

4K Network Security System

Four (4) 4 MP Eyeball and Two (2) 4K Dome Network Cameras with One (1) 8-channel 4K NVR



System Overview

The Dahua Network Security System provides all the components to quickly install, configure, and employ a complete video surveillance solution. The IP cameras offer the clarity of 4K 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

Intelligent Video System

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera detects and captures a snapshot of human face in a defined area within a scene, and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate 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 ft).

4 MP Network Cameras

- 4 MP at 20 fps Maximum Resolution, 2.8 mm Fixed Lens
- Maximum IR Length 30 m (98 ft) with Smart IR
- Intelligent Video System
- IP67 Environmental Protection

4K Network Cameras

- 8 MP at 15 fps Maximum Resolution, 2.8 mm Fixed Lens
- Maximum IR Length 30 m (98 ft) with Smart IR
- Intelligent Video System
- IP67 Environmental Protection

4K Network Video Recorder

- Smart H.265+ and Smart H.264+ Dual Codec
- Up to 8 MP Resolution for Preview and Playback
- Up to 2 Channels of 8 MP or 8 Channels of 1080p Decoding
- 80 Mbps Incoming Bandwidth

Flexible Recording

The NVR offers a variety of configurable recording options and schedules that saves HDD 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.

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 built-in heater and a temperature range of -30° C to $+60^{\circ}$ C (-22° 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).

Interoperability

The camera and NVR conform to the ONVIF (Open Network Video Interface Forum) specification, ensuring interoperability between network video products regardless of manufacturer.

Off, On (4 Zones, rectangular) **Motion Detection Technical Specification** Region of Interest Off, On (4 Zones) N41BK22 4 MP Network Camera Smart IR Auto, Manual Camera Digital Zoom **Image Sensor** 1/3-in. CMOS Flip 0°, 90°, 180°, 270° Mirror Off, On **Effective Pixels** 2688 (H) x 1520 (V), 4 MP Privacy Masking Off, On (4 Areas, rectangular) Scanning System Progressive Network **Electronic Shutter Speed** Auto, Manual: 1/30 s to 1/100000 s Ethernet RJ-45 (10/100 Base-T) Color: 0.08 lux at F2.0 (1/3 s, 30 IRE) HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, Minimum Illumination Color: 0.3 lux at F2.0 (1/30 s, 30 IRE) FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, Protocol 0 Lux with IR on UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP S/N Ratio More than 65 dB Interoperability ONVIF Profile S & G, API IR Distance Up to 30 m (98.04 ft) Streaming Method Unicast, Multicast IR On/Off Control Auto, Manual 10 Users /20 Users Max. User Access NAS IR LEDs 12 **Edge Storage** Local PC for instant recording Lens Web Viewer IE, Chrome, Firefox, Safari Smart PSS, DSS Management Software Fixed Lens Lens Type IOS, Android **Mobile Operating System** Board-in Mount Type Certifications 2.8 mm Focal Length UL60950-1 Safety F2.0 Max Aperture **Electromagnetic Compatibility** FCC CFR 47 FCC Part 15 Subpart B Horizontal: 104° (EMC) Angle of View Vertical: 57° Electrical **Focus Control** Fixed **Power Supply** 12 VDC, 0.5 A or PoE (IEEE 802.3af, Class 0) DORI¹ Distance **Power Consumption** < 5.5 W Detect Observe Identify Recognize Environmental (8 ppf) (19 ppf) (38 ppf) (76 ppf) -30° C to +60° C (-22° F to +140° F), 63 m (207 ft) 25 m (82 ft) 13 m (43 ft) 6 m (20 ft) **Operating Conditions** Less than 95% RH -30° C to $+60^{\circ}$ C (-22° F to $+140^{\circ}$ F), Installation Angle Storage Conditions Less than 95% RH Pan: 0° to 360° **Ingress Protection** IP67 Range Tilt: 0° to 90° Rotation: 0° to 360°

Video

Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)		
Streaming Capa	ability	Two (2) Streams		
Resolution		4 MP (2688 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 720p (1280 x 720), VGA (640 x 480), D1 (704 x 480), CIF (352 x 240)		
Frame Rate	Main Stream	4 MP at 20 fps or 3 MP at 30 fps		
Frame Rate	Sub Stream	D1 at 30 fps		
Bit Rate Contro	l	CBR, VBR		
Day/Night		Auto (ICR), Color, B/W		
BLC Mode		BLC, HLC, True WDR (120 dB)		
Gain Control		Auto, Manual		
Noise Reduction		3D DNR		

