

Z-PE8UX9SW40-H/S/AI

40X 8MP Auto Tracker AI IP PTZ Camera



System Overview

Our latest E series IP Pan-Tilt-Zoom 8MP/4K Auto-Tracking camera is our smartest and most powerful PTZ camera to date. Featuring a massive 40x (5.6-223mm) zoom, you can reliably identify people and objects at 1443 ft away from the camera, and detect events in the background of your scene from over 14,000ft away at max zoom! With PFA technology, the auto-tracking feature of our latest PTZ is better than ever, ensuring a great picture while the camera is zooming in on a detected object while zooming and focusing faster than ever before.

Features

Starlight+ Technology

For challenging low-light applications, 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.

Face Recognition

Once facial features are extracted from captured faces, they are stored in a database where they can be easily searched and compared against other images. Once a successful match is found, the system outputs the result. The Face Recognition camera supports a built-in database that stores up to 10,000 facial images, helping the camera achieve real-time face capture and comparison.

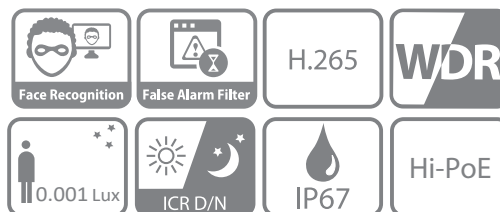
Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. There are four kinds of metadata supported by this PTZ AI camera: human face, human body, motor vehicle and non-motor vehicle metadata. Facial information includes gender, age, glasses, masks, beards, etc. Human body information includes hat, top, top color, bottom, bottom color, bag, etc. Motor vehicle information includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspection sticker, etc. Non-motor vehicle information includes type, color, top type, top color, people number, etc.

- 1/1.8" 8Megapixel STARVIS™ CMOS
- Powerful 40x optical zoom
- Starlight+ technology
- IR distance up to 500m
- Supports face recognition
- Deep-learning-based auto tracking and perimeter protection
- Supports metadata
- Supports Hi-PoE
- Smart wiper
- IP67



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

This camera operates 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 IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

This camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

This camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification

Camera	
Image Sensor	1/1.8" STARVIS™ CMOS
Pixels	8 Megapixels
Max. Resolution	3840(H) x 2160(V)
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.002Lux@F1.4; B/W: 0.0002Lux@F1.4; 0Lux@F1.4 (IR on)
IR Distance	Distance up to 500m (1640ft)
IR On/Off Control	Auto/Manual
IR LEDs	10
Smart Wiper	Support

Lens	
Focal Length	5.6mm~223mm
Max. Aperture	F1.4~ F4.8
Angle of View	H: 63.9° ~ 2.0°; V: 37.2° ~ 1.2° ; D: 71.2° ~ 2.4°
Optical Zoom	40x
Focus Control	Auto/Manual
Iris Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

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Detect	Observe	Recognize	Identify
4400m(14435ft)	1740m(5708ft)	880m(2887ft)	440m(1443ft)

PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°,auto flip 180°
Manual Control Speed	Pan: 0.1° ~240° /s; Tilt: 0.1° ~100° /s
Preset Speed	Pan: 240° /s; Tilt: 120° /s
Presets	300
PTZ Mode	5 Pattern, 8 Tour(up to 32 preset per tour), Auto Pan, 5 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)

Artificial Intelligence	
Auto Tracking	Support
Face Recognition	Support
Perimeter Protection	Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle) Filtering out false alarms caused by animals, rustling leaves, bright lights, etc

Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction
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General Intelligence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
General Intelligence	Object Abandoned/Missing

Video	
Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Streaming Capability	3 Streams
Resolution	4K(3840x2160)/1080P(1920×1080)/1.3M(1280x960)/720P(1280×720)/D1(704×576/ 704×480)/CIF(352×288/352×240)
Frame Rate	Main stream: 4K(1~25/30fps), 1080P/1.3M/720P (1~25/30fps)
	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: 512K ~ 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
Image Stabilization	Electronic
Optical Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas

Audio	
Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2

Network	
Ethernet	RJ-45 (10Base-T/100Base-TX)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF Profile S&G&T, API
Streaming Method	Unicast / Multicast
User/Host	20 users
Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Browser	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android

Dimensions (mm)

