

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

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

NIGHT COLOR





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 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.

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 S	pecification					Audio			
		Color Eyeball Network Camera				Built-in Microph	ione	Yes	
	VIP VU-IVIUKI	Color Eyebali Network Camera				Compression		G.711a, G.711Mu, PCM, G.726	
Camera						Network			
Image Sensor		1/3-in. CMOS				Ethernet		RJ-45 (10/100 Base-T)	
Effective Pixels		2688 (H) × 1520 (V), 4MP				Protocol		IPv4, IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP,	
Scanning System		Progressive				Protocol		RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP, Multcast, ICMP, IGMP	
RAM/ROM		128 MB/128 MB				Interoperability		ONVIF (Profile S, Profile T), CGI, P2P, Milestone,	
Electronic Shutter Speed		Auto, Manual, 1/3 s to 1/100,000 s 0.008 lux at F1.6 (Color, 30 IRE)						SDK, API	
Minimum Illumination		0.0008 lux at	t F1.6 (B/W, 3			Maximum User Edge Storage	Access	6 (Total bandwidth: 36 M) FTP, SFTP, Micro SD Card Slot (Maximum 256 GB)	
5 (t) 5 · ·		0 lux (Illumir	nator on)			Web Viewer		IE, Chrome, Firefox	
S/N Ratio		> 56 dB	6.1 (1-1)			Management So	oftware	DSS, DMSS	
IR Distance		·		(49.21 ft) (Wa	arm light)	Mobile Operation		iOS, Android	
IR On/Off Control		Auto; Manual				Woodie Operatii	ig System	Configuration Encrypton, Trusted Execution, Digest,	
Illuminators		One (1) IR LED, One (1) Warm Light						Security Logs, WSSE, Account Lockout, Syslog,	
Lens						Cyber Security		Video Encrypton, 802.1x, IP/MAC Filtering, HTTPS,	
Lens Type		Fixed-focal				,		Trusted	
Iris Type		Fixed						Upgrade, Trusted Boot, Firmware Encrypton, Generating and Importing X.509 Certification	
Mount Type		M12				Certification	ns		
Focal Length		2.8 mm				Safety		EN 62368-1	
Maximum Apert	ure	F1.6				Electromagnetic	Compatibility	FCC CFR 47 Part 15 Subpart B	
Angle of View		Horizontal	95°			(EMC)	Compatibility	Electromagnetic Compatibility Directive 2014/30/ EU	
			Vertical 52°			Electrical		-	
Close Focus Distance		Diagonal 114° 0.9 m (2.95 ft)				Power Supply		12 VDC or PoE (802.3af)	
Close I ocus Distalice		Detect	Observe	Recognize	Identify		Basic	1.9 W (12 VDC), 2.4 W (PoE)	
DORI¹ Distance		63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (20.99 ft)	Power Consumption	Maximum	5.2 W (12 VDC), 5.9 W (PoE) (H.265 + Intelligence + WDR + Warm Light)	
Pan / Tilt / Rotation		(200.00 ft) (03.55 ft) (11.07 ft) (20.55 ft)			Environmer	Environmental			
run / mc / notation		Pan: 0° to 36	60°			Operating Cond	itions	-40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F), $< 95\%$ RH	
Pan/Tilt/Rotatio	n	Tilt: 0° to 78°				Storage Condition	ons	-40°C to +60°C (-40°F to +140°F)	
Video		Notation. 0	Rotation: 0° to 360°				on	IP67	
Video		Smart H.265	Smart H.265+, Smart H.264+, H.264H, H.265,				Construction		
Compression		· .	H.264, H.264B, MJPEG (Only supported by the sub					Metal	
Streaming Capability		stream) Two (2) Strea	ams			Dimensions		100.9 mm × Φ109.9 mm (3.97 in. × Φ4.33 in.)	
Streaming Capability				1P (2560 × 144	10). 3MP	Net Weight		0.37 kg (0.82 lb)	
Resolution		(2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280				Gross Weight		0.51 kg (1.12 lb)	
		×960), 720p (1280 × 720), D1 (704 × 480), VGA (640 × 480), CIF (352 × 240)				Analytics+ Functions			
	Main Stream	2688 × 1520 at 20 fps						 Detects human or vehicle violations using the following methods: 	
Frame Kate	Frame Rate Sub Stream		20 fps					Tripwire : a target crosses a defined line.	
Bit Rate		H.264: 32 kb		•		Perimeter Prote	ction	Intrusion: a target enters or exits a defined perimeter.	
Bit Rate Control		H.265: 12 kb CBR, VBR	γρ ο τ Ο 0144 Κ	uha				 Monitors a combination of detection methods. 	
		,	/Janual					 Search and retrieve video based on target type. Works with a Smart NVR to perform and refine 	
Day/Night BLC Mode			Auto (ICR); Manual BLC , HLC, True WDR (120 dB)				ch	intelligent searches, event extraction and merging	
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual,						to event videos • Differentiates between and classifies human and	
Gain Control		-	Regional, Custom Auto, Gain Priority, Shutter Priority, Manual					vehicle objects. • Filters false alarms due to leaves, lights, animals,	
Noise Reduction		3DNR	nonty, snutte	a Friority, IVIa	iiuai	Smart Motion D	etection+²	and other inconsequential objects.	
Motion Detection		Off, On (4 Zo	ines Restand	le)				 Extracts human or vehicle objects from recorded video for quick target search and retrieval. 	
Region of Interest				10)		Intelligent \	Intelligent Video System Functions		
-		Off, On (4 Zones)				IVS triggers an alarm and takes a defined action for the following events:			
Smart IR			Supported 0°, 90°, 180°, 270°				Tampering with the camera.		
Image Rotation			, 210					Error writing to an onboard Micro SD card.	
Mirror Privacy Masking		Off, On				Standard Featur	es	 Error sending or receiving data over the network. 	
Privacy Masking		Off, On (4 Areas, Rectangle)					Unauthorized access to the camera.		