Casing	Aluminium
Dimensions	ø93.40 mm × 79.40 mm (ø3.68 in. x 3.13 in.)
Net Weight	0.30 kg (0.66 lb)
Gross Weight	0.42 kg (0.93 lb)

Intelligence

Construction

IVS triggers an alarm and takes a defined 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. 			
Premium Features				
Motion An object moves through any part of the scen				
Tripwire A target crosses a user-defined line.				
Intrusion	A target enters or exits a defined perimeter.			

Technical Specification N84CL52 4K Network Camera Camera Image Sensor 1/2.5-in. 8 MP Progressive-scan STARVIS™ CMOS **Effective Pixels** 3840(H) x 2160(V) 512 MB/32 MB RAM/ROM Progressive Scanning System Auto, Manual, 1/3 s to 1/100,000 s Electronic Shutter Speed Color: 0.06 lux at F1.6 (1/3 s, 30 IRE) Minimum Illumination Color: 0.3 lux at F1.6 (1/30 s, 30 IRE) 0 lux at F1.6 (IR on) More than 50 dB S/N Ratio Distance up to 30 m (98.43 ft) IR Distance IR On/Off Control Auto, Manual 18 IR LEDs Lens Fixed Lens Type Mount Type Board-in Focal Length 2.8 mm Maximum Aperture F1.6 Horizontal: 112° Angle of View Vertical: 69° **Focus Control** Fixed Close Focus Distance 0.90 m (2.95 ft) Detect Observe Recognize Identify Lens DORI¹ Distance 69 m 28 m 14 m 7 m 2.8 mm (226 ft) (92 ft) (46 ft) (23 ft) Pan/Tilt/Rotation Pan: 0° to 355° Tilt: 0° to 64° Range Rotation: 0° to 355° Video Compression Smart H.265+, H.265, Smart H.264+, H.264 **Streaming Capability** Three (3) Streams 8 MP (3840 x 2160), 6 MP (3072 x 2048), 5 MP (2560 x 1920) 3 MP (2048 x 1536), Resolution 3 MP (2304 x 1296), 1080p (1920 x 1080), $1.3 \text{ MP} (1280 \times 960), 720 p (1280 \times 720),$ D1 (704 x 480), VGA (640 x 480), CIF (352 x 240) Main Stream: 8 MP at 15 fps or 3 MP at 30 fps Frame Rate Sub Stream 1: D1 at 30 fps

Day/Night	Auto (ICR), Color, B/W		
BLC Mode	BLC, HLC, True WDR (120 dB)		
White Balance	Auto, Natural, Street Lamp, Outdoor, Manual		
Gain Control	Auto, Manual		
Noise Reduction	3D DNR		
Motion Detection	Off, On (4 Zones, Rectangular)		
Region of Interest	Off, On (4 Zones)		
Smart IR	Support		
Digital Zoom	16x		
Flip	0°, 90°, 180°, 270°		
Mirror	Off, On		
Privacy Masking	Off, On (4 Areas, Rectangular)		
Audio			
Compression	G.711a, G.711Mu, AAC, G.726		
Network			
Ethernet	RJ-45 (10/100 Base-T)		
Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP		
Interoperability	ONVIF, PSIA, CGI		
Streaming Method	Unicast / Multicast		
Max. User Access	10 Users /20 Users		
Edge Storage	Network Attached Storage (NAS) Local PC for Instant Recording Micro SD Slot, maximum 128 GB		
Web Viewer	IE, Chrome, Firefox, Safari		
Management Software	SmartPSS, DSS		
Smart Phone	IOS, Android		
Certifications			
Safety	UL60950-1		
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B		

