

2 MP Night Color Bullet Network Camera

H.265 True WDR Bullet Network Camera



- 1/2.8-in. 2 MP Progressive-scan STARVIS™ CMOS Sensor
- Smart H.265+ and Smart H.264+ Dual Codec
- Triple-stream encoding
- 1080p at 30 fps Maximum Resolution, 3.6 mm Fixed Lens
- Smart Detection Supported
- True Wide Dynamic Range (120 dB)
- ArcticPro Series Camera - Operational down to -40°C (-40°F)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Intelligent Video System
- Enhanced Power and Data Transmission Distances (ePoE)
- Five-year Warranty*

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 CAT5E 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

ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components with a waterproof enclosure to ensure flawless operation in temperatures as low as -40°F (-40°C) without the need for an internal heater. The lack of a heater reduces the camera's power consumption and saves operating costs. For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

Environmental

The camera complies with the IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

System Overview

The Dahua camera with Night Color Technology offers 24-hour color surveillance in applications with at least 1 lux of ambient light. The Night Color Technology camera utilizes back-illuminated pixel technology, a large aperture lens, and a STARVIS™ sensor to deliver color details without the need for external IR or white-light illumination. This camera is ideal for monitoring casino floors, parking lots, building exteriors and interiors, educational facilities, and urban streets. The IP67 and the IK10 ratings ensure continuous operation in the harshest environments.

Functions

Night Color Technology

Dahua cameras with Night Color Technology incorporate a high-performance STARVIS™ sensor and a large aperture lens to produce crisp, clear color images in low light environments. This light-sensitive technology allows the camera to capture more available light and reproduce color images with superior detail and contrast. Dahua Night Color Technology cameras are ideal for applications with at least 1 lux of ambient or artificial light, including parking lots, schools, urban streets and museums.

True Wide Dynamic Range

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, offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

*Warranty applies to products sold through an authorized Dahua Dealer.

Technical Specification					
Camera					
Image Sensor	1/2.8-in. 2 MP Progressive-scan STARVIS™ CMOS				
Effective Pixels	1920(H) x 1080(V)				
RAM/ROM	256 MB/32 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto, Manual; 1/3 s to 1/100000 s				
Minimum Illumination	Color: 0.001 lux at F1.0 (1/3 s, 30 IRE) Color: 0.006 lux at F1.0 (1/30 s, 30 IRE)				
S/N Ratio	More than 50 dB				
Lens					
Lens Type	Fixed				
Mount Type	Board-in				
Focal Length	3.6 mm				
Maximum Aperture	F1.0				
Angle of View	Horizontal: 87° Vertical: 47°				
Focus Control	Fixed				
Close Focus Distance	1.60 m (5.30 ft)				
DORI ¹ Distance	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)
	3.6 mm	53 m (174 ft)	21 m (69 ft)	11 m (36 ft)	5 m (16 ft)
Installation Angle					
Range	Pan: 0° to 360° Tilt: 0° to 80° Rotation: 0° to 360°				
Video					
Compression	H.265, H.264, H.264B, H.264H, MJPEG (Sub Stream)				
Smart Codec	Smart H.265+, Smart H.264+				
Streaming Capability	Three (3) Streams				
Resolution	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: 1080 at 30 fps				
	Sub Stream 1: D1 at 30 fps				
	Sub Stream 2: 1080p at 30 fps				
Bit Rate Control	CBR/VBR				
Bit Rate	H.264: 24 K to 10240 Kbps H.265: 14 K to 9984 Kbps				
Day/Night	Color (default), Auto (Electronic), 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)				
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, RTCP, UDP, PPPOE, IEEE802.1X, SMTP, SNMP, FTP, DHCP, DNS, DDNS, PPPoE, IPV4/V6, QoS, UPnP, NTP, Bonjour, IEEE 802.1, Multicast, ICMP, IGMP, TLS, SSH, NFS				
Interoperability	ONVIF Profile S&G, API				
Streaming Method	Unicast, Multicast				
Maximum User Access	10 Users /20 Users				
Edge Storage	Network Attached Storage (NAS) Local PC for Instant Recording Micro SD Card Slot, 128 GB maximum				
Web Viewer	IE, Chrome, Firefox, Safari				
Management Software	Smart PSS, DSS, DMSS				
Mobile Operating System	IOS, Android				
Certifications					
Safety	UL 60950-1 EN 60950:2000				
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B				
Interface					
Audio	Input: One (1) Channel Output: One (1) channel				
Alarm	Input: One (1) Channel (5 mA, 5 VDC) Output: One (1) Channel (300 mA, 12 VDC)				
Electrical					
Power Supply	12 VDC, 1 A (±30%); PoE (802.3af, Class 0)				
Power Consumption	< 4 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	-40° C to +60° C (-40° F to +140° F) Less than 95% RH
Storage Temperature	-40° C to +60° C (-40° F to +140° F) Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	244.10 mm x 79.0 mm x 75.90 mm (9.61 in. x 3.11 in. x 2.99 in.)
Net Weight	0.82 kg (1.80 lb)
Gross Weight	1.08 kg (2.38 lb)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

