

4K IR Vari-focal ePoE Eyeball

WDR IR Eyeball Network Camera



System Overview

The 4K eyeball camera features an advanced 1/2.5-in. STARVIS™ imager with a 2.7 mm to 12 mm vari-focal lens. The camera offers True Wide Dynamic Range, a True Day/Night IR Cut filter, IP67 Ingress Protection and operation in extreme temperatures to deliver superior images in most environmental conditions. The camera is a component of Dahua's innovative Enhanced Power over Ethernet (ePoE) system that transmits power and data over long distances without the need for repeaters or multiple switches.

Functions

Enhanced Power over Ethernet (ePoE) Technology

Dahua's innovative ePoE technology offers a plug-and-play solution to transmit power and data over long distances via Ethernet or coaxial cables, reducing installation time and saving money. ePoE technology is a viable, cost-effective solution for extending transmission distances and for converting existing, coax-based analog systems into IP systems. For video security and surveillance installers, ePoE technology saves time and money by reducing overall cabling requirements, allowing for existing coax cable to be used, and minimizing the number of peripheral devices needed. For new installations, ePoE offers the ability to design long-distance applications without the need for additional repeaters.

Enhanced PoE encompasses pure IP systems where a single CAT 5 cable can carry signals up to 800 m (2624 ft), and IP/Analog hybrid systems where the technology leverages existing analog infrastructure to transmit power and data up to 1000 m (3281 ft) over RG59 coaxial cable. Enhanced PoE is compatible with three connection modes operating over the same network simultaneously: traditional IP networks, long-distance ePoE networks and coaxial networks. ePoE technology seamlessly integrates the latest high-definition IP cameras with a coaxial infrastructure using the Ethernet over Coaxial (EoC) protocol to convert between analog and IP power and data transmissions.

- 1/2.5-in. 8 MP Progressive-scan STARVIS™ CMOS Sensor
- Dual Stream Encoding
- Smart H. 265+ and Smart H.264+ Dual Codec
- 8 MP (3840 x 2160) at 15 fps or 3 MP (2304 x 1296) at 30 fps
- 2.7 mm to 12 mm Motorized Optical Zoom Lens
- Enhanced Power and Data Transmission Distances (ePoE)
- Built-in Microphone
- True Wide Dynamic Range (120 dB) and True Day/Night (ICR)
- Maximum IR LED Distance 50 m (164 ft)
- IP67 Ingress Protection
- Intelligent Video System
- Five-year Warranty*











True Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

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 supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to $+60^{\circ}$ C (-22° F to $+140^{\circ}$ F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.



Technical Specification					
Camera					
Image Sensor		1/2.5-in. 8 MP Progressive-scan CMOS			
Effective Pixels		3840(H) x 2160			
RAM/ROM		512 MB/32 MB			
Scanning System	m	Progressive			
Electronic Shut		Auto, Manual,	1/3 s to 1/100,	000 s	
Minimum Illum	ination	Color: 0.05 lux at F1.4 (1/3 s, 30 IRE) Color: 0.2 lux at F1.4 (1/30 s, 30 IRE) 0 lux at F1.4 (IR on)			
S/N Ratio		More than 50 dB			
IR Distance		Distance up to	50 m (164.04 f	t)	
IR On/Off Conti	rol	Auto, Manual			
IR LEDs		Two (2)			
III LLD3		140 (2)			
Lens					
Lens Type		Motorized, Aut	o Iris (DC)		
Mount Type		Board-in			
Focal Length		2.7 mm to 12 m	nm		
Maximum Aperture		F1.4			
Angle of View		Horizontal: 110° to 40° Vertical: 58° to 23°			
Optical Zoom		4x			
Focus Control		Motorized			
Close Focus Dis	tance	0.30 m (0.98 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI¹ Distance	Wide	85 m (280 ft)	34 m (112 ft)	17 m (56 ft)	8.5 m (28 ft)
	Tele	228 m (748 ft)	91 m (299 ft)	46 m (151 ft)	23 m (75 ft)
Installation	Angle				
Range		Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°			
Video					
Compression		Smart H.265+, H.265, Smart H.264+, H.264			
Streaming Capa	bility	Three (3) Streams			
Resolution		8 MP (3840 x 2160), 6 MP (3072 x 2048), 5 MP (3072 x 1728), 5 MP (2592 x 1944), 4 MP (2688 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 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			
		Sub Stream 2: 720p at 30 fps			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 1024 Kbps to 6144 Kbps H.265: 256 Kbps to 4096 Kbps			
Day/Night		Auto (ICR), Color, B/W			
	BLC Mode		BLC, HLC, True WDR (120 dB)		

