Dahua
TECHNOLOGY

DH-PTZ12240-LR8-N
2MP 40x Network Laser IR Positioning System

· 1/2.8" 2Megapixel CMOS
· Powerful 40x optical zoom
· Support Triple-stream encoding
· Max. 25/30fps@1080P, 25/30/50/60fps@720P
· Auto-tracking and IVS
· IR Distance up to 800m
· IP66

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, the camera is the perfect solution for 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

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.

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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.

ONVIF **PSIA**

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/64M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.05Lux@F1.6; 0Lux@F1.6 (IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 800m(2625ft)
IR On/Off Control	Auto/Manual
IR LEDs	Laser module

Lens

Focal Length	7.9mm ~ 316mm
Max. Aperture	F1.6 ~ F6.1
Angle of View	H: 41.5° ~ 1.1°
Optical Zoom	40x
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
3571m(11716ft)	1428m(4685t)	714m(2343ft)	357m(1171ft)

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.264 / MJPEG
Streaming Capability	3 Streams
Resolution	1080P(1920×1080)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240)
Frame Rate	Main stream: 1080P (1 ~ 25/30fps), 720P(1~50/60fps)
	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR
White Balance	Auto,ATW,Indoor,Outdoor,Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detetion	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/G.726/AAC

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	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

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 ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Φ252(mm) x 360 (mm) x 464 (mm)
Net Weight	12.87kg(28.37lb)
Gross Weight	19kg(41.89lb)

Ordering Information

Type	Part Number	Description
2MP Positioning System	DH-PTZ12240-LR8-N	2MP 40x Network Laser IR Positioning System, PAL
	DH-PTZ12240N-LR8-N	2MP 40x Network Laser IR Positioning System, NTSC
	PTZ12240-LR8-N	2MP 40x Network Laser IR Positioning System, PAL
	PTZ12240N-LR8-N	2MP 40x Network Laser IR Positioning System, NTSC
Accessories	AC24V/8A	Power Adapter
	PFB712W-CA010	Wall Mount

Accessories

Included :

AC24V/8A
Power Adapter

Optional :

PFB712W-CA010
Wall Mount

Dimensions (mm)

252mm

360mm

464mm