Technical Sp	ecification	
N41C1P2 Fo	our-channel 4	K Network Video Recorder (2 TB)
System		
Main Processor		Industrial-grade Embedded Processor
Operating Syster	n	Embedded Linux
Audio and V	'ideo	
IP Camera Input		Four (4) Channels
Audio	Input	One (1) Channel, RCA
	Output	One (1) Channel, RCA
Analytics+ Recording ³		- (n)
Perimeter Protection	Channels Search	Four (4) By channel, time, event type
Smart Motion	Channels	Four (4)
Detection+	Search	By target classification (human or vehicle)
Display		
Interface		One (1) HDMI, One (1) VGA
Native Output Re	esolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720
Maximum Decod	ling	Two (2) Channel of 8MP at 30 fps Four (4) Channels of 4MP at 30 fps
Multi-screen Dis	plav	1/4
		Camera Title, Time, Video Loss, Camera Lock,
On-screen Displa	ıy	Motion Detection, Recording
Recording		
Video Compressi	ion	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Audio Compress		PCM, G.711A, G.711Mu, G.726
Supported IP Car		8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1
Maximum Recor	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 Camera Disconnection, Storage Error, Disk Full,
Anomaly Alarms		IP Conflict, MAC Conflict, Login Locked, Cybersecurity Exception
Analytics+ Alarm	ıs	Face Detection, Perimeter Protection (Intrusion and Tripwire), IVS, People Counting, Heat Map,
Alarm Actions		SMD+ Recording, Snapshot, Audio, Buzzer, Log, Preset,
Alarm Actions		Email
Playback an	d Backup	
Sync Playback		1/4
Search Mode		Time/Date, Alarm, MD and Exact Search (Accurate to One (1) Second), Smart Search
Playback Functio	n	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	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 Functio	n	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 A	Access	128
Mahila Oparatia	g 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		

<sup>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.

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.</sup>

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				
	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				

Accessories

Optional:



PFA106 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



PFA151 Corner Mount



PFB305W Wall Mount



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

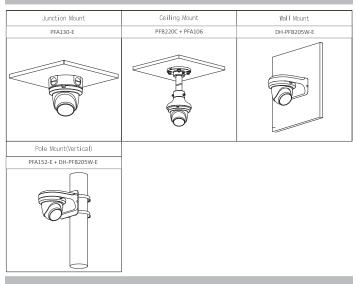


DH-PFM900-E Integrated Mount Tester

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

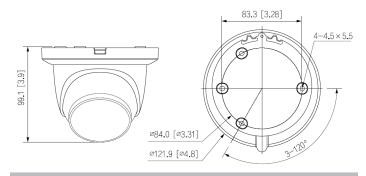


Installation

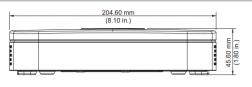


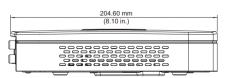
Dimensions (N42DJS2)

mm [in.]

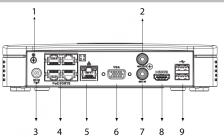


Dimensions (N41C1P2)





Rear Panel (N41C1P2)



- 1 Ground
 2 Audio Output, RCA (x1)
 3 Power Input
- 6 VGA Output
 7 Audio Input, RCA (x1)
 8 HDMI Output
- 4 PoE Ports, RJ-45 (x4)
- B HDMI Output
 USB 2.0 Ports (x2)