



SICH-4023PRT

4 MP 32 × IR Network Speed Dome, adopts 1/1.8" progressive scan CMOS chip. With the 32 × optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc. Up to 200 m IR distance, 3D-DNR, IP66.

1/1.8" Progressive Scan CMOS

High quality imaging with 4 MP resolution

Excellent low-light performance

Audio visual alarm: The white flashing light and audible warning can be triggered by certain events

32 x optical zoom and 16 x digital zoom provide close up views over expansive areas

Expansive night view with up to 200 m IR distance

Focuses on human and vehicle targets classification based on deep learning

Face capture: Up to 5 faces captured at the same time

Camera Module

Max. Resolution	2560 × 1440
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Colour: 0.005 Lux@(F1.5, AGC ON), B/W: 0.001 Lux@(F1.5, AGC ON), 0 Lux with IR
Shutter Speed	1/1 ÷ 1/30,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Zoom	32x optical, 16x digital

Lens

Focal Length	5.9 ÷ 188.8 mm
Zoom Speed	~ 4.8 s
Field of View (FOV)	Horizontal FOV: 50.8° ÷ 2.6° (Wide-Tele); Vertical FOV: 29.4° ÷ 1.5° (Wide-Tele); Diagonal FOV: 57.4° ÷ 3° (Wide-Tele)
Aperture	Max. F1.5
Focus	Auto, semi-auto, manual

Illuminator

Supplement Light Type	IR
Supplement Light Range	IR Distance: up to 200 m

PTZ

Movement Range (Pan)	360°
Movement Range (Tilt)	-15° ÷ 90° (auto flip)
Pan Speed	Configurable, 0.1°/s ÷ 160°/s; preset speed: 240°/s
Tilt Speed	Configurable, 0.1°/s ÷ 120°/s; Preset Speed: 200°/s
Proportional Pan	Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Power-off Memory	Yes
Park Action	Preset/Pattern 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

Video

Main Stream	50 Hz: 25fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 24fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 24fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 ×

Video Compression	480, 352 × 288) 60 Hz: 24fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) Main Stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG Third Stream: H.265/H.264/MJPEG Baseline Profile/Main Profile/High Profile
H.264 Type	Main Profile
H.265 Type	32 ÷ 16384 kbps
Video Bit Rate	H.264 and H.265 encoding
Scalable Video Coding (SVC)	8 fixed regions for each stream
ROI	
Event	
Basic Event	Motion Detection, Video Tampering Alarm, Exception, Alarm input and output
Smart Event	Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection, Audio Exception Detection
Smart Tracking	Manual tracking, auto-tracking
Alarm Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, and PTZ actions (such as preset, patrol scan, pattern scan)
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, AAC, PCM
Audio Bit Rate	64 kbps (G.711)/16 kbps (G.722.1)/16 kbps (G.726)/32-192 kbps (MP2L2)/16-64 kbps (AAC)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	Yes
Network	
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
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, Websocket, Websockets
API	Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users; 3 levels: <i>Administrator</i> , <i>Operator</i> and <i>User</i>
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, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address)
Client	CTR-MAZi, CMS-MAZi
Web Browser	IE11, Chrome 57+, Firefox 52+, Safari 11+
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D-DNR
Wide Dynamic Range (WDR)	120 dB
Defog	Digital defog
Image Stabilization	EIS
Regional Exposure	Yes
Regional Focus	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable
SNR	> 52 dB
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Alarm	2 inputs, 1 output
Audio	1 input (line in), max. input amplitude: 2-2.4 Vpp, input impedance: 1 kΩ ± 10%; 1 output (line out), line level, output impedance: 600 Ω
Reset	Yes
Built-in Speaker	1 built-in speaker with effective distance reaching max. 30 meters
Deep Learning Function	
Face Capture	Detects up to 5 faces simultaneously. Supports detecting, capturing, grading, selecting of face in motion, and output the best face picture of the face

Line crossing, intrusion, region entrance, region exiting; Support alarm triggering by specified target types (human and vehicle)

General

Power	24 Vac, max. 42 W (including max. 18 W for IR and max. 10 W for heater); Hi-PoE
Operating Condition	-30 °C ÷ +65 °C (-22 °F ÷ 149 °F); Humidity 90% or less (non-condensing)
Demist	Yes
Material	ADC12
Dimensions	Φ 220 × 363.3 mm (Φ 8.66" × 13.91")
Weight	~ 5 kg (11.03 lb)

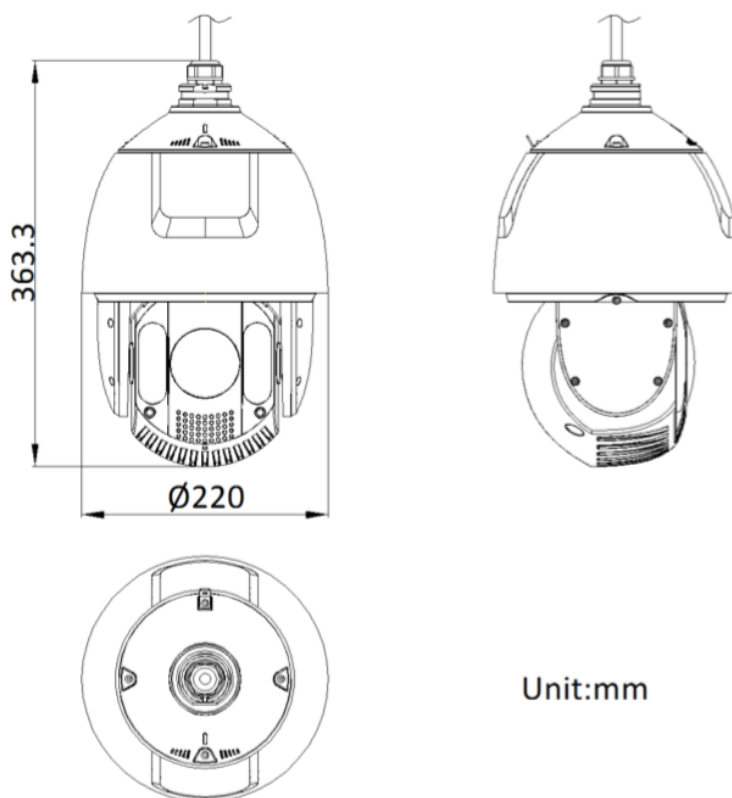
Approval

Protection	IP66 (IEC 60529-2013), IK10 (excluding glass window), TVS 6000V lightning protection, surge protection and voltage transient protection
EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2019); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 62368-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 62368-1:2014+A11:2017); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (SANS IEC60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

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	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2046.9 m (6715.5 ft)	812.3 m (2665.0 ft)	409.4 m (1343.2 ft)	204.7 m (671.6 ft)



Unit:mm