

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



System Overview

All-environment series can be used for CCTV applications range from simple monitoring applications to fully controllable digital video monitoring systems. The excellent pan and tilt functionality makes the guard tour capability a reliable surveillance aid to operator that need to monitor a vast area. The series adopts top-notch DSP and advanced image sensor, which can offer a high-performance and safe imaging solution. It offers rich appearance, IP68 rated for water/dust ingress and professional certifications, which enable this series can meet most of special requirements of video surveillance applications such as high ground surveillance, explosive and corrosive environment surveillance for chemical industry, refineries and oil & gas industry, etc.

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.

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(4685ft) | 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 |

Video

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|--------------------------------------|---|
| 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

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|-------------|--------------------------|
| 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 UL: UL60950-1+CAN/CSA C22.2,No.60950-1 |
|----------------|--|

Interface

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|-----------------|-----|
| Video Interface | 1 |
| Audio Interface | 1/1 |
| RS485 | 1 |
| Alarm I/O | 7/2 |

Electrical

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|-------------------|-----------------------------|
| 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

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|--------------|--------------------------------|
| 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 Supply |
| | PFB712W-CA010 | Wall mount |

Accessories

Included:



AC24V/8A
Power Supply

Optional:



PFB712W-CA010
Wall mount

Dimensions (mm)

