

DS-2SR8C440I5XG3-LW/SP/R23/14(F0) 4MP 40x 300m All-in-One Radar PTZ



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 industrial parks, enterprise parks, mines, power stations, oil refineries, airports and important centers that need perimeter protection. The key features are as follows:

- Adopt integrated camera + radar integrated design, realize automatic calibration, easy installation, easy commissioning, easy deployment
- Support radar-video fusion technology, and supports AI dual large models for video and radar
- Support the detection of the target's distance, azimuth, speed information, and support target positioning, trajectory tracking
- Support radar and video to detect the target, capture the target's face, human body or vehicle pictures during the following process and output related information
- Support smart event, panoramic camera to arm the configured area, when the target is detected, the linkage of the detail camera to follow the target and alarm
- Support display panoramic pictures, detailed pictures, radar sector maps, event alarm maps, face, human body and vehicle snapshots and target structured information through IE
- Support radar and video for perimeter intrusion detection of multiple targets at the same time
- Suitable for perimeter security scenarios such as industrial parks, enterprise parks, mines, power stations, oil refineries, airports and important centers
- Support detection 24/7 in All-weather such as day, night, rain, fog, etc.

▪ Specification

Radar Detection	
Working Frequency	24 to 24.25 GHz
Detection Distance	Human: 300 m,Vehicle: 300 m
Speed Range	0.3m/s ~ 34m/s
Horizontal Detection Angle	120°
Vertical Detection Angle	20°
Max. Detectable Targets	200
Distance Measurement Accuracy	0.6m
Speed Measurement Accuracy	0.1m/s
Angle Measurement Accuracy	0.5°
Radar Event	Crossing detection
Data Fresh Rate	6.4 Hz
Camera	
Image Sensor	[Panorama 1] 1/1.8" progressive scan CMOS [Panorama 2] 1/1.8" progressive scan CMOS [Detail] 1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	[Panorama] Color: 0.0005 Lux @ (F1.6, AGC ON) [Detail] Color: 0.0003 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Speed	NTSC(60HZ) : 1/30s to 1/30000 s PAL(50HZ) : 1/25s to 1/30000 s
Day & Night	IR cut filter
Zoom	40 × optical, 16 × digital
Slow Shutter	Yes
Lens	
Focal Length	[PTZ channel] 6 to 240 mm
FOV	[Panorama] 104° [Detail] 60.2° to 2.3°
Focus	Auto, semi-auto, manual
Aperture	[Panorama] F1.0 [Detail] F1.2
Zoom Speed	[Detail] Approx. 5.6 s
Illuminator	
Supplement Light Type	Laser
Supplement Light Range	[Panorama] 50 m [Detail] 500 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	[Panorama] 0° to 20° [Detail] 0° to 360°
Movement Range (Tilt)	[Detail] -20° to 90°
Pan Speed	[Panorama] 4°/s [Detail] Pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s
Tilt Speed	[Detail] Configurable from 0.4° to 125°/s, preset speed: 200°/s
Proportional Pan	[Panorama] No [Detail] Yes
Presets	300
Patrol Scan	8 patrols
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan

