

4MP Starlight Network Security System

Four (4) 4MP Eyeball Network Cameras (Black Housing) with One (1) 4-channel 4K NVR



System Overview

The Dahua Network 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

Starlight Technology

For challenging low-light applications, Dahua's Starlight Technology captures details in low light applications. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Intelligent Video System

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations and intrusion detection. A camera with IVS quickly and accurately responds to monitoring events in a specific area. Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels.

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).

4MP Network Cameras

- 4MP (2560 x 1440) at 30 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Maximum IR Length 30 m (98 ft) with Smart IR
- Starlight Technology for Ultra Low-light Applications
- Built-in Microphone
- Intelligent Video System
- IP67 Environmental Protection

4K Network Video Recorder

- 2 TB Pre-installed Hard Disk Drive
- Supports Remote Configuration and Management of IP Cameras
- Smart H.265+ and Smart H.264+ Dual Codec
- Up to 8MP Resolution for Preview and Playback
- 80 Mbps Incoming Bandwidth

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.

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.

Environmental

With a temperature range of -40° C to $+60^{\circ}$ C (-40° 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			
N42BJ62-B 4MP Network Camera			
Camera			
Image Sensor	1/3-in. CMOS		
Effective Pixels	2688 (H) x 1520 (V), 4MP		
ROM/RAM	128 MB / 128 MB		
Scanning System	Progressive		
Electronic Shutter Speed	Auto, Manual: 1/30 s to 1/100000 s		
Minimum Illumination	mum Illumination Color: 0.008 lux at F1.6 0 Lux with IR on		
IR Distance	Up to 30.0 m (98.43 ft)		
IR On/Off Control	Auto, Manual		
IR LEDs	Two (2)		
Lens			
Lens Type	Fixed-focal		
Mount Type	M12		
Focal Length	2.8 mm		
Max Aperture	F1.6		
Angle of View	Horizontal: 102° Vertical: 55° Diagonal: 121°		
Iris	Fixed Aperture		
Close Focus Distance 0.90 m (2.95 ft)			
DONI Distance			

DORI¹ Distance

Detect	Observe	Recognize	Identify
(8 ppf)	(19 ppf)	(38 ppf)	(76 ppf)
56.0 m (183.73 ft)	22.40 m (73.49 ft)	11.20 m (36.75 ft)	5.60 m (18.37 ft)

Installation Angle

	Pan: 0° to 360°
Range	Tilt: 0° to 78°
	Rotation: 0° to 360°

Video

Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B MJPEG (sub stream only)	
Streaming Capa	bility	Two (2) Streams	
Resolution		4MP (2688 x 1520), 2560 x 1440, 2304 x 1296, 1080p (1920 x 1080), 1.3MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480); VGA (640 ×480); CIF (352 x 240)	
Frame Rate	Main Stream	2688 x 1520 at 20 fps or 2560 x 1440 at 30 fps	
riaille Kate	Sub Stream	D1 (704 x 480) at 30 fps	
Bit Rate Control		CBR, VBR	
Day/Night		Auto (ICR), Color, B/W	
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		3D DNR	

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.