Standard Features	<ul style="list-style-type: none"> 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 Object	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 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	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

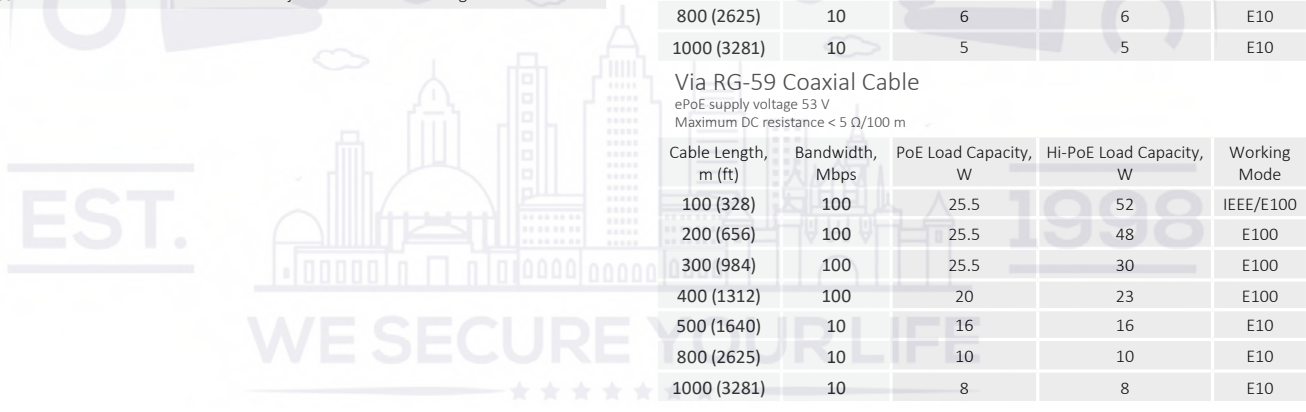
ePoE supply voltage 48 V
Maximum DC resistance < 5 Ω/100 m

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

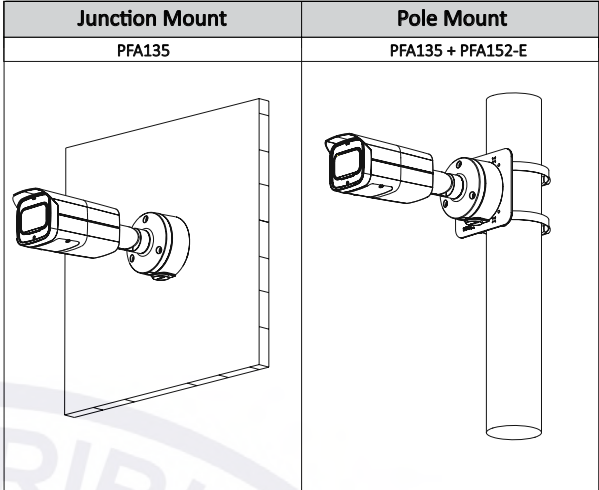
Via RG-59 Coaxial Cable

ePoE supply voltage 53 V
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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		
Type	Part Number	Description
2 MP Camera	DH-IPC-HFW4239TN-ASE	2 MP Night Color Bullet Network Camera, 3.6 mm, WDR, IVS
Accessories, optional	PFA135	Junction Box
	DH-PFA142	Outdoor Surveillance Junction Box
	DH-PFA153	Heavy-duty Pole Mount
	PFA152-E	Pole Mount
	DH-PFM321D-US	12 VDC, 1 A Power Adapter
ePoE Accessories, optional	LR1002	EoC Passive Converter
	LR1002-1EC	Single-port EoC Receiver



Accessories

Optional:



PFA135 Junction Box



DH-PFA142 Outdoor Surveillance Junction Box



DH-PFA153 Heavy-duty Pole Mount



PFA152-E Pole Mount



DH-PFM321D-US Power Adapter

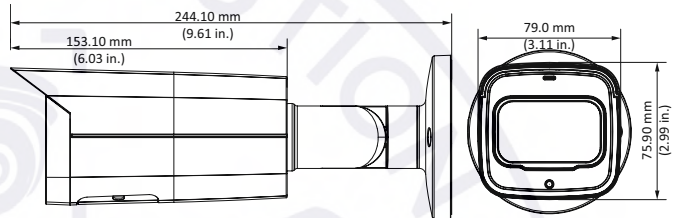


LR1002 EoC Passive Converter



LR1002-1EC Single-port EoC Receiver

Dimensions (mm/inch)



ePoE Applications

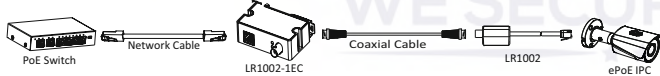
Pure Ethernet



Passive EoC



EoC with Single-port EoC Receiver



1998

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