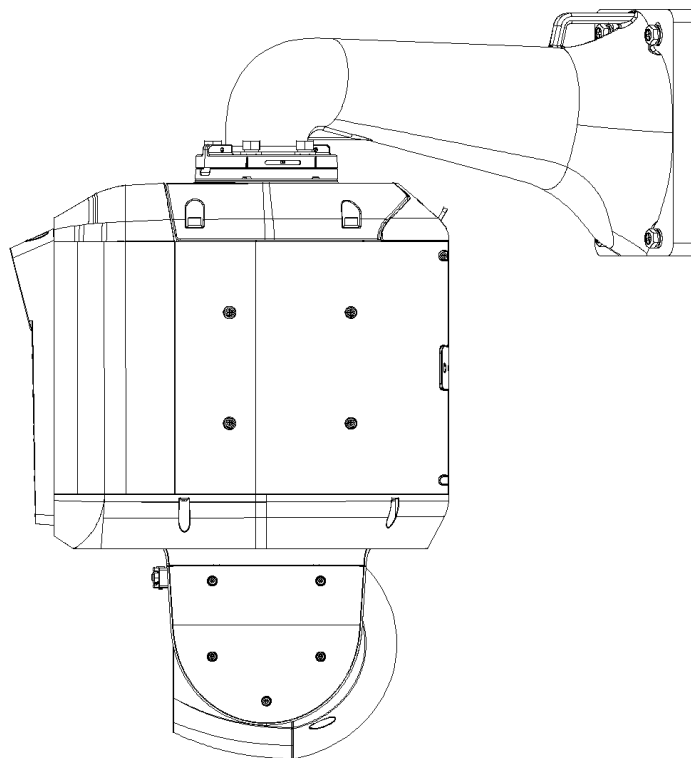
3D Positioning	Yes
PTZ Status Display	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Power-off Memory	Yes
Video	
Main Stream	Panorama 1:50 Hz: 25 fps(2688×1520, 2560×1440, 1920×1080, 1280×960, 1280×720)60 Hz: 30 fps(2688×1520, 2560×1440, 1920×1080, 1280×960, 1280×720)Detail:50 Hz: 25 fps(2688×1520, 2560×1440, 1920×1080, 1280×960, 1280×720)60 Hz: 30 fps(2688×1520, 2560×1440, 1920×1080, 1280×960, 1280×720)
Sub-Stream	Panorama 1:50 Hz: 25 fps(704×576, 640×480, 352×288)60 Hz: 30 fps(704×480, 640×480, 352×240)Detail:50 Hz: 25 fps(704×576, 640×480, 352×288)60 Hz: 30 fps(704×480, 640×480, 352×240)
Third Stream	Panorama 1: 50 Hz: 25 fps(1920×1080, 1280×960, 1280×720, 704×576, 640×480, 352×288) 60 Hz: 30 fps(1920×1080, 1280×960, 1280×720, 704×480, 640×480, 352×240) Detail: 50 Hz: 25 fps(1920×1080, 1280×960, 1280×720, 704×576, 640×480, 352×288) 60 Hz: 30 fps(1920×1080, 1280×960, 1280×720, 704×480, 640×480, 352×240)
Video Compression	Main stream: H.264+/H.265/H.265+/H.264, Sub-stream: MJPEG/H.265/H.264, Third stream: MJPEG/H.265/H.264
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	[Detail] Yes [Panorama]yes
Audio	
Audio Compression	G.711,G.726,MP2L2,PCM,AAC-LC,MP3,AAC
Audio Bit Rate	16 to 64Kbps (AAC-LC),32 to 192 Kbps (MP2L2),8 to 320 Kbps (MP3)
Audio Sampling Rate	MP2L2 : 16 kHz , 32 kHz , 48 kHz , AAC : 16 kHz , 32 kHz , 48 kHz , PCM : 8 kHz , 16 kHz , 32 kHz , 48 kHz MP3 : 8 kHz , 16 kHz , 32 kHz , 48 kHz"
Environment Noise Filtering	Yes
Network	
Protocols	RTCP,SNMP,UPnP,WebSockets,RTP,SMTP,IPv4,TCP/IP,SFTP,QoS,RTSP,IGMP,DHCP,DNS,ICMP,HTTPS,IPv6,NTP,WebSocket,DDNS,SSL/TLS,UDP,HTTP,PPPoE,FTP,802.1X
Simultaneous Live View	Up to 20 channels
API	ISAPI,SDK,ISUP,ONVIF,OTAP
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User
Security	Password protection,complicated password,HTTPS encryption,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),watermark,IP address filter,basic and digest authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS,control timeout settings,security audit log,TLS 1.3,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2)
Network Storage	NAS (NFS, SMB/CIFS)
Client	iVMS-4200,Hik-Connect,HikCentral Pro
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+