Sub Stream 2: 1080p at 30 fps

H.264: 24K to 10240 Kbps

H.265: 14K to 9984 Kbps

Bit Rate Control

Bit Rate

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 - 4K Network Camera, continued			
Audio	Input: One (1) Channel, RCA Output: One (1) Channel, RCA		
Alarm	Input: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC)		
Electrical			
Power Supply	12 VDC, 0.5 A or PoE (IEEE 802.3af, Class 0)		
Power Consumption	< 5.5 W		
Environmental			
Operating Temperature	-30° C to +60° C (-22° F to +140° F) Less than 95% RH		
Storage Temperature	-30° C to +60° C (-22° F to +140° F) Less than 95% RH		
Ingress Protection	IP67		
Vandal Resistance	IK10		
Construction			
Casing	Metal		
Dimensions	ø109.90 mm x 81.0 mm (ø4.33 in. x 3.19 in.)		
Net Weight	0.41 kg (0.91 lb)		
Gross Weight	0.53 kg (1.17 lb)		

Intelligence

IVS triggers an alarm and takes a defined 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. 		
Premium Features			
Motion	An object moves through any part of the scene.		
Tripwire	A target crosses a user-defined line.		
Intrusion	A target enters or exits a defined perimeter.		
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.		
Abandoned/Missing	A target leaves an object in designated area, or a target		

