

# DH-PTZ12240-IRB-N

2MP 40x Network IR Positioning System



- 1/2.8" 2Megapixel Exmor CMOS
- Powerful 40x optical zoom
- Support Triple-stream encoding
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- Auto-tracking and IVS(Optional)
- IR Distance up to 300m
- IP66



## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, this series provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. The series combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions.

## Functions

### Auto-tracking

The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

### Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

### Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of 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" Exmor CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/64M
Scanning System	Progressive
Minimum Illumination	Color: 0.05Lux@F1.6; 0Lux@F1.6 (IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 300m(984ft)
IR On/Off Control	Auto/Manual
IR LEDs	4

**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

**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 (optional)	Tripwire, Intrusion, Abandoned/Missing, Face Detection

**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
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**Network**

Ethernet	RJ-45 (10/100Base-T)
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, 128GB
Web Viewer	IE10/Google/Firefox/Safari...
Management Software	Smart PSS, DSS
Smart Phone	iPhone, iPad, Android, Windows Phone

**Certifications**

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2.No.60950-1
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**Interface**

Video Interface	1
Audio Interface	1/1
RS485	1
Alarm	7/2

**Electrical**

Power Supply	AC24V/5A(±25%)
Power Consumption	70W, 100W (IR 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	Φ202.7(mm)×390.8(mm)×472.2(mm)
Net Weight	10.5kg(23.15lb)
Gross Weight	16.5kg(36.38lb)

Ordering Information

Type	Part Number	Description
2MP Positioning System	DH-PTZ12240-IRB-N	2MP 40x Network IR Positioning System, PAL
	DH-PTZ12240N-IRB-N	2MP 40x Network IR Positioning System, NTSC
	PTZ12240-IRB-N	2MP 40x Network IR Positioning System, PAL
	PTZ12240N-IRB-N	2MP 40x Network IR Positioning System, NTSC
Accessories	AC24V/5A	Power Supply

Accessories

Included :



AC24V/5A  
Power Supply

Dimensions (mm)