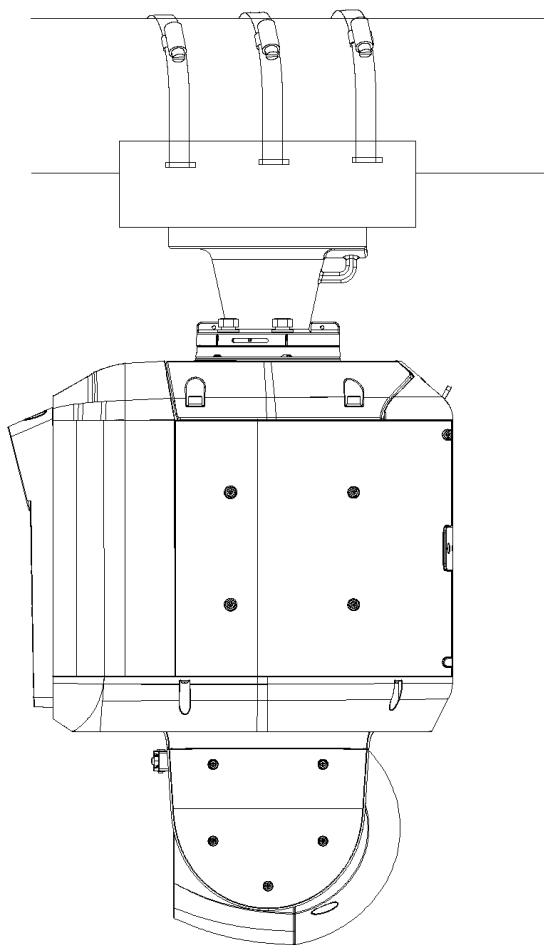
Image	
Day/Night Switch	Day,night,auto,schedule
Supplement Detection	
Satellite Positioning	Yes
Gyroscope	Yes
Compass	Yes
Interface	
Ethernet Interface	RJ45 1000 M Ethernet Interface, self-adaptive
Audio	1 audio input, 2.0 to 2.4 Vp-p, input impedance: 1 k Ω $\pm$ 10%; 1 audio output, line level, impedance: 600 Ω
Alarm	7 alarm inputs, 2 alarm outputs
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
On-board Storage	Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB
Reset	Yes
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), vandal-proof alarm, audio exception detection, alarm input
Smart Event	Intrusion detection, line crossing detection, region entrance detection, region exiting detection
General	
Power	36 VDC, 4.17 A, max. 80 W [Panorama] heating 6 W, supplement light 6 W [Detail] heating 6 W, supplement light 12 W
Dimension	Ø336 mm $\times$ 444 mm (13.23" $\times$ 17.48")
Weight	Approx. 12 kg (26.45 lb.)
Operating Condition	-40 $^{\circ}$ C to 70 $^{\circ}$ C (-40 $^{\circ}$ F to 158 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Wiper	Yes
Demist	Yes
Approval	
Protection	IP67

