# HIKVISION

iDS-2SR8141IXS-AB(40X) (T2)
4 MP 40 × Radar PTZ Camera
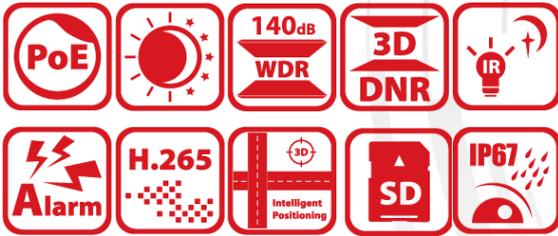
Hikvision Radar PTZ Camera combines security radar with network speed dome. The radar adopts phased array technology for intrusion detection, which is able to detect the distance, speed and location of targets.

The device supports multi-target positioning, pattern tracking, and linked camera tracking in multiple directions. It can filter out false alarms in various event detections via intelligent algorithm analysis.

The radar PTZ camera can effectively work day and night in all weather conditions, including rain and fog. This product is suitable for many types of video security sites, such as borderline, prison, power station, railway, museum, airport, and other locations that need perimeter protection.

- Up to 2560 × 1440 @ 60 fps resolution
- Min. Illumination: Color: 0.002 Lux @ (F1.2, AGC ON); B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR
- 40 × optical zoom, 16 × digital zoom
- Up to 200 m IR distance, supporting Smart IR
- Up to 100 m white light visual alarm, flashing and solid modes are available
- 140 dB WDR
- Supports optical defog, 3D DNR, HLC, EIS
- Supports vandal-proof alarm
- Supports detecting radar events, including intrusion detection and line crossing detection
- Supports video double check. The PTZ camera double checks the radar detected targets to decrease false alarms.

▪ Specification

Camera Module	
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON); B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1/1 s to 1/30,000 s
Slow Shutter	yes
Focus	semi-auto, manual, auto
Day & Night	ICR
BLC	yes
WDR	140 dB WDR
HLC	yes
3D DNR	yes
EIS	yes
Regional Exposure	yes
Regional Focus	yes
Image Settings	saturation, brightness, contrast, sharpness
Image Parameters Switch	yes
White Balance	auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB
Digital Zoom	16 ×
Optical Zoom	40 ×
Privacy Mask	up to 24 masks, mosaic mask, mask color configurable, rectangle region
SNR	≥52 dB
General Function	mirror, password protection, video tampering alarm, watermark, IP address filter
Optical Defog	yes
Gain Control	auto, manual
Lens	
Focal Length	6.0 mm to 240 mm, 40 × Optical
Zoom Speed	approx. 4.8 s (optical, wide-tele)
FOV	Horizontal field of view: 59.0° to 1.8° (wide-tele) Vertical field of view: 34.2° to 1.0° (wide-tele) Diagonal field of view: 67° to 2.0° (wide-tele)
Min. Working Distance	100 mm to 1500 mm (wide-tele)
Aperture	F1.2
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-20° to 90° (auto flip)
Pan Speed	pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s
Tilt Speed	tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s
Proportional Zoom	yes
Presets	300
Patrol Scan	8 patrols
Pattern Scan	4 pattern scans
Power-off Memory	yes
Park Action	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	yes
PTZ Status Display	yes
Preset Freezing	yes
Scheduled Task	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Exception Detection	network disconnected, IP address conflict, HDD full, illegal login, HDD error
Video	
Max. Resolution	2560 × 1440
Main Stream	50Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 50fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)

Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265, H.264, MJPEG
Video Bit Rate	32 Kbps to 16384 Kbps
H.264 Type	baseline profile, main profile, high profile
H.265 Type	main profile
H.264+	yes
H.265+	yes
SVC	yes
ROI	dynamic target tracking, main stream, sub-stream and third stream respectively support eight fixed areas

Audio

Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM
Audio Bit rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)

Smart Features

Basic Event	motion detection, video tampering alarm, alarm input, alarm output, exception
Smart Event	intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
Smart Tracking	manual tracking, panorama tracking, event tracking, support patrol tracking among multiple detection scenes
Smart Record	ANR, Dual-VCA
Alarm Linkage	preset, patrol scan, pattern scan, memory card video recording, alarm output, sending email, notify surveillance center, upload to FTP
Smart Encoding	H.265+, H.264+, low bit rate, ROI
Warning and Alert	white light warning
Radar Event	Radar events including line crossing detection and intrusion detection. Detected target is tracked and captured by PTZ camera channel. Video double checks radar detected targets to improve detection accuracy.

