

# 4MP Basic Night Color (VU-More Color) Security System

Six (6) 4MP Fixed Eyeball Network Cameras with One (1) Eight-Channel 4K Network Video Recorder

# NIGHT COLOR



# Wiz Sense

### System Overview

The 4MP Basic Night Color (VU-More Color) Security System provides all the components to quickly install, configure, and employ a complete video security solution. The IP cameras offer the clarity of 4MP video and the NVR offers built-in motion detection algorithms, alarm triggers, and customized recording modes. The NVR also features Plug-and-Play technology to connect quickly to cameras on the same network. Each component accepts a POE power supply to facilitate installation.

### Functions

### Basic Night Color (VU-MORE Color) Technology

Dahua's Basic Night Color (VU-MORE Color) cameras offer multiple features such as motion detection and Smart Dual Illumination to provide deterrence, overtness, and full-color video in low-light scenes. These cameras are designed to reduce light pollution by only turning on the white-light LEDs for full color images when human motion is detected.

#### Smart Dual Illumination

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

#### Flexible Recording

The NVR offers a variety of configurable recording options and schedules that saves disk space and active monitoring time. The NVR monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The NVR can also be programmed to record on a schedule or at different intervals. The recording options and schedules can be set for each individual camera or copied to all cameras.

#### 4MP Network Cameras

- 4MP at 30 fps Maximum Resolution
- Maximum IR LED Length 30 m (98.43 ft) with Smart IR
- 2.8 mm fixed lens
- Analytics+ Features Smart Motion Detection+, Perimeter Protection, Intelligent Search
- Basic Night Color Technology
- Smart Dual Illumination IR and White Light
- True WDR (120 dB) and Day/Night (ICR)
- Built-in Microphone
- IP67 Ingress Protection
- 4K Network Video Recorder
- 2 TB Pre-installed Hard Disk Drive
- Supports Remote Configuration and Management of Network Cameras
- Smart H.265+ and Smart H.264+ Dual Codec
- Maximum 80 Mbps Recording Bandwidth
- Up to 8MP Resolution for Preview and Playback

#### 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.

#### Environmental

With a temperature range of  $-40^{\circ}$  C to  $+60^{\circ}$  C ( $-40^{\circ}$  F to  $+140^{\circ}$  F), the cameras are designed for extreme temperature environments. The cameras, subjected to rigorous dust and water immersion tests, are certified to the IP67 rating making them suitable for demanding outdoor applications.

The NVR features an operating temperature of-10° C to +55° C (+14° F to +131° F).

# **Technical Specification**

# N42DJS2 4MP Basic Night Color (VU-MORE Color) Network Eyeball Camera

Са	m	е	ra
Ca	m	е	ra

Camera					
Image Sensor		1/3-in. CMOS			
Effective Pixel	ls	2560 (H) × 144	40 (V)		
RAM/ROM		128 MB/128 MB			
Scanning Syst	em	Progressive			
Electronic Shu	itter Speed	Auto, Manual	; 1/3 s to 1/100	0000 s	
Minimum Illur	mination	Color, 30 IRE: 0.008 lux at F1.6 B/W, 30 IRE: 0.0008 lux at F1.6 0 lux (Illuminator On)			
S/N Ratio		> 56 dB			
IR Distance		30 m (98.43 ft	:) (IR), 15 m (49	9.21 ft) (Warm	Light)
IR On/Off Con	trol	Auto, Manual			
IR LEDs		One (1) IR LED	), One (1) Warı	m Light	
Lens					
Lens Type		Fixed-focal			
Iris Type		Fixed			
Mount Type		M12			
Focal Length		2.8 mm			
Maximum Ape	erture	F1.6			
Field of View		Horizontal: 95° Vertical: 52° Diagonal: 114°			
Close Focus D	istance	0.9 m (2.95 ft)			
		Detect	Observe	Recognize	Identify
DORI <sup>1</sup> Distanc	e	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (20.99 ft)
Pan/Tilt/R	otation				
Range		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 (Sub Stream Only)			
Streaming Cap	pability	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 a	t 30 fps		
	Sub Stream	704 × 480 at 30 fps			
Bit Rate Contr	ol	CBR/VBR			
Bit Rate		H.264: 32 kbps to 6144 kbps H.265: 12 kbps to 6144 kbps			
Day/Night		Auto (ICR), Manual			
Backlight		BLC , HLC, True WDR (120 dB)			
White Balance	2	Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom			
Gain Control		Auto, Gain Priority, Shutter Priority, Manual			
Noise Reducti	on	3DNR			
Motion Detec	tion	Off, On (4 Zones, Rectangle)			
Region of Inte	rest	Off, On (4 Zones)			
Image Rotatio	n	0°, 90°, 180°, 270°			
Mirror		Off, On			
Privacy Maski	ng	Off, On (4 Areas)			
Smart IR		Supported			