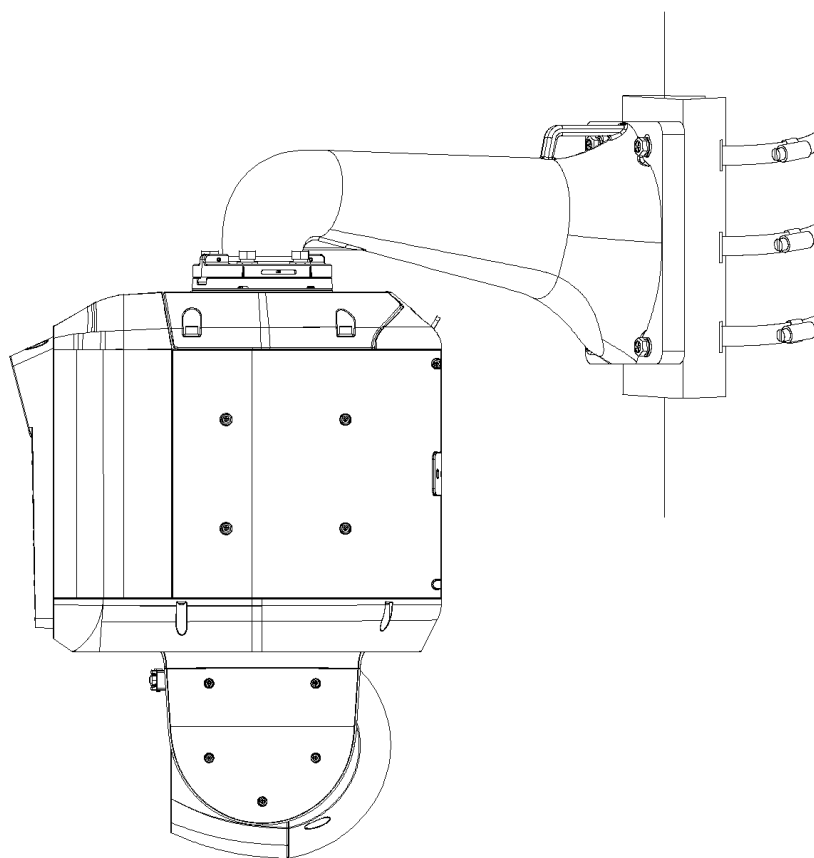
▪ Available Model

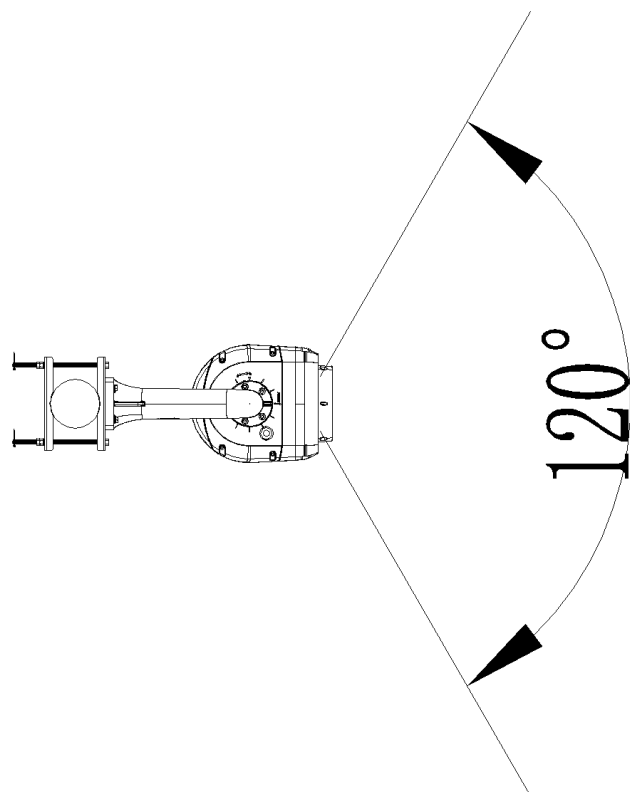
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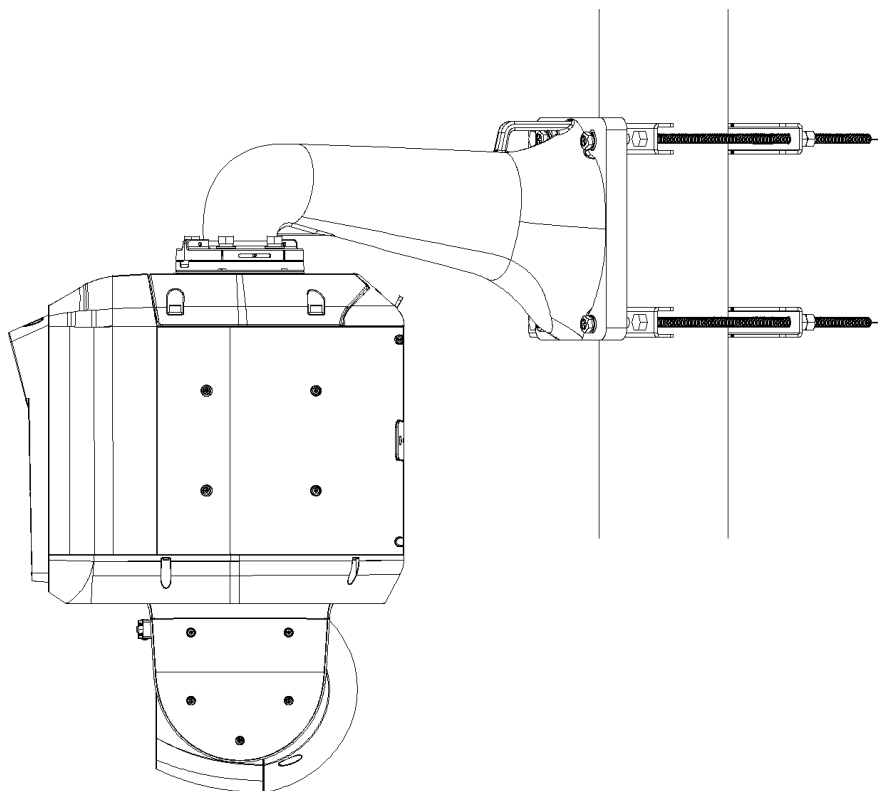
▪ Dimension

