

DS-2DY9240IX-A(T5) 2 MP 40 × IR Network Positioning System



- 1/1.8" progressive scan CMOS
- Up to 1920 × 1080 resolution
- Min. illumination: Color: 0.005 Lux @(F1.2, AGC ON), B/W: 0.001 Lux @(F1.2, AGC ON), 0 Lux with IR
- Rain-sensing auto wiper
- 40 × optical zoom, 16 × digital zoom
- 140 dB WDR, 3D DNR, HLC, BLC, Smart IR
- 24 VAC
- Support H.265+/H.265 video compression
- Support up to 400 m IR distance





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)	2979.3 m (9774.6 ft)	1182.3 m (3878.9 ft)	595.9 m (1955.1 ft)	297.9 m (977.4 ft)

Specification

Specification		
Camera		
Image Sensor	1/1.8" progressive scan CMOS	
Min. Illumination	B/W: 0.001 Lux @ (F1.2, AGC ON),color: 0.005 Lux @ (F1.2, AGC ON), 0 Lux with IR	
Shutter Speed	1/1s ~ 1/30,000 s	
Focus	semi-auto, manual, auto	
Day & Night	ICR	
BLC	yes	
WDR	140 dB WDR	
HLC	yes	
3D DNR	yes	
EIS	Yes. Built-in gyroscope to improve EIS performance.	
Regional Exposure	yes	
Regional Focus	yes	
White Balance	auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, Locked WB	
Digital Zoom	16 ×	
Optical Zoom	40 ×	
Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable	
General Function	Function mirror, password protection, watermark, IP address filter	
Lens		
Focal Length	6.0 mm to 240 mm, 40 × optical	
Zoom Speed	approx.5.6 s	
	Horizontal field of view: 59.0 to 1.8° (wide-tele)	
FOV	Vertical field of view: 33.7° to 1.1° (wide-tele),	
	Diagonal field of view: 63.4° to 2.1° (wide-tele)	
Aperture	F1.2	
Illuminator		
IR Distance	up to 400 m IR distance	
PTZ		
Movement Range (Pan)	360°	
Movement Range (Tilt)	+40° to -90°	
Pan Speed	pan speed: configurable from 0.1° to 120°/s; preset speed: 120°/s	
Tilt Speed	tilt speed: configurable from 0.1° to 50°/s, preset speed 50°/s	
Proportional Zoom	yes	
Presets	300	
Patrol Scan	8 patrols	
Pattern Scan	4 pattern scans	



Power-off Memory	yes	
Dark Action	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan,	
Park Action	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,	
Scrieduled Task	panorama scan, dome reboot, dome adjust, aux output	
Video		
Max. Resolution	1920 × 1080	
Main Ctroom	50Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)	
Main Stream	60Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)	
Sub-Stream	50Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)	
Sub-Stream	60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)	
Third Stream	50Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)	
minu Stream	60Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)	
Video Compression	H.265, H.264, MJPEG	
H.264 Type	baseline profile, main profile, high profile	
H.265 Type	main profile	
H.264+	yes	
H.265+	yes	
SVC	yes	
ROI	yes	
ROI Audio	yes	
	yes G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM	
Audio		
Audio Audio Compression		
Audio Audio Compression	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM	
Audio Audio Compression Smart Features	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM Support detecting up to 30 faces at the same time. Support detecting, tracking,	
Audio Audio Compression Smart Features	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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	
Audio Audio Compression Smart Features Face Capture	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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.	
Audio Audio Compression Smart Features Face Capture	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception	
Audio Audio Compression Smart Features Face Capture Basic Event	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line	
Audio Audio Compression Smart Features Face Capture Basic Event	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record,	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record Alarm Linkage Network	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc. IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,	
Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record Alarm Linkage	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc. 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	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record Alarm Linkage Network Protocols	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc. IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record Alarm Linkage Network Protocols API	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc. 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 Open-ended API, ISAPI,Hikvision SDK,Third-party management platform,Hik-Connect,ISUP,Open Network Video Interface	
Audio Audio Compression Smart Features Face Capture Basic Event Smart Event Smart Tracking Smart Record Alarm Linkage Network Protocols	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,PCM 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. motion detection, video tampering alarm, alarm input, alarm output, exception unattended baggage detection, object removal detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection manual tracking, event tracking ANR, Dual-VCA Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc. 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 Open-ended API, ISAPI,Hikvision SDK,Third-party management	



Canada Marana	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X	
Security Measures	authenticated access,IP address filter	
Client	iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect, HikCentral Pro	
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+	
Interface	erface	
Communication Interface	1 RJ45 10 M/100 M Ethernet Interface	
No hoond Chauses	Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB;	
On-board Storage	NAS (NFS, SMB/ CIFS), ANR	
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: 600Ω	
Video Output	1.0V[p-p]/75Ω, PAL, NTSC	
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive	
General		
Vandal-proof Alarm	yes	
Power	24 VAC ± 25%, max.100 W	
Operating Conditions	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%	
Wiper	Yes. Rain-sensing auto control	
Material	Aluminum alloy ADC12	
Dimensions	460 mm × 390 mm × 491 mm (18.11" × 15.35" × 19.33")	
Weight	Approx. 15 kg (33.07 lb)	
	32 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,	
Web Client Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,	
web Client Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,	
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)	
Approval		
Protection	IP66 Standard