



SICH-80112P-VHTA

7-inch 8 MP 12× IR Network Speed Dome, adopts 1/1.8" progressive scan CMOS chip. With the 12× 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 150 m IR distance, 3D-DNR, PoE, IP67 and IK10.

24/7 colorful imaging

High quality imaging with 8 MP resolution

12 x optical zoom and 64 x digital zoom provide close up views over expansive areas

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

Expansive night view with up to 150 m IR distance and 100 m white light

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	3840 × 2160
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Colour: 0.0005 Lux@(F1.2, AGC ON), B/W: 0.0001 Lux@(F1.2, AGC ON), 0 lux with light
Shutter Speed	1/1 ÷ 1/30,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Zoom	12x optical, 64x digital

Lens

Focal Length	6.7 ÷ 80.4 mm
Zoom Speed	~ 5.8 s
Field of View (FOV)	Horizontal FOV: 53° ÷ 8.1° (Wide-Tele); Vertical FOV: 31.3° ÷ 4.6° (Wide-Tele); Diagonal FOV: 59.6° ÷ 9.3° (Wide-Tele)
Aperture	Max. F1.2
Focus	Auto, semi-auto, manual

Illuminator

Supplement Light Type	Hybrid (IR and White Light)
Supplement Light Range	White light: up to 100 m; IR: up to 150 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, 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: 24fps (3840 × 2160, 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 × 480, 352 × 288) 60 Hz: 24fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)

H.264 Type	Main Stream: H.265+/H.265/H.264+/H.264
H.265 Type	Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	Third Stream: H.265/H.264/MJPEG
Scalable Video Coding (SVC)	Baseline Profile/Main Profile/High Profile
Region of Interest (ROI)	Main Profile
	32 ÷ 16384 kbps
	H.264 and H.265 encoding
	8 fixed regions for each stream

Event

Basic Event	Motion Detection, Video Tampering Alarm, Exception, Alarm input and output
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection
Smart Tracking	Manual tracking, auto-tracking
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-LC, 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-LC), 8-320 kbps (MP3)
Audio Sampling Rate	MP2L2: 16 kHz, 32 kHz, 48 kHz, AAC-LC: 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

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 (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 80+, Firefox 80+, Safari 13+, Edge 89+

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 colour 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 512 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
Built-in Speaker	1 built-in speaker with effective distance reaching max. 30 meters
Reset	Yes

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
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General

Power	24 Vac, max. 42 W (including max. 12 W for IR and max. 2 W for heater); Hi-PoE
Material	ADC12
Demist	Yes

Operating Condition

-30 °C ÷ +65 °C (-22 °F ÷ 149 °F); Humidity 90% or less (non-condensing)

Dimensions

Φ 220 × 357.3 mm (Φ 8.66" × 14.07")

Weight

~ 5.5 kg (12.13 lb)

Approval

Protection

IP67 (IEC 60529-2013), IK10 (IEC 62262:2002), TVS 6000 V lightning protection, surge protection and voltage transient protection

EMC

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 CISPR32: 2015), IC (ICES-003: Issue7), KC (KN 32: 2015, KN 35: 2015)

Safety

UL (UL 62368-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 62368-1:2014+A11:2017); BIS (IS 13252 (Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)

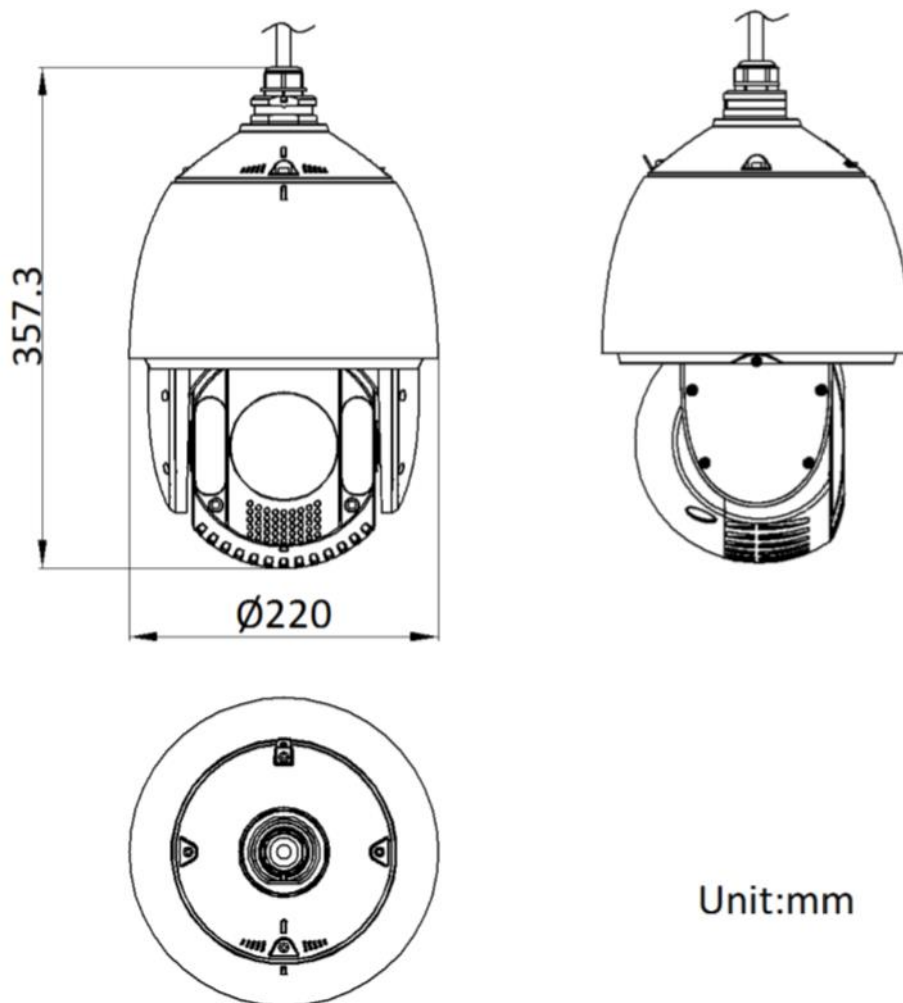
Environment

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)	1080.0 m (3543.3 ft)	428.6 m (1406.2 ft)	216.0 m (708.7 ft)	108.0 m (354.3 ft)



Unit:mm