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 G.711a, G.711Mu, AAC, G.726 Network HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHP, DNS, DNS, PPPOE, IPV4/HG, QOS, UPPP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Maximum 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 Smart PSS, DSS Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) FCC CFR 47 Part 15 Subpart B Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0) Power Consumption	White Balance	Auto, Natural, Street Lamp, Outdoor, Manual
Motion Detection Region of Interest Off, On (4 Zones, Rectangular) Smart IR Support Digital Zoom 16x Flip O", 90", 180", 270" Mirror Off, On Privacy Masking Off, On (4 Areas, Rectangular) Audio Compression G.711a, G.711Mu, AAC, G.726 Network Ethernet R.4-45 (10/100 Base-T) HTTP, HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SMMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Maximum User Access I0 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 Smart PSS, DSS Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or POE (IEEE802.3af, Class 0)	Gain Control	Auto, Manual
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) HTTP, HTTP, 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 Maximum User Access I0 Users / 20 Users Metwork Attached Storage (NAS) Local PC for Instant Recording Micro SD Slot, maximum 128 GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or POE (IEEE802.3af, Class 0)	Noise Reduction	3D DNR
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) HTTP, HTTP, 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 Maximum User Access I0 Users / 20 Users Metwork Attached Storage (NAS) Local PC for Instant Recording Micro SD Slot, maximum 128 GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or POE (IEEE802.3af, Class 0)	Motion Detection	Off, On (4 Zones, Rectangular)
Smart IR Digital Zoom 16x Flip O', 90', 180', 270' Mirror Off, On Privacy Masking Off, On (4 Areas, Rectangular) Audio Compression G.711a, G.711Mu, AAC, G.726 Network Ethernet RI-45 (10/100 Base-T) HTTP, HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SMMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Maximum User Access I0 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 Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Region of Interest	
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 R.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 Maximum 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		
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, SMMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Maximum 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		
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) HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4/v6, QoS, UPRP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Maximum 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		0°. 90°. 180°. 270°
Audio Compression G.711a, G.711Mu, AAC, G.726 Network Ethernet RI-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 Maximum 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		
Audio Compression G.711a, G.711Mu, AAC, G.726 Network Ethernet RJ-45 (10/100 Base-T) 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 Maximum 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Privacy Masking	
Compression G.711a, G.711Mu, AAC, G.726 Network Ethernet RJ-45 (10/100 Base-T) HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SMMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Maximum User Access I0 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 Smart PSS, DSS Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		, , , , , ,
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 Maximum 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		G.711a, G.711Mu, AAC, G.726
Ethernet RJ-45 (10/100 Base-T) 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 Maximum User Access I0 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 Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		
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 Maximum User Access I0 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		RJ-45 (10/100 Base-T)
Streaming Method Unicast / Multicast Maximum User Access 10 Users / 20 Users 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP,
Maximum User Access 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Interoperability	ONVIF, PSIA, CGI
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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Streaming Method	Unicast / Multicast
Edge Storage 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) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Maximum User Access	10 Users / 20 Users
Management Software Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Edge Storage	Local PC for Instant Recording
Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Web Viewer	IE, Chrome, Firefox, Safari
Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Management Software	SmartPSS, DSS
Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Smart Phone	IOS, Android
Electromagnetic Compatibility (EMC) Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Certifications	
Interface Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Safety	UL60950-1
Audio Input: Built-in Microphone Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)		FCC CFR 47 Part 15 Subpart B
Electrical Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Interface	
Power Supply 12 VDC, 1 A or PoE (IEEE802.3af, Class 0)	Audio	Input: Built-in Microphone
	Electrical	
Power Consumption < 8.5 W	Power Supply	12 VDC, 1 A or PoE (IEEE802.3af, Class 0)
	Power Consumption	< 8.5 W

^{1.} 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.

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

Construction

Casing	Metal
Dimensions	ø122.0 mm x 104.0 mm (ø4.80 in. x 4.09 in.)
Net Weight	0.60 kg (1.32 lb)
Gross Weight	0.76 kg (1.67 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. Standard Features • 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. A person or object moves the camera to change the scene Scene Change or covers the camera to obscure the scene. Abandoned/Missing A target leaves an object in designated area, or a target Object removes an object from the same designated area.

ePoE Transmission Distances

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 48 V Maximum DC resistance < $10 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	33	E100
300 (984)	100	19	19	E100
400 (1312)	10	17	17	E10
500 (1640)	10	13	13	E10
800 (2625)	10	7	7	E10

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 53 V Maximum DC resistance < 10 $\Omega/100$ m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	47	E100
300 (984)	100	25.5	32	E100
400 (1312)	10	23	26	E10
500 (1640)	10	20	20	E10
800 (2625)	10	13	13	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 48 V

Maximum DC resistance < 5 $\Omega/100$ m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	50	IEEE/E100
200 (656)	100	25.5	30	E100
300 (984)	100	18	18	E100
400 (1312)	100	15	15	E100
500 (1640)	10	12	12	E10
800 (2625)	10	6	6	E10
1000 (3281)	10	5	5	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 53 V Maximum DC resistance < 5 Ω/100 m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	52	IEEE/E100
200 (656)	100	25.5	48	E100
300 (984)	100	25.5	30	E100
400 (1312)	100	20	23	E100
500 (1640)	10	16	16	E10
800 (2625)	10	10	10	E10
1000 (3281)	10	8	8	E10



Pro Series | N85CM5Z

Ordering Information				
Туре	Part Number	Description		
4K Network Camera	N85CM5Z	8 MP IR ePoE, Vari-focal Eyeball Network Camera, True WDR, IVS		
Mounting Accessories, optional	PFA137	Junction Box		
	PFA152-E	Pole Mount		
	PFB203W	Wall Mount		
	DH-PFM321D-US	12 VDC, 1 A Power Adapter		
ePoE Accessories, optional	LR1002	EoC Passive Converter		
	LR1002-1EC	Single-port EoC Receiver		
Accessories				

Accessories

Optional:



PFA137

Junction Box



PFA152-E

Pole Mount





PFB203W

Wall Mount





LR1002 EoC Passive Converter

LR1002-1EC Single-port EoC Receiver

ePoE Applications



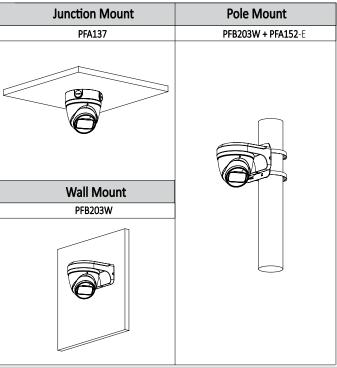






EoC with Single-port EoC Receiver





Dimensions (mm/in.)