Motion Detection Off, On (4 Zones) Region of Interest Off, On (4 Zones) Smart IR Auto, Manual Digital Zoom 16x Flip 0°, 90°, 180°, 270° Mirror Off, On Privacy Masking Off, On (4 Areas, rectangular) Network Ethernet RJ-45 (10/100 Base-T) Protocol HTTR, HTTP, STCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4/V6, QuS, UPPR, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMF, SNMP Interoperability ONVIF (Profile S, G, T), CGI, P2P Auto Register Support Streaming Method Unicast, Multicast Maximum User Access 20 Users / 20 Hosts Edge Storage Network Attached Storage (NAS), FTP, SFTP, Micro SD Card slot (maximum 256 GB) Web Viewer IE, Chrome, Firefox Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Audio Input Built-in Microphone Audio Compression G.711A, G.711Mu, G.726 Certifications Safety Electromagnetic Compatibility Directive 2014/30/EU Electrical <t< th=""><th></th><th></th></t<>			
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Mirror Off, On Privacy Masking Off, On (4 Areas, rectangular) Network Ethernet RJ-45 (10/100 Base-T) HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4/v6, QoS, UPPR, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNNP Interoperability ONVIF (Profile S, G, T), CGI, P2P Auto Register Support Streaming Method Unicast, Multicast Maximum User Access 20 Users /20 Hosts Edge Storage Network Attached Storage (NAS), FTP, SFTP, Micro SD Card slot (maximum 256 GB) Web Viewer IE, Chrome, Firefox Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Audio Input Built-in Microphone Audio Compression G.711A, G.711Mu, G.726 Certifications Safety EN 60950-1 Electromagnetic Compatibility (EMC) Electrical Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption < 6.6 W Environmental Operating Conditions —40° C to +60° C (~40° F to +140° F), Less than 95% RH Storage Conditions —40° C to +60° C (~40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø12.190 mm × 99.10 mm (ø4.80 in. x 3.90 in.) Net Weight O.48 kg (1.10 lb) Gross Weight O.48 kg (1.10 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: **Tampering with the camera.** **Tampering with the c	Digital Zoom	16x	
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Streaming Method Maximum User Access 20 Users / 20 Hosts Edge Storage Network Attached Storage (NAS), FTP, SFTP, Micro SD Card slot (maximum 256 GB) Web Viewer IE, Chrome, Firefox Management Software Smart PSS, DSS, DMSS Mobile Operating System Audio Input Built-in Microphone Audio Compression G.711A, G.711Mu, G.726 Certifications Safety EN 60950-1 Electromagnetic Compatibility (EMC) Electrical Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption C6.6 W Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F), less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: **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.**	Interoperability	ONVIF (Profile S, G, T), CGI, P2P	
Maximum User Access Edge Storage Network Attached Storage (NAS), FTP, SFTP, Micro SD Card slot (maximum 256 GB) Web Viewer IE, Chrome, Firefox Management Software Smart PSS, DSS, DMSS Mobile Operating System IOS, Android Audio Input Built-in Microphone Audio Compression G.711A, G.711Mu, G.726 Certifications Safety EN 60950-1 Electromagnetic Compatibility (EMC) Electrical Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption 4.0° C to +60° C (-40° F to +140° F), Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: **Error writing to an onboard Micro SD card. Error sending or receiving data over the network. • Unauthorized access to the camera.	Auto Register	Support	
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Audio Input Built-in Microphone Audio Compression G.711A, G.711Mu, G.726 Certifications Safety EN 60950-1 Electromagnetic Compatibility (EMC) CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility (EMC) Electrical Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption < 6.6 W Environmental Operating Conditions —40° C to +60° C (-40° F to +140° F), Less than 95% RH Storage Conditions —70° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Management Software	Smart PSS, DSS, DMSS	
Input Audio Compression G.711A, G.711Mu, G.726 Certifications Safety EN 60950-1 Electromagnetic Compatibility (EMC) Electrical Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption < 6.6 W Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F), Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 1.5 triggers an alarm and takes a defined action for the following events: **Error writing to an onboard Micro SD card.** Error sending or receiving data over the network.* Unauthorized access to the camera.	Mobile Operating System	IOS, Android	
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Electrical Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption < 6.6 W Environmental Operating Conditions	Safety	EN 60950-1	
Power Supply 12 VDC or PoE (IEEE 802.3af, Class 0) Power Consumption < 6.6 W Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F), Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.		·	
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Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F), Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Power Supply	12 VDC or PoE (IEEE 802.3af, Class 0)	
Operating Conditions -40° C to +60° C (-40° F to +140° F), Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection IP67 Construction Casing Metal Dimensions ø121.90 mm × 99.10 mm (ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Power Consumption	< 6.6 W	
Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Ingress Protection Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Environmental		
Ingress Protection Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Operating Conditions	•	
Construction Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Storage Conditions	-40° C to +60° C (-40° F to +140° F)	
Casing Metal Dimensions Ø121.90 mm × 99.10 mm (Ø4.80 in. x 3.90 in.) Net Weight 0.48 kg (1.10 lb) Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Ingress Protection	IP67	
Dimensions	Construction		
Net Weight O.48 kg (1.10 lb) Gross Weight O.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Casing	Metal	
Gross Weight 0.65 kg (1.40 lb) Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Dimensions	ø121.90 mm × 99.10 mm (ø4.80 in. x 3.90 in.)	
Intelligence IVS triggers an alarm and takes a defined action for the following events: • 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.	Net Weight	0.48 kg (1.10 lb)	
IVS triggers an alarm and takes a defined action for the following events: • 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.	Gross Weight	0.65 kg (1.40 lb)	
 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. 	Intelligence		
• Error writing to an onboard Micro SD card. • Error sending or receiving data over the network. • Unauthorized access to the camera.	IVS triggers an alarm and takes a defined action for the following events:		
Premium Features	Standard Features	Error writing to an onboard Micro SD card.Error sending or receiving data over the network.	
	Premium Features		

A target crosses a user-defined line.

A target enters or exits a defined perimeter.

