

# 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
- · 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 ±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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spec	rification				Auto Tracking	Support
Technical Specification  Camera				IVS	Tripwire, Intrusion, Abandoned/Missing	
		1/1.9" CMOS			Advanced Intelligent Functions	Face Detection, Heat Map
		1920(H) x 1080(V), 2 Megapixels			Video	,,
		1024M/128M			Compression	H.265+/H.265/H.264+/H.264
Scanning System					Streaming Capability	3 Streams
		Progressive 1/1s~1/30,000s				1080P(1920×1080)/1.3M(1280×960)/720P(1280×
Electronic Shutter Speed		Color: 0.001Lux@F1.4; B/W: 0.0001Lux@F1.4;			Resolution	720)/D1(704×576/704×480)/CIF(352×288/352×240)
Minimum Illumination		OLux@F1.4 (IR on)			Frame Rate	Main stream: 1080P/1.3M/720P(1~50/60fps)
S/N Ratio		More than 55dB				Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		Distance up to 1200m(3937ft)				Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
IR On/Off Control		Auto/Manual			Bit Rate Control	CBR/VBR
IR LEDs		Laser module			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Wiper	:	Support			Day/Night	Auto(ICR) / Color / B/W
Lens					Backlight Compensation	BLC / HLC / WDR (120dB)
Focal Length 5.7m		5.7mm~275mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture		F1.4~ F4.5			Gain Control	Auto / Manual
Angle of View		H: 64.55° ~ 1.5°			Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom 4		48x			Motion Detection	Support
Focus Control		Auto/Manual			Region of Interest	Support
Close Focus Distance		100mm~ 1000mm			Electronic Image Stabilization (EIS)	Support
DORI Distance					Defog	Support
*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				Digital Zoom	16x	
		sult according to EN 62676-4 which defines the nize and Identify respectively.			Flip	180°
Detect	Observe	Recognize	Identify		Privacy Masking	Up to 24 areas
2731m(8960ft)	1092m(3583ft	t) 546m(1791ft)	273m(896ft)		Audio	Ф 10 = 1 11 11 11 11 11 11 11 11 11 11 11 11
PTZ						G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -	90° ~ 45°		Compression	G./11a/G./11Wu/AAC/G./22/G./20/WIPEG2-L2
Manual Control Spee	ed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~60° /s			Network	
Preset Speed		Pan:160° /s; Tilt: 60° /s			Ethernet	RJ-45 (10Base-T/100Base-TX)
Presets		300			Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
PTZ Mode !		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Speed Setup		Human-oriented focal Length/ speed adaptation			Interoperability	ONVIF Profile S&G, API
Power up Action		Auto restore to previous PTZ and lens status after power failure			Streaming Method	Unicast / Multicast
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Max. User Access	20 users
Protocol		DH-SD, Pelco-P/D (Auto recognition)			Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Intelligence					Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly			Management Software	Smart PSS, DSS, DMSS
					Smart Phone	IOS, Android

#### Certifications

Certifications	N55032/EN55024/EN50130-4 Part15 subpartB,ANSI C63.4- 2014
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## Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	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	Ф252(mm) x 345 (mm) x 474 (mm)
Net Weight	15kg(33.07lb)
Gross Weight	20.5kg(45.19lb)

#### **Ordering Information** Part Number Description Type 2MP 48x Starlight Laser Network DH-PTZ12248V-LR8-N Positioning System, WDR, PAL 2MP 48x Starlight Laser Network DH-PTZ12248VN-LR8-N 2MP Positioning System, WDR, NTSC Positioning 2MP 48x Starlight Laser Network System PTZ12248V-LR8-N Positioning System, WDR, PAL 2MP 48x Starlight Laser Network PTZ12248VN-LR8-N Positioning System, WDR, NTSC AC24V/8A Power Adapter Accessories PFB712W Wall Mount

# Accessories

#### Included:



AC24V/8A Power Adapter

## Optional:



PFB712W Wall Mount

# Dimensions (mm)