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, Multicast, ICMP, IGMP
Interoperability	ONVIF (Profile S, Profile T), CGI, P2P, SDK, API
Max. User Access	6 (Total Bandwidth: 36 MB)
Edge Storage	FTP, SFTP, Micro SD Card Slot (Maximum 256 GB)
Web Viewer	Edge, Chrome, Firefox
Management Software	DSS, 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
Certifications	
Built-in Microphone	Yes
Audio Compression	G.711a, G.711Mu, PCM, G.726
Electrical	
Power Supply	12 VDC or PoE (802.3af)
Power Consumption	Basic: 1.9 W (12 VDC), 2.4 W (PoE); Maximum: 5.2 W (12 VDC), 5.9 W (PoE) (H.265 + Intelligence + WDR + Warm Light)
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	1P67
-	
Construction	Metal
Casing	
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+ Functions	
Perimeter Protection	<ul> <li>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.</li> <li>Monitors a combination of detection methods.</li> <li>Search and retrieve video based on target type.</li> </ul>
Intelligent Search	Works with a Smart NVR to perform and refine intelligent searches, event extraction and merging to event videos.
Smart Motion Detection+	<ul> <li>Differentiates between and classifies human and vehicle objects.</li> <li>Filters false alarms due to leaves, lights, animals, and other inconsequential objects.</li> <li>Extracts human or vehicle objects from recorded video for quick target search and retrieval.</li> </ul>
Intelligent Video System	
IVS triggers an alarm and takes a de	efined action for the following events:
Standard Features	<ul> <li>Tampering with the camera.</li> <li>Error writing to an onboard Micro SD card.</li> <li>Error sending or receiving data over the network.</li> <li>Unauthorized access to the camera.</li> <li>IP Address Conflict</li> </ul>

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.

# **Technical Specification**

# N41C2P2 Eight-channel 4K Network Video Recorder (2 TB)

# System

Main Processor		Industrial-grade Embedded Processor	
Operating System		Embedded Linux	
Audio and Video			
IP Camera Input		Eight (8) Channels	
Audio		Input: One (1) Channel, RCA Output: One (1) Channel, RCA	
Analytics+ Recording <sup>2</sup>			
Perimeter	Channels	Eight (8)	
Protection	Search	By Channel, Time, and Event Type	
Smart Motion	Channels	Eight (8)	
Detection+	Search	By Target Classification (Human or Vehicle)	
Display			
Interface		One (1) HDMI One (1) VGA	
Native Output R	esolution	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	
Multi-screen Display		1/4/8/9	
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 Compression		PCM, G.711A, G.711Mu, G.726	
Supported IP Camera Resolution		8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1	
Maximum Recording Bandwidth		80 Mbps	
Record Mode		Manual Recording; Alarm Recording; SMD Recording; Smart Recording	
Video Detection and Alarm			