Tripwire

Intrusion

Technical Specification		Third-party Support		
N41C1P2 4K NVR System		Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others	
Main Processor	Industrial-grade Embedded Processor	Network		
Operating System	Embedded Linux	Ethernet	One (1) RJ-45 Port (10/100 Mbps), Self-adaptive	
Audio and Video		PoE	Four (4) Ports (IEEE802.3af/at)	
IP Camera Input	Four (4) Channels		HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP;	
Audio	Input: One (1) Channel, RCA Output: One (1) Channel, RCA	Network Function	UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS); P2P; Auto register	
Display		Maximum User Access	128	
Interface	One (1) HDMI One (1) VGA	Mobile Operating System	IOS, Android	
Native Output Baselution		Browser	Chrome, IE 9 or later	
Native Output Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720	Interoperability	ONVIF Profiles S,T,G; CGI, SDK	
Maximum Decoding	Two (2) Channel of 8 MP at 30 fps Four (4) Channels of 4 MP at 30 fps	Storage		
Multi-screen Display	1/4		One (1) SATA III Port,	
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	Internal HDD	Up to 10 TB capacity per HDD (Ships with a pre-installed 2 TB HDD)	
Recording		HDD Mode Single		
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Auxiliary Interface		
Audio Compression	PCM, G.711A, G.711Mu, G.726	USB	Two (2) USB 2.0 Ports (rear panel)	
Supported IP Camera Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1	Electrical		
Maximum Recording Bandwidth	80 Mbps	Power Supply	48 VDC, 1.25 A	
Record Mode	Manual Recording; Alarm Recording;	NVR Power Consumption	< 10 W, without HDD	
SMD Recording; Smart Recording		Total PoE Budget	25.5 W single port, 36 W total	
Video Detection and Alarr	n	Environmental		
General Alarms	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm	Operating Conditions	-10° C to +50° C (+14° F to +122° F), 10% to 93% RH	
	Camera disconnection, storage error, disk full, IP	Storage Conditions	0° C to +40° C (32° F to 104° F), 30% to 85% RH	
Anomaly Alarms	conflict, MAC conflict, login locked, and cybersecurity exception	Construction		
Analytics+ Alarms	Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms	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.)	
Alarm Actions	Recording, snapshot, audio, buzzer, log, preset, and	Net Weight	0.50 kg (1.10 lb), without HDD	
email		Gross Weight 1.43 kg (3.15 lb), without HDD		
Playback and Backup		Certifications		
Sync Playback	1/4 Time/Date, Alarm, MD and Exact Search (accurate to	Safety	EN62368-1 UL 62368-1	
Search Mode	one second), Smart Search		CAN/CSA C22.2 No.62368-1-14	
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	Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B EN55032, EN55024, EN55035, EN61000-3-2, EN61000 3-2, EN5130-4	
Backup Mode	USB Device, Network		EN61000-3-3, EN50130-4	

Ordering Information			
Туре	Part Number Description		
	NB444E42B		
4MP Network Security System	• N42BJ62-B	4MP IR Eyeball Network Cameras, Black Housing (x4)	
	• N41C1P2	4-channel 4K NVR, 2 TB (x1)	
Camera Accessories, optional	DH-PFA130-E-B	Junction Box, black (For use alone)	
	DH-PFA151-B	Corner Mount, black (For use with DH-PFB203W-B wall mount)	
	DH-PFA152-E-B	Pole Mount, black (For use with DH-PFB203W-B wall mount)	
	DH-PFB203W-B	Wall Mount, black (For use alone or with DH-PFA152-E-B)	
	DH-PFM321D-US	12 VDC, 1 A Power Adapter	

Package Contents	(individual devices ship with the following:)
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Product	Material
Network Cameras	Printed Manual Printed Regulatory Guide Plastic Wall Anchors with Screws (x3) Mounting Template Waterproof Ethernet Connector
Storage Device	Quick Network Guide Printed Manual Printed Regulatory Guide Mouse Power Adapter with Power Cord Ethernet Cable, RJ-45 Rubber Feet (x4)

Camera Accessories (Optional)



DH-PFA130-E-B Waterproof Junction Box



DH-PFA151-B Corner Mount



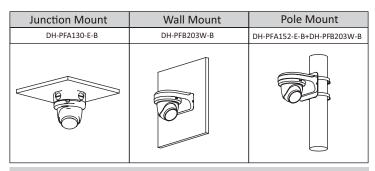
DH-PFA152-E-B Pole Mount



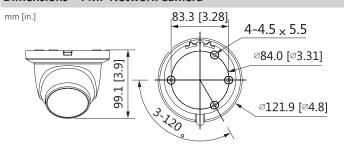
DH-PFB203W-B Wall Mount



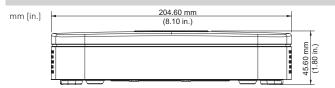
DH-PFM321D-US Power Adapter

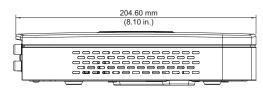


Dimensions - 4 MP Network Camera

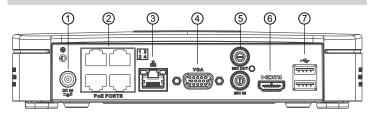


Dimensions - 4K NVR





Rear Panel - 4K NVR



1	Power Input	5	Audio Output MIC Input
2	PoE Ports, RJ-45 (x4)	6	HDMI Output
3	Network Port, RJ-45	7	USB 2.0 Ports (x2)
4	VGA Output		

