

4MP IR Vari-focal ePoE Dome

WDR IR Dome Network Camera



System Overview

The 4 MP dome camera features an advanced 1/3-in. Progressive-scan imager with a 2.7 mm to 13.5 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 all lighting and 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.

- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- Triple-stream Encoding
- Smart H. 265+ and Smart H.264+ Dual Codec
- 4 MP at 30 fps Maximum Resolution
- 2.7 mm to 13.5 mm Motorized Optical Zoom Lens
- Enhanced Power and Data Transmission Distances (ePoE)
- True Wide Dynamic Range (120 dB) and True Day/Night (ICR)
- Maximum IR LED Distance 50 m (164 ft)
- IP67 Ingress Protection and IK10 Vandal Resistance
- 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. The camera complies with the IK10 impact rating and is certified to rigorous dust and immersion tests (IP67), making the camera the choice for installation in even the most unforgiving environments.



Technical S ₁	pecificatio	n				
Camera						
		1/3-in. 4 MP Pro	ngressive-scar	CMOS		
Image Sensor			_	CIVIOS		
Effective Pixels		2688(H) x 1520	(V)			
RAM/ROM		512 MB/32 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto, Manual, 1	1/3 s to 1/100,	,000 s		
Minimum Illum	ination	Color: 0.03 lux at F1.4 (1/3 s, 30 IRE) Color: 0.3 lux at F1.4 (1/30 s, 30 IRE) 0 lux at F1.4 (IR on)				
S/N Ratio		More than 50 d	More than 50 dB			
IR Distance		Distance up to 5	50 m (164.04 f	ft)		
IR On/Off Contr	ol	Auto, Manual				
IR LEDs		Three (3)				
Lens						
Lens Type		Motorized, Auto	o Iris (DC)			
Mount Type		Board-in				
Focal Length		2.7 mm to 13.5 mm				
Maximum Aperture		F1.4				
Angle of View		Horizontal: 106° to 31° Vertical: 58° to 17°				
Optical Zoom		5x				
Focus Control		Motorized				
Close Focus Distance		0.30 m (0.98 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI¹ Distance	Wide	64 m (210 ft)	26 m (85 ft)	13 m (42 ft)	6.5 m (21 ft	
	Tele	208 m (682 ft)	83 m (272 ft)	41 m (136 ft)	20 m (68 ft	
Pan/Tilt/Rot	ation					
Range		Pan: 0° to 355° Tilt: 0° to 65° Rotation: 0° to 355°				
Video						
Compression		Smart H.265+, H	H.265, Smart H	H.264+, H.264		
Streaming Capa	bility	Three (3) Streams				
Resolution		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)				
Frame Rate		Main Stream: 4 MP at 30 fps				
		Sub Stream 1: D1 at 30 fps				
		Sub Stream 2: 720p at 30 fps				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 24 to 10240 Kbps H.265: 14 to 9984 Kbps				
Day/Night		Auto (ICR), Color, B/W				
BLC Mode		BLC, HLC, True WDR (120 dB)				

