

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

Twelve (12) 4MP Network Cameras and One (1) 16-channel NVR



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+

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 video compression.

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.

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)

16-channel 4K NVR

- Lite Series NVR with Sixteen (16) Channels
- Two (2) SATA III Ports, Up to 10 TB capacity per HDD
- Maximum 160 Mbps Recording Bandwidth
- Compatible with DMSS Application

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).

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° C (-40° F). 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.

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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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

0.008 lux at F1.6 (Color, 30 IRE) 0.0008 lux at F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
> 56 dB			
30 m (98.43 ft) (IR), 15 m (49.21 ft) (Warm light)			
Auto; Manual			
One (1) IR LED, One (1) Warm Light			
ntify			
Pan: 0° to 360° Tilt: 0° to 78°			
Smart H.265+, Smart H.264+, H.264H, H.265, H.264, H.264B, MJPEG (Only supported by the sub stream)			
e sub			
e sub			
e sub 1P 1280 A			
1P 1280			
1P 1280 A			
1P 1280			
1P 1280 A			
30 m (98.43 ft) (IR), 15 m (49.21 ft) (Warm light) Auto; Manual			

Audio				
, 10010		Vec		
Built-in Microphone		Yes		
Compression		G.711a, G.711Mu, PCM, G.726		
Network				
Ethernet		RJ-45 (10/100 Base-T)		
Protocol		IPv4, IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP, Multcast, ICMP, IGMP		
Interoperability		ONVIF (Profile S, Profile T), CGI, P2P, Milestone, SDK, API		
Maximum User	Access	6 (Total bandwidth: 36 M)		
Edge Storage		FTP, SFTP, Micro SD Card Slot (Maximum 256 GB)		
Web Viewer		IE, Chrome, Firefox		
Management So	ftware	DSS, DMSS		
Mobile Operatin	ig System	iOS, Android		
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,		
Certification	ns	Generating and Importing X.509 Certifcaton		
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)		
	Basic	1.9 W (12 VDC), 2.4 W (PoE)		
Power Consumption	Maximum	5.2 W (12 VDC), 5.9 W (PoE) (H.265 + Intelligence + WDR + Warm Light)		
Environmer	ntal			
Operating Condi	tions	-40°C to +60°C (-40°F to +140°F), < 95% RH		
Storage Condition	ons	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection	on	IP67		
Constructio	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)		
_	unctions			
Analytics+ Functions Perimeter Protection		 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 Searc	h	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 al	arm and takes a de	fined action for the following events:		
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

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Technical Specification

N42C3P4 16-channel 4K Network Video Recorder (4 TB)

System				
Main Processor		Industrial-grade Embedded Processor		
Operating System		Embedded Linux		
Audio and V	ideo			
IP Camera Input		16 Channels		
Audio		Input: One (1) Channel, RCA Output: One (1) Channel, RCA		
Analytics+ R	ecording³			
Perimeter	Channels	Eight (8)		
Protection	Search	By Channel, Time, and Event Type		
Smart Motion	Channels	12		
Detection+	Search	By Target Classification (Human or Vehicle)		
Display				
Interface		One (1) HDMI One (1) VGA		
Native Output Re	solution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720		
Maximum Decoding		Two (2) Channel of 8 MP at 30 fps Four (4) Channels of 4 MP at 30 fps Eight (8) Channels of 2 MP at 30 fps 16 Channels of 2 MP at 15 fpss		
Multi-screen Display		1/4/8/9/16		
On-screen Display		Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording		
Recording				
Video Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		
Audio Compressi	on	PCM, G.711A, G.711Mu, G.726		
Supported IP Camera Resolution		8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1		
Maximum Recording Bandwidth		160 Mbps		
Record Mode		Manual Recording; Alarm Recording; SMD Recording; Smart Recording		

Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP Camera, DVR, NVS), P2P, Auto-register	
Maximum User Access	128	
Mobile Operating System	iOS, Android	
Browser	Chrome, Microsoft Edge	
Interoperability	ONVIF Profiles (S,T,G); CGI; SDK	
Storage		
Internal HDD	Two (2) SATA III Ports, Up to 10 TB capacity per HDD	
HDD Mode	Single	
Auxiliary Interface		
USB	Two (2) USB 2.0 Ports (Rear Panel)	
RS-232	One (1) Port	
Electrical		
Power Supply	100 VAC to 240 VAC, 47 Hz to 63 Hz, 3.5 A	
NVR Power Consumption	< 10 W, without HDD	
Total PoE Budget	25.5 W single port, 117 W total	
Environmental		
Operating Conditions	–10° C to 55° C (14° F to 131° F), 10% to 93% RH	
Storage Conditions	0° C to 40° C (32° F to 104° F), 30% to 85% RH	
Construction		
Dimensions (W x L x H)	375.0 mm x 327.90 mm x 53.0 mm (14.76 in. x 12.91 in. x 2.09 in.)	
Net Weight	2.63 kg (5.80 lb), without HDD	
Gross Weight	3.91 kg (8.62 lb), without HDD	
Construction		
Safety	EN 62368-1, UL 62368-1, CAN/CSA C22.2 No.62368-1-14	
Electromagnetic Compatability (EMC)	CFR 47 FCC Part 15 Subpart B, EN55032, EN55024, EN55035, EN61000-3-2, EN61000-3-3, EN50130-4	

Video Detection and Alarm

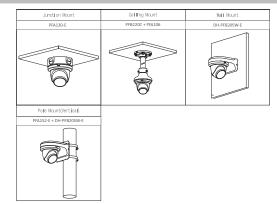
Four (4) Channels Two (2) Channels			
Two (2) Channels			
Motion Detection, Privacy Masking, Video Loss, Scene Changing, PIR Alarm, IPC External Alarm			
Camera Disconnection, Storage Error, Disk Full, IP Conflict, MAC Conflict, Login Locked, Cybersecurity Exception			
Face Detection, Perimeter Protection (Intrusion and Tripwire), IVS, People Counting, Heat Map, SMD Alarms			
Recording, Snapshot, Audio, Buzzer, Log, Preset, Email			
Playback and Backup			
1/4/8			
Time/Date, Alarm, MD and Exact Search (Accurate to One (1) Second), Smart Search			
Play, Pause, Stop, Rewind, Fast Play, Slow Play, Reverse, By Frame, Full Screen, Backup Selection (Video Clip or File), Partial Zoom, Audio On/Off			
USB Device, Network			
Third-party Support			
Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and Others			
Network			
One (1) RJ-45 Port (10/100/1000 Mbps), Self- adaptive			
16 Ports (IEEE802.3af/at)			

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.

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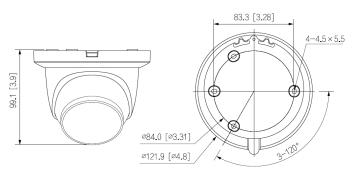
Ordering Information				
Туре	Part Number	Description		
Security System	N464E124C	 1 x N42C3P4 Sixteen-channel 4K Network Video Recorder (4 TB) 12 x N42DJS2 4MP VU-MORE Color Eyeball Network Camera 		
	PFA106	Mount Adapter		
	PFA130-E	Waterproof Junction Box		
	PFA151	Corner Mount		
	PFA152-E	Pole Mount		
	PFB220C	Ceiling Mount		
Accessories	PFB305W	Wall Mount		
(Optional)	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



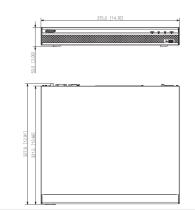
Dimensions (N42DJS2)

mm [in.]

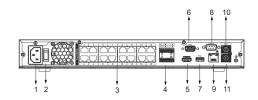


Dimensions (N42C3P4)

mm [in.]



Rear Panel (N42C3P4)



1	Power Input	6	VGA Output
2	Power Switch	7	USB 2.0 Ports (x1)
3	PoE Ports, RJ-45 (x16)	8	RS232 Port
4	Alarm I/O	9	Network Port, RJ-45
5	HDMI Output	10	MIC Input, RCA (x1)
		11	Audio Output, RCA (x1)

Accessories

Optional:



Mount Adapter



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



DH-PFM920I-5EU-U 305 m (1000 ft) CAT5e UTP Cable

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



PFA151

Corner Mount

PFB305W

Wall Mount

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.



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