

DH-PTZ12248V-LR8-N

2MP 48x Starlight Laser Network Positioning System



- · 1/1.9" 2Megapixel CMOS
- · Powerful 48x optical zoom
- Starlight technology
- · Support Triple-stream encoding
- · Max. 50/60fps@1080P
- $\cdot\,$ Auto-tracking and IVS
- IR Distance up to 1200m
- · IP66



System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

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.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



All-environment Series | DH-PTZ12248V-LR8-N

Technical Specification

Camera

Image Sensor	1/1.9" CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.001Lux@F1.4; 0Lux@F1.4 (IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 1200m(3937ft)
IR On/Off Control	Auto/Manual
IR LEDs	Laser module
Wiper	Support
Lens	
Focal Length	5.7mm~275mm
Max. Aperture	F1.4~ F4.5
Angle of View	H: 64.55° ~ 1.5°
Optical Zoom	48x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

DORI Distance

*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

Detect	Observe	Recognize	Identify
2731m(8960ft)	1092m(3583ft)	546m(1791ft)	273m(896ft)

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -90° ~ 45°	
Manual Control Speed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s	
Preset Speed	Pan:160° /s; Tilt: 60° /s	
Presets	300	
PTZ Mode	5 Pattern, 8 Tour, Auto Pan ,Auto Scan	
Speed Setup	Human-oriented focal Length/ speed adaptation	
Power up Action	Auto restore to previous PTZ and lens status after power failure	
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period	
Protocol	DH-SD, Pelco-P/D (Auto recognition)	
Intelligence		
Auto Tracking	Support	
IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map	

Video	
Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280× 720)/D1(704×576/704×480)/CIF(352×288/352×240)
	Main stream: 1080P/1.3M/720P(1~50/60fps)
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / WDR (120dB)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
Electronic Image Stabilization (EIS)	Support
Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas
Audio	
Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
Network	
Ethernet	RJ-45 (10Base-T/100Base-TX)
Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 users
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS
Smart Phone	IOS, Android
Certifications	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014

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Interface

interface	
Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
R\$485	1
Audio I/O	1/1
Alarm I/O	7/2
Electrical	
Power Supply	AC24V/8A(±25%)
Power Consumption	70W, 90W (IR on, Heater on)
Environmental	
Operating Conditions	-40°C \sim 70°C (-40°F \sim +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	Φ252(mm) x 345 (mm) x 474 (mm)
Net Weight	15kg(33.07lb)
Gross Weight	20.5kg(45.19lb)

Description

Power Adapter

Wall Mount

2MP 48x Starlight Laser Network

Positioning System, WDR, PAL 2MP 48x Starlight Laser Network

Positioning System, WDR, NTSC

2MP 48x Starlight Laser Network

Positioning System, WDR, PAL 2MP 48x Starlight Laser Network

Positioning System, WDR, NTSC

Accessories

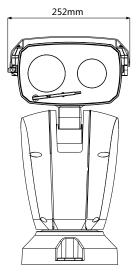
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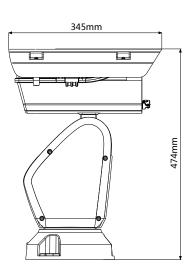


Optional:



Dimensions (mm)







Ordering Information

Part Number

DH-PTZ12248V-LR8-N

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AC24V/8A

PFB712W

Туре

2MP

Positioning

Accessories

System