National Pose	Technical Specification		Video Detection and Alarm			
Main Processor			Trigger Events	The state of the s		
Operating System Febrodied LIMIX Playback 1/4/9 Audio and Vicle IB Camera Input Eight (B) Channels Playback 1/4/9 IP Camera Input One (I) Channel, RCA Search Mode Immode, Search (Input) Audio Output One (I) Channel, RCA Playback Function Playpack Spon, Deepind, Eart Play, Slow Play, Nett. Play Playback Function Record Internal Roll Smart H, 26%, H, 26%, Smart H, 26%, H, 264 Sackup Mode USB Device/Network Supported IP Camera Shift, MR, 4 MP, 3 MP, 1080p, 13 MP, 700p, SSSH, D1, CIF Backup Mode USB Device/Network Supported IP Camera Shift, MR, 4 MP, 3 MP, 1080p, 13 MP, 700p, SSSH, D1, CIF Internal HDD One (1) SATA III Plott, up to 6 TB Unit dhips with a pare installed 3 TB HDD Maximum Becord III Roth 36 Khpt to 20 Mbps per channel HDD Mode Single Record Mode 31 Menual, Schedule (Regular, Comtinues), Pre-recards 1 a to 3 30, Pre-			Quad-core Embedded Processor	Video Detection		
Audio and Vide				Playback and Backup		
P Camera Input					1/4/9	
Input	IP Camera Inpu	ıt	Eight (8) Channels	·		
Qutput	·	Input		Search Mode		
Recording	Audio	Output	One (1) Channel, RCA	0. 1. 1.5		
Recording	Two-way Talk		Reuse Audio In/Out, RCA	Playback Function	Full Screen, Repeat, Shuffle, Backup Selection, and	
Supported IP Camera Resolution 96.N. p. 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p, 96.N. p. 10. CIF Maximum Recording Rate 80 Mbps Record Mode 16 Kpps to 20 Mbps per Channel Manual, Schedule (Regular, Continuos), Motion Detection, Tampering, Video Loss, Stop Record Interval 10 10 120 minutes (default: 60 minutes), Prost-record: 10 s to 30 s, Post-record: 10 s to 30 s s Post-record: 10 s to 30 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s s Post-record: 10 s to 10 s to 30 s to 30 s to 30 s to 30 s Post-record: 10 s to 10 s to 30	Recording			Backup Mode	-	
Supported IP Camera 8 MM-P. S. MP, S. MP, S. MP, 1800p, 1.3 MP, 1200p, 960H, DI, CIF Internal HDD One (1) SATA III Port, up to 6 TB Unit ships with a pre-installed 3 TB HDD Maximum Recording Rate 80 Mbps HDD Mode Single Bit Rate 16 K bps to 20 Mbps per Channel Auxiliarry Interface Record Mode Manual, Schedule (Regular, Continuos), Motion Detection, Tampering, Video Loss, Stop USB Two (2) USB 2.0 Ports (1 front panel, 1 rear panel) Record Interval Interface (sefault-60 minutes), Pre-record: 1 s to 30 s. Port-record: 1 s to 30 s. Port-record: 1 s to 30 s. Pre-record: 1	Compression		Smart H.265+, H.265, Smart H.264+, H.264	Storage		
Maximum Recording Rate Bit Rate 16 Kbps to 20 Mbps per Channel Record Mode Record Mode Record Mode Record Mode Record Interval 10 10 10 minutes (default: 60 minutes), Pre-record: 1 to 10 so 300 s Persecord: 1 to 10 so		Camera				
Bit Rate 16 Kbps to 20 Mbps per Channel Auxiliary Interface Record Mode Manual, Schedule (Regular, Continuos), Motion Detection, Tampering, Video Loss, Stop USB Two (2) USB 2.0 Ports (1 front panel, 1 rear panel) Record Interval 1 to 120 minutes (default: 60 minutes), Pre-record: 1s to 30 s, Pre-record: 1s to 30 s, Pre-record: 10 s to 300 s Power Supply 48 VDC, 1.5 A Post-record: 10 s to 300 s Power Consumption, NVR < 8.3 W, without HDD	Maximum Rec	ording Rate	80 Mbps	HDD Mode		
Record Mode Manual, Schedule (Regular, Continuos), Motion Detection, Tampering, Video Loss, Stop Pre-record: 1 s to 30 s, Post-record: 1 s to 30 s, Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Consumption, NVR 2.5 S W single port, 80 W total Construction Construction Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Power 2.5 S W single port, 80 W total Total PoE Po	Bit Rate		16 Kbps to 20 Mbps per Channel		5	
Record Interval Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Display Interface One (1) HDMI One (1) VGA Native Output (1280 x 720) Maximum Decoding Pre-record: 10 s to 300 fs Power Supply A8 VDC, 1.5 A Power Supply 48 VDC, 1.5 A Power Consumption, NVR 48.3W, without HDD Total PoE Power 25.5 W single port, 80 W total Construction Dimensions 270.0 mm x 204.70 mm x 45.70 mm (10.60 in. x 8.10 in. x 1.80 in.) Net Weight 0.65 kg (1.43 lb), without HDD Gross Weight 1.80 kg (3.97 lb), without HDD Environmental One (1) RJ 8/9 Environmental Operating Conditions 3 100 to 45.5° C (14° F to +131° F), 86 kpa to 106 kpa Storage Conditions 3 10° C to +55° C (14° F to +158° F), 0% to 90% RH Certifications Vertical Power 25.5 W single port, 80 W total Certifications Safety UL 60950-1, EN 60950-1 Electrical Power 25.5 W single port, 80 W total Certifications Safety UL 60950-1, EN 60950-1 Electrical Power 25.5 W single port, 80 W total Certifications Safety UL 60950-1, EN 60950-1 Electrical Power 25.70 mm x 204.70	Record Mode				T (0),100,000 , (4.5 ,	
Record Interval Pre-record: 1 s to 30 s. Post-record: 10 s to 300 s Display Display One (1) HDMI One (1) VGA Native Output (2280 x 720) VGA 1920 x 1080, 1280 x 1024, 1280 x 720 Maximum Decoding For (14) Channels of 8 MP at 30 fps Four (14) Channels of 4 MP at 30 fps Filipht (8) Channels of 1080p at 30 fps Filipht (100 fps filipht (100 fps filipht (100 fps fi					Two (2) USB 2.0 Ports (1 front panel, 1 rear panel)	
Display Display	Record Interval		Pre-record: 1 s to 30 s,	Electrical		
