



SICH-80142PRTK

8 MP 42 × IR Network Speed Dome, adopts 1/1.8" progressive scan CMOS chip. With the 42 × 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, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc. Up to 500 m IR distance, 3D-DNR, PoE, IP67 and IK10.

1/1.8" Progressive Scan CMOS

High quality imaging with 8 MP resolution

Excellent low-light performance

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

Expansive night view with up to 500 m IR distance

Water and dust resistant (IP67) and vandal proof (IK10)

Supports face capture to detect, capture, grade, and select faces in motion

Supports road traffic to detect vehicles

Smart Pan-Tilt Correction

Camera Module

Max. Resolution	3840 × 2160
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Colour: 0.005 Lux@(F1.2, AGC ON), B/W: 0.005 Lux@(F1.2, AGC ON)
Shutter Speed	1/1 ÷ 1/30,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Zoom	42x optical, 16x digital

Lens

Focal Length	6.0 ÷ 252 mm
Zoom Speed	~ 4.8 s
Field of View (FOV)	<i>Horizontal FOV: 56.6° ÷ 1.7° (Wide-Tele); Vertical FOV: 33.7° ÷ 0.9° (Wide-Tele); Diagonal FOV: 63.4° ÷ 1.9° (Wide-Tele)</i>
Aperture	Max. F1.2
Focus	Auto, semi-auto, manual, rapid focus

Illuminator

Supplement Light Type	IR
Supplement Light Range	500 m
Smart Supplement Light	Yes

PTZ

Movement Range (Pan)	360°
Movement Range (Tilt)	-20° ÷ 90° (auto flip)
Pan Speed	Configurable, 0.1°/s ÷ 210°/s; preset speed: 280°/s
Tilt Speed	Configurable, 0.1°/s ÷ 150°/s; Preset Speed: 250°/s
Proportional Pan	Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
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

Video

Main Stream	50 Hz: 25fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 30fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30fps (704 × 480, 640 × 480, 352 × 240)

Third Stream	50 Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30fps (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
Video Compression	Main Profile
H.264 Type	32 ÷ 16384 kbps
H.265 Type	H.264 and H.265 encoding
Video Bit Rate	8 fixed regions for each stream
Scalable Video Coding (SVC)	
Region of Interest (ROI)	
Event	
Basic Event	Motion Detection, Video Tampering Alarm, Exception, Alarm input and output
Smart Event	Line crossing detection, region entrance detection, unattended baggage detection, object removal detection, intrusion detection, region exiting detection, vandal-proof alarm, audio exception detection
Smart Tracking	Manual tracking, auto-tracking
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording and PTZ actions (such as preset, patrol scan, pattern scan)
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)/32-192 kbps (MP2L2)
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, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
API	Open Network Video Interface (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 1.3, 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, Scheduled-switch
Image Enhancement	BLC, HLC, 3D-DNR
Wide Dynamic Range (WDR)	140 dB
Defog	Optical defog
Image Stabilization	Yes. Built-in gyroscope to improve EIS performance
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	Up to 24 masks, polygon region, mosaic mask, mask colour configurable
SNR	> 52 dB
Supplement Detection	
Satellite Positioning	NO
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	7 inputs, 2 output
Audio	1 input (line in), max. input amplitude: 0-3.3 Vpp, input impedance: 4.75 kΩ ± 5%; 1 output (line out), line level, output impedance: 600 Ω
Video Output	1.0 V[p-p]/75 Ω, PAL, NTSC, BNC connector
RS-485	Pelco-P, Pelco-D, self-adaptive
Deep Learning Function	
Face Capture	Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face
Face Comparison	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting; Support alarm triggering by specified target types (human and vehicle)
Road Traffic and Vehicle Detection	
Road Traffic	Support vehicle detection (license plate number, vehicle model, and vehicle colour recognition)

General

General Function	Mirror, password protection, watermark, IP address filter
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Power	24 Vac, max. 60 W (including max. 18 W for IR and max. 6 W for heater); Hi-PoE (Max. 50 W, including max. 18 W for IR and max. 6 W for heater)
Operating Condition	-40 °C ÷ +70 °C (-40 °F ÷ 158 °F); Humidity ≤95%
Dimensions	Φ 267 × 405 mm (Φ 10.51" × 15.94")
Weight	~ 8.5 kg (18.74 lb)

Approval

Protection	Lightning Protection, Surge Protection and Voltage Transient Protection, ±6 kV Line to Gnd, ±3kV Line to Line, IK10 (IEC 62262:2002), IP67 (IEC 60529-2013) 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+A1:2019, EN 50130-4:2011+A1: 2014); RCM (AS/NZS CISPR 32: 2015); ICVoC (ICES-003: Issue7); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 62368-1); CB (IEC 62368-1:2014+A11); CE-LVD (EN 62368-1:2014+A11:2017), BIS (IS13252(Part1):2010/IEC 60950-1:2005); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