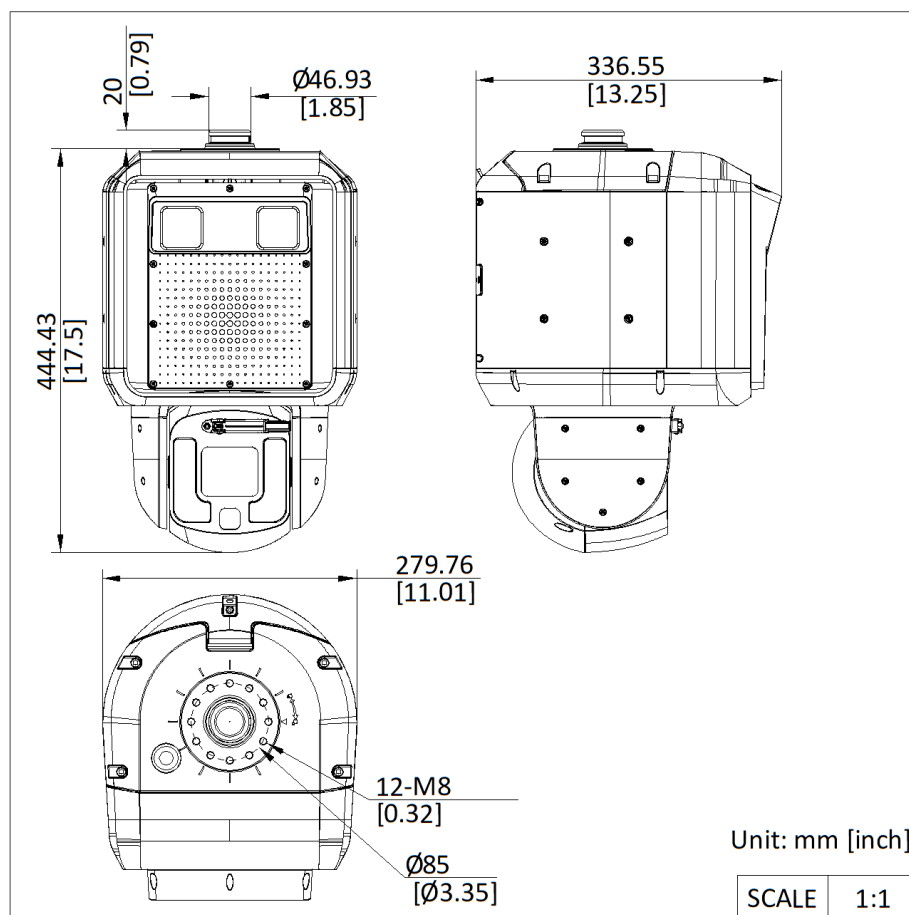












▪ Accessory

▪ Optional

DS-4604ZJ-PA	DS-1684ZJ-P	DS-4614ZJ-PA	DS-4641ZJ-PC	DS-4651ZJ-PC

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