Interface One (1) HDMI One (1) VGA Native Output YGA Resolution Maximum Decoding I Total PoE Power One (2) Channels of 8 MP at 30 fps Four (4) Channels of 4 MP at 30 fps Eight (8) Channels of 1080p at 30 fps Eight (8) Channels of 1080p at 30 fps Network Interface One (1) RJ45 (10/100 Mbps) Port PoE Four (4) Pota Milti-screen Display Network Function Network Function One (1) RJ45 (10/100 Mbps) Port Four (4) Pota Milti-screen Display Network Function Network Function One (1) RJ45 (10/100 Mbps) Port Four (4) Pota Milti-screen Display One (1) RJ45 (10/100 Mbps) Port Four (4) Pota Milti-screen Display Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording Network Function Network Function Network Function Network Function One (1) RJ45 (10/100 Mbps) Port Four (4) Pota (IEEE 802.3af/at) Certifications Safety UL 60950-1, EN 60950-1 FCC Part 15 Subpart B, ANSI (63.4-2014 EN 55032, EN 50130-4 Immunity Enwinting FCC Part 15 Subpart B, ANSI (63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024			POSE-TECOTO: 10 \$ to 500 \$	Power Supply	48 VDC, 1.5 A	
Native Output Resolution VGA 3840 x 2160, 2560 x 1440, 1920 x 1080, 1280 x 1024, 1280 x 720 Construction Native Output 1280 x 720 VGA 1920 x 1080, 1280 x 1024, 1280 x 720 Maximum Decoding - Two (2) Channels of 8 MP at 30 fps - Four (4) Channels of 1 MP at 3			One (1) HDMI	Power Consumption, NVR	< 8.3 W, without HDD	
On-screen Display Network Interface One (1) RJ45 (10/100 Mbps) Port PoE Four (4) Ports (IEEE 802.3af/at) Network Function Network Function Network Function 1280 x 720 1270.0 mm x 204.70 mm x 45.70 mm (10.60 in. x 8.10 in. x 1.80 in.) Net Weight O.65 kg (1.43 lb), without HDD Gross Weight 1.80 kg (3.97 lb), without HDD Environmental Operating Conditions Operating Conditions Storage Conditions -10° C to +55° C (+14° F to +131° F), 86 kpa to 106 kpa To +50° C (+14° F to +131° F), 86 kpa to 106 kpa Storage Conditions Certifications Safety UL 60950-1, EN 60950-1 Electromagnetic Compatibility (EMC) FOC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024	Interface			Total PoE Power	25.5 W single port, 80 W total	
Dimensions 2700 mink 29-7,0 mi		HDMI		Construction		
• Eight (8) Channels of 1080p at 30 fps Multi-screen Display 1/4/8/9 Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording Network Interface One (1) RI45 (10/100 Mbps) Port PoE Four (4) Ports (IEEE 802.3af/at) Network Function Network Function Maximum User Access 128 Users Fight (8) Channels of 1080p at 30 fps Gross Weight 1.80 kg (3.97 lb), without HDD Environmental Operating Conditions -10° C to +55° C (+14° F to +131° F), 86 kpa to 106 kpa -20° C to +70° C (-4° F to +158° F), 0% to 90% RH Certifications Safety UL 60950-1, EN 60950-1 Electromagnetic Compatibility (EMC) FCC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024	Resolution	VGA		Dimensions		
Multi-screen Display 1/4/8/9 Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording Network Interface One (1) RJ45 (10/100 Mbps) Port PoE Four (4) Ports (IEEE 802.3af/at) Network Function Network Function Maximum User Access 128 Users Gross Weight 1.80 kg (3.97 lb), without HDD Environmental Operating Conditions Storage Conditions Storage Conditions Certifications Safety UL 60950-1, EN 60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024	Maximum Dec	oding	• Four (4) Channels of 4 MP at 30 fps	Net Weight	0.65 kg (1.43 lb), without HDD	
On-screen Display Network Interface One (1) RJ45 (10/100 Mbps) Port PoE Four (4) Ports (IEEE 802.3af/at) Network Function HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS) Maximum User Access L28 Users Environmental Operating Conditions -10° C to +55° C (+14° F to +131° F), 86 kpa to 106 kpa -20° C to +70° C (-4° F to +158° F), 0% to 90% RH Certifications Certifications Safety UL 60950-1, EN 60950-1 Electromagnetic Compatibility (EMC) FCC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024	Multi-screen D	isnlav		Gross Weight	1.80 kg (3.97 lb), without HDD	
Network Interface One (1) RJ45 (10/100 Mbps) Port PoE Four (4) Ports (IEEE 802.3af/at) Network Function Network Function Maximum User Access 128 Users Motion Detection, Recording Operating Conditions Operating Conditions Storage Conditions Storage Conditions Certifications Certifications Safety UL 60950-1, EN 60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024	Multi-screen b	пэріаў		Environmental	Environmental	
Interface One (1) RJ45 (10/100 Mbps) Port PoE Four (4) Ports (IEEE 802.3af/at) Certifications HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS) Maximum User Access 128 Users Inmunity Storage Conditions Certifications Safety UL 60950-1, EN 60950-1 FCC Part 15 Subpart B, ANSI C63.4-2014 EN 55032, EN 50130-4 Immunity EN 55024		olay		Operating Conditions	, , , , , , , , , , , , , , , , , , , ,	
PoE Four (4) Ports (IEEE 802.3af/at) PoE Four (4) Ports (IEEE 802.3af/at) Certifications Safety UL 60950-1, EN 60950-1 Electromagnetic Compatibility (EMC) Maximum User Access 128 Users Inmunity EN 55024			2 (1) 21/5 (10/4021)	Storage Conditions		
Network Function HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS) Maximum User Access 128 Users Immunity Electromagnetic Compatibility (EMC) Electromagnetic Compatibility (EMC) Electromagnetic Compatibility (EMC) EN 55032, EN 50130-4 EN 55024					0% to 90% RH	
Network Function SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, SNMP, IP Search (Support Dahua IP camera, DVR, NVS) Maximum User Access 128 Users Immunity Electromagnetic Compatibility (EMC) Electromagnetic Compatibility (EMC) Electromagnetic Compatibility (EMC) EN 55032, EN 50130-4 EN 55024	PUE	PoE Four (4) Ports (IEEE 802.3af/at)		Certifications	Certifications	
Maximum User Access 128 Users Los, Android Compatibility (EMC) EN 55032, EN 50130-4 EN 55024 EN 55024	Network Function		SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP,		FCC Part 15 Subpart B,	
Mobile Operating System IOS, Android	Maximum User Access		128 Users	Compatibility (EMC)	EN 55032, EN 50130-4	
Interoperability ONVIF 2.4, SDK, CGI	Mobile Operat	ing System	IOS, Android	Immunity	EN 55024	
	Interoperabilit	у	ONVIF 2.4, SDK, CGI			

