDK, API 6 (Total bandwidth: 36 M) | | |
| Maximum User A | access | | | |
| Edge Storage | | FTP, SFTP, Micro SD Card Slot (Maximum 256 GB) IE, Chrome, Firefox | | |
| Web Viewer | | | | |
| Management So | | DSS, DMSS iOS, Android | | |
| Mobile Operating System Cyber Security | | Configuraton Encrypton, Trusted Executon, Digest, Security Logs, WSSE, Account Lockout, Syslog, Video Encrypton, 802.1x, IP/MAC Filtering, HTTPS, Trusted | | |
| | | Upgrade, Trusted Boot, Firmware Encrypton, Generating and Importing X.509 Certifcaton | | |
| Certification | S | | | |
| Safety | | EN 62368-1 | | |
| Electromagnetic (EMC) | Compatibility | FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/ EU | | |
| Electrical | | | | |
| Power Supply | | 12 VDC or PoE (802.3af) | | |
| Power | Basic | 1.9 W (12 VDC), 2.4 W (PoE) | | |
| Consumption | Maximum | 5.2 W (12 VDC), 5.9 W (PoE) (H.265 + Intelligence + WDR + Warm Light) | | |
| Environmen | tal | | | |
| Operating Condi | tions | -40°C to +60°C (-40°F to +140°F), < 95% RH | | |
| Storage Conditio | ns | -40°C to +60°C (-40°F to +140°F) | | |
| Ingress Protectio | n | IP67 | | |
| Construction | n | | | |
| Casing | | Metal | | |
| Dimensions | | 100.9 mm × Φ109.9 mm (3.97 in. × Φ4.33 in.) | | |
| Net Weight | | 0.37 kg (0.82 lb) | | |
| Gross Weight | | 0.51 kg (1.12 lb) | | |
| Analytics+ F | unctions | | | |
| Perimeter Protec | tion | Detects human or vehicle violations using the following methods: Tripwire: a target crosses a defined line. Intrusion: a target enters or exits a defined perimeter. Monitors a combination of detection methods. Search and retrieve video based on target type. | | |
| Intelligent Search | | Works with a Smart NVR to perform and refine intelligent searches, event extraction and merging to event videos | | |
| Smart Motion Detection+ ² | | Differentiates between and classifies human and vehicle objects. Filters false alarms due to leaves, lights, animals, and other inconsequential objects. Extracts human or vehicle objects from recorded video for quick target search and retrieval. | | |
| Intelligent Video System Functions | | | | |
| IVS triggers an alarm and takes a defi | | | | |
| Standard Features | | Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. | | |
| | | IP Address Conflict | | |

Kit | N444E42C

Technical Specification

N41C1P2 Four-channel 4K Network Video Recorder (2 TB)

| | | · · · · | | |
|----------------------------|-----------------|--|--|--|
| System | | | | |
| Main Processor | | Industrial-grade Embedded Processor | | |
| Operating System | | Embedded Linux | | |
| Audio and Video | | | | |
| IP Camera Input | | Four (4) Channels | | |
| Input | | One (1) Channel, RCA | | |
| Audio | Output | One (1) Channel, RCA | | |
| Analytics+ R | ecording³ | | | |
| Perimeter | Channels | Four (4) | | |
| Protection | Search | By channel, time, event type | | |
| Smart Motion Detection+ | Channels | Four (4) | | |
| | Search | By target classification (human or vehicle) | | |
| Display | | 0 | | |
| Interface | | One (1) HDMI, One (1) VGA | | |
| Native Output Re | solution | 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720 | | |
| Maximum Decod | ing | Two (2) Channel of 8MP at 30 fps Four (4) Channels of 4MP at 30 fps | | |
| Multi-screen Disp | olay | 1/4 | | |
| On-screen Displa | V | Camera Title, Time, Video Loss, Camera Lock, | | |
| · | , | Motion Detection, Recording | | |
| Recording | | | | |
| Video Compressi | | Smart H.265+, H.265, Smart H.264+, H.264, MJPEG | | |
| Audio Compressi | on | PCM, G.711A, G.711Mu, G.726 | | |
| Supported IP Can | nera Resolution | 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1 | | |
| Maximum Record | ding Bandwidth | 80 Mbps | | |
| Record Mode | | Manual Recording; Alarm Recording; SMD+ Recording; Smart Recording | | |
| Video Detec | tion and Alar | m | | |
| General Alarms | | Motion Detection, Privacy Masking, Video Loss, Scene Changing, PIR Alarm, IPC External Alarm | | |
| Anomaly Alarms | | Camera Disconnection, Storage Error, Disk Full, IP Conflict, MAC Conflict, Login Locked, Cybersecurity Exception | | |
| Analytics+ Alarm | s | Face Detection, Perimeter Protection (Intrusion and Tripwire), IVS, People Counting, Heat Map, SMD+ | | |
| Alarm Actions | | Recording, Snapshot, Audio, Buzzer, Log, Preset, Email | | |
| Playback and | d Backup | | | |
| , Sync Playback | | 1/4 | | |
| Search Mode | | Time/Date, Alarm, MD and Exact Search (Accurate to One (1) Second), Smart Search | | |
| Playback Function | | Play, Pause, Stop, Rewind, Fast Play, Slow Play, Reverse, By Frame, Full Screen, Backup Selection (Video Clip or File), Partial Zoom, Audio On/Off | | |
| Backup Mode | | USB Device, Network | | |
| Third-party S | Support | | | |
| Brands | | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others | | |
| Network | | | | |
| Ethernet | | One (1) RJ-45 Port (10/100 Mbps), Self-adaptive | | |
| PoE | | Four (4) Ports (IEEE802.3af/at) | | |
| Network Function | | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP, Alarm Server, IP Search (Supported for Dahua IP cameras, DVRs, NVRs), P2P, Auto-register | | |
| Maximum User Access | | 128 | | |
| Mobile Operating System | | iOS, Android | | |
| | | | | |