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 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, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4/v6, QoS, UPPP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SMMP 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 Smart PSS, DSS Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for installation adjustment only Interface Video One (1) Port, for installation adjustment only Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (SmA, 5 VDC) Power Supply Power Consumption < 15 W	White Balance	Auto, Natural, Street Lamp, Outdoor, Manual
Motion Detection Region of Interest Off, On (4 Zones, Rectangular) Smart IR Support Digital Zoom 16x Filip 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 RJ-45 (10/100 Base-T) HTTP, HTTP, ATCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4/V6, QOS, UPP, NTP, Benjour, 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 Slott, 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 Video One (1) Port, for installation adjustment only Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Gain Control	Auto, Manual
Region of Interest Off, On (4 Zones) 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 RI-45 (10/100 Base-T) HTTP, HTTP, STP, DAP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPPP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. 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 10S, Android Certifications Safety UL60950-1 Electromagnetic Compatibility ECC CFR 47 FCC Part 15 Subpart B Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Noise Reduction	3D DNR
Smart IR 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 RI-45 (10/100 Base-T) HTTP, HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/V6, QoS, UPP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. 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 Smart PSS, DSS Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Motion Detection	Off, On (4 Zones, Rectangular)
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, HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DMS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SMMP 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Region of Interest	Off, On (4 Zones)
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, DONS, 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE B02.3at, Class 4)	Smart IR	Support
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) 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 SIot, 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 Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1)	Digital Zoom	16x
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, UPPP, 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (S mA, 5 VDC)	Flip	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, UPP, 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (50 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Mirror	Off, On
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 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (S mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or POE+ (IEEE 802.3at, Class 4)	Privacy Masking	Off, On (4 Areas, Rectangular)
Richernet 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 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or POE+ (IEEE 802.3at, Class 4)	Audio	
Ethernet RI-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 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Compression	G.711a, G.711Mu, AAC, G.726
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 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 Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or POE+ (IEEE 802.3at, Class 4)	Network	
Protocol 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) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Ethernet	RJ-45 (10/100 Base-T)
Streaming Method Max. 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 Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Protocol	FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP,
Max. User Access I0 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 Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	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 Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	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 Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Max. User Access	10 Users /20 Users
Management Software Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Edge Storage	Local PC for Instant Recording
Smart Phone IOS, Android Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Web Viewer	IE, Chrome, Firefox, Safari
Certifications Safety UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for installation adjustment only Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Management Software	SmartPSS, DSS
Safety Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for installation adjustment only 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, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Smart Phone	IOS, Android
Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for installation adjustment only 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, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Certifications	
Interface Video One (1) Port, for installation adjustment only 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, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Safety	UL60950-1
Video One (1) Port, for installation adjustment only Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)		FCC CFR 47 FCC Part 15 Subpart B
Audio Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Interface	
Audio Output: One (1) Channel, RCA Input: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Video	One (1) Port, for installation adjustment only
Output: One (1) Channel (300 mA, 12 VDC) Electrical Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Audio	
Power Supply 12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	Alarm	
Poe+ (IEEE 802.3at, Class 4)	Electrical	
Power Consumption < 15 W	Power Supply	
	Power Consumption	<15 W

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
Vandal Resistance	IK10
Lightning Protection	6 KV

Construction

Casing	Metal
Dimensions	ø159.10 mm x 117.90 mm (ø6.26 in. x 4.64 in.)
Net Weight	0.95 kg (2.09 lb)
Gross Weight	1.20 kg (2.65 lb)

Intelligence

Object

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

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 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	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 $< 5 \Omega/100 \text{ m}$

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 $< 5 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	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



Ordering Information				
Туре	Part Number	Description		
4 MP Camera	N45CL5Z-B	4 MP IR ePoE, Vari-focal Dome Network Camera, True WDR, IVS, Black		
	PFA101	Mount Adapter		
	DH-PFA138-B	Junction Box, Black		
	PFA152-E	Pole Mount, Black		
Mounting Accessories,	PFB201C	In-ceiling Mount		
optional	PFB300C	Ceiling Mount		
	PFB302S	Wall Mount		
	DH-PFM320D-015	12 VDC, 2 A Power Adapter		
	HKKD-11108	24 VAC, 1.5 A Power Adapter		
ePoE Accessories,	LR1002	EoC Passive Converter		
optional	LR1002-1EC	Single-port EoC Receiver		

Accessories

Optional:





Mount Adapter



DH-PFA138-B Junction Box



PFB302S Wall Mount



PFA152-E Pole Mount



PFB201C In-ceiling Mount



PFB300C Ceiling Mount



DH-PFM320D-015 Power Adapter



HKKD-11108 Power Adapter



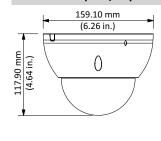


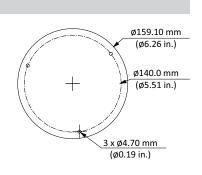


LR1002-1EC Single-port EoC Receiver

In-ceiling Mount **Junction Mount** PFA138-B PFA101 + PFB302S + PFA152-E Ceiling Mount Wall Mount PFA101 + PFB302S

Dimensions (mm/in.)





ePoE Applications

Pure Ethernet



Passive EoC



EoC with Single-port EoC Receiver