Ordering Information			
Туре	Part Number	Description	
4K Network Security System	N448D42	 4 x 4 MP IR Eyeball Network Cameras 2 x 4K IR Dome Network Cameras 1 x 8-channel 4K NVR, 3 TB 	
	PFA13A-E	Junction Box (For use alone)	
4 MP Camera	PFA152-E	Pole Mount (For use with PFB204W wall mount)	
Accessories, optional	PFB204W	Wall Mount (For use alone or with PFA152 pole mount)	
	DH-PFM321D-US	12 VDC, 1 A Power Adapter	
	PFA136	Junction Box	
	PFA152-E	Pole Mount	
4K Camera Accessories, optional	PFA200W	Sun/Rain Shield	
	PFB203W	Wall Mount	
	DH-PFM321D-US	12 VDC, 1 A Power Adapter	

Camera Accessories

Optional:







PFA136 Junction Box



PFA152-E Pole Mount



PFA200W Sun/Rain Shield



PFB203W Wall Mount



PFB204W Wall Mount



DH-PFM321D-US Power Adapter

Installation - 4 MP Network Camera

Junction Mount	Pole Mount
PFA13A-E	PFB204W + PFA152-E
Wall Mount	
PFB204W	

Installation - 4K Network Camera

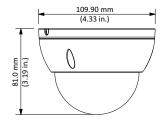
Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152-E	
Wall Mount		
PFB203W		
	Pole Mount with Rain Shade	
	PFA136 + PFA152-E + PFA200W	
Junction Box with Rain Shade PFA136 + PFA200W	PFA136 + PFA152-E + PFA200W	

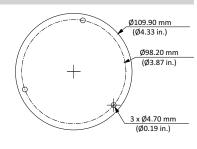


Dimensions (mm/in.) - 4 MP Network Camera ø93.40 mm (ø3.68 in.) ø68.0 mm (ø2.68 in.) 79.40 mm (3.13 in.)

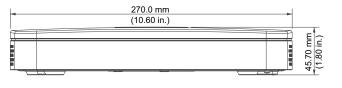
4 x ø4.50 mm (ø0.18 in.)

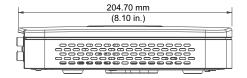
Dimensions (mm/in.) - 4K Network Camera



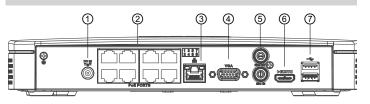


Dimensions (mm/in.) - 4K NVR





Rear Panel - 4K NVR



1	VDC Power In	5	Audio Input/Output
2	PoE Ports x 8	6	HDMI Output
3	Network Port	7	USB Ports x 2
4	VGA Output		