| Browser | Chrome, Microsoft Edge | | |
|--|---|--|--|
| Interoperability | ONVIF (Profile S, T, and G), CGI, SDK | | |
| Storage | | | |
| Internal HDD | One (1) SATA III Port, Up to 10 TB capacity per HDD | | |
| HDD Mode | Single | | |
| Auxillary Interface | | | |
| USB | Two (2) USB 2.0 Ports (Rear Panel) | | |
| Electrical | | | |
| Power Supply | 48 VDC, 1.25 A | | |
| NVR Power Consumption | < 10 W, without HDD | | |
| Total PoE Budget | 25.5 W (Single Port), 36 W (Total) | | |
| Construction | | | |
| Dimensions (W x L x H) | 204.60 mm x 206.40 mm x 45.60 mm (8.06 in. x 8.12 in. x 1.80 in.) | | |
| Net Weight | 0.50 kg (1.10 lb), without HDD | | |
| Gross Weight | 1.43 kg (3.15 lb), without HDD | | |
| Certifications | | | |
| Safety | EN62368-1, UL 62368-1, CAN/CSA C22.2 No.62368- 1-14 | | |
| Electromagnetic Compatibility (EMC) | CFR 47 FCC Part 15 Subpart B, EN55032, EN55024, EN55035, EN61000-3-2, EN61000-3-3, EN50130-4 | | |

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 stan-dard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.
 Pair a Smart Motion Detection+ camera with a Dahua recording device that also offers SMD+ functionality to take advantage of SMD+ alarm filtering and object classification when searching and playing back recorded video.
 The recorder Analytics+ functions are available only when connected to a Dahua network camera with Analytics+ functionality.

Kit | N444E42C

| Ordering Information | | | | |
|---------------------------|--------------------|---|--|--|
| Туре | Part Number | Description | | |
| Security System | N444E42C | 1 x N41C1P2 Four-channel 4K Network Video Recorder (2 TB) 4 x N42DJS2 4MP VU-MORE Color Eyeball Network Camera | | |
| Accessories (Optional) | PFA106 | Mount Adapter | | |
| | PFA130-E | Waterproof Junction Box | | |
| | PFA151 | Corner Mount | | |
| | PFA152-E | Pole Mount | | |
| | PFB220C | Ceiling Mount | | |
| | PFB305W | Wall Mount | | |
| | DH-PFB205W-E | Wall Mount Bracket | | |
| | DH-PFA200G | Gang Box Adapter | | |
| | DH-PFM321D-US | 12 VDC, 1 A Power Adapter | | |
| | DHI-TF-P100 Series | Micro SDXC Cards (64 GB, 128 GB, or 256 GB) | | |
| | DH-PFM920I-5EU-U | 305 m (1000 ft) CAT5e UTP Cable | | |
| | DH-PFM900-E | Integrated Mount Tester | | |

Installation



Dimensions (N42DJS2)

mm [in.]



Optional:





PFA152-E Pole Mount



DH-PFB205W-E Wall Mount Bracket



DHI-TF-P100 Series Micro SDXC Cards (64 GB, 128 GB, or 256 GB)

PFA130-E Waterproof Junction Box

PFB220C

Ceiling Mount

DH-PFA200G

Gang Box Adapter



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PFB305W Wall Mount



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



DH-PFM900-E Integrated Mount Tester

For all possible accessory combinations for this camera, please scan or click the QR code below to go to our accessory selector.

DH-PFM920I-5EU-U

305 m (1000 ft) CAT5e UTP

Cable





Rear Panel (N41C1P2)





83.3 [3.28]

 $4 - 4.5 \times 5.5$

Dimensions (N41C1P2)