Network

Network Storage	NAS (NFS, SMB/ CIFS)
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
API	Open-ended, support ONVIF, ISAPI, and CGI, support HIKVISION SDK and Third-Party Management Platform
Simultaneous Live View	20
User/Host	32
Security Measures	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Client	iVMS-4200
Web Browser	Firefox30+, Safari11+, Chrome41+, IE 11.0.9600.17843 and above version

Interface

Communication Interface	RJ45, Self-adaptive 10M/100M Ethernet port
On-board Storage	Built-in microSD slot, support microSD/microSDHC/microSDXC cards, up to 256 GB
Alarm Input	7 alarm inputs
Alarm Output	2 alarm outputs
Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%
Audio Output	1 audio output, line level, impedance: 600 Ω
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive

Supplement Light

IR Distance	200 m
Visual Alarm	100 m
Smart IR	yes

General

Power	24 VAC ± 25% (max. 60W, including max. 5 W for heater, max. 12 W for IR, max. 6 W for white light, and max. 8 W for radar)
Operating Conditions	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%
Dimensions	Φ338 mm (13.31") × 436 mm (17.17")
Weight	Approx. 12 kg (26.46 lb)

Approval

Protection	IP67 Standard, 6000V Lightning Protection, Surge Protection and Voltage Transient Protection

Radar	
Working Frequency	24.05 to 24.25 GHz
Detection Distance	human: 100 m; vehicle: 120 m
Horizontal Detection Angle	± 45°
Vertical Detection Angle	± 14°
Max. Detectable Targets	32
Distance Measurement Accuracy	± 1 m
Speed Measurement Accuracy	± 0.07 m/s
Angle Measurement Accuracy	± 1°

▪ Available Model

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▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Indentify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	3310.3 m (10860.6 ft)	1313.6 m (4309.7 ft)	662.1 m (2172.2 ft)	331.0 m (1086.0 ft)

▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪Dimension
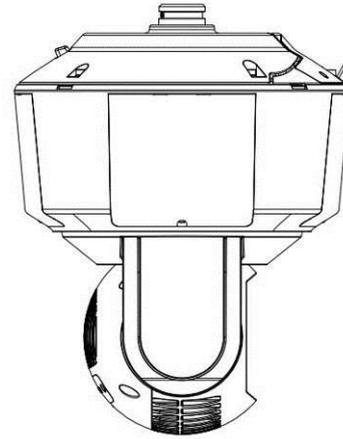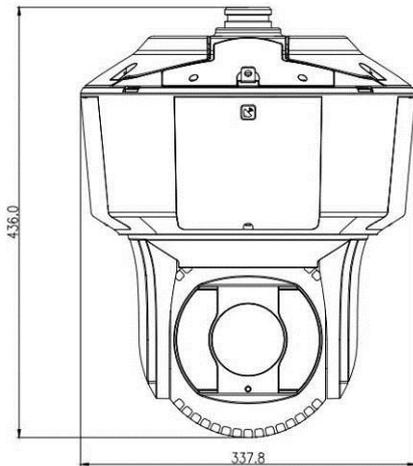
Unit:mm

▪ Accessory

▪ Optional

DS-1603ZJ-P	DS-1603ZJ-Pole-P	DS-1668ZJ(20)-P	DS-1668ZJ-P	HKKD-13002 (EU) A24-5A-950 (USA) PSE-A1525/100200 (JP) Power adapter

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