# Third-party Support

Third-party Support	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 (10/100/1000 Mbps), Self-adaptive
PoE	Eight (8) 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 (Support Dahua IP Camera; DVR; NVS); P2P; Auto-register
Maximum User Access	128
Mobile Operating System	iOS, Android
Browser	Chrome; IE 9 or later
Interoperability	ONVIF Profiles (S,T,G); CGI; SDK
Storage	
Internal HDD	One (1) SATA III Port, Up to 10 TB capacity per HDD
HDD Mode	Single
Auxiliary Interface	
USB	Two (2) USB 2.0 Ports (Rear Panel)
Electrical	
Power Supply	53 VDC, 1.36 A
NVR Power Consumption	< 10 W, without HDD
Total PoE Budget	25.5 W single port, 36 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)	
	270.0 mm x 206.50 mm x 47.50 mm (10.63 in. x 8.12 in. x 1.80 in.)
Net Weight	
Net Weight Gross Weight	(10.63 in. x 8.12 in. x 1.80 in.)
-	(10.63 in. x 8.12 in. x 1.80 in.) 0.70 kg (1.54 lb), without HDD
Gross Weight	(10.63 in. x 8.12 in. x 1.80 in.) 0.70 kg (1.54 lb), without HDD
Gross Weight Certifications	(10.63 in. x 8.12 in. x 1.80 in.) 0.70 kg (1.54 lb), without HDD 1.80 kg (3.97 lb), without HDD EN 62368-1 UL 62368-1

# Video Detection and Alarm

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+ Alarms	Face Detection, Perimeter Protection (Intrusion and Tripwire), IVS, People Counting, Heat Map, SMD Alarms
Alarm Actions	Recording, Snapshot, Audio, Buzzer, Log, Preset, Email

# Playback and Backup

Sync Playback	1/4/8
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

<sup>2.</sup> The recorder Analytics+ functions are available only when connected to a Dahua network camera with Analytics+ functionality.

# Kit | N484E62C

Ordering Information		
Туре	Part Number	Description
Security System	N484E62C	<ul> <li>6 x N42DJS2 4MP Fixed Eyeball Network Camera</li> <li>1 x N41C2P2 8-channel 4K Network Video Recorder with 2 TB HDD (Smart 1U Casing, 8 PoE Ports)</li> </ul>
	PFA106	Mount Adapter
	PFA130-E	Waterproof Junction Box
	PFA151	Corner Mount
	PFA152-E	Pole Mount
	PFB220C	Ceiling Mount
	PFB305W	Wall Mount
Accessories (Optional)	DH-PFB205W-E	Wall Mount Bracket
(optional)	DH-PFA220G	Gang Box Adapter
	DH-PFM321D-US	12 VDC, 1 A Power Adapter
	DHI-TF-P100 Series	Micro SDXC Cards
	DH-PFM920I-5EU-U	305 m (1000 ft) CAT5e UJTP Cable
	DH-PFM900-E	Integrated Mount Tester
	PFH101	Rack Mount Tray





# **Dimensions - N42DJS2**



### **Dimensions - N41C2P2**







# Accessories

#### Optional:

Туре

NVR

PFA106

Mount Adapter

PFA152-E

Pole Mount

DH-PFB205W-E

Wall Mount Bracket

**Ordering Information** 

Network Cameras

Material

Mouse

Printed Manual Printed Regulatory Guide Plastic Wall Anchors with Screws (x3)

Mounting Template

Printed Regulatory Guide

Waterproof Ethernet Connector Quick Network Guide Printed Manual

Power Adapter with Power Cord Ethernet Cable, RJ-45 Rubber Feet (x4)







. ...

PFB220C Ceiling Mount



DH-PFA220G Gang Box Adapter

DH-PFM920I-5EU-U

305 m (1000 ft) CAT5e

UJTP Cable



DHI-TF-P100 Series Micro SDXC Cards



PFH101 Rack Mount Tray



PFB305W

Wall Mount

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



Integrated Mount Tester









DH-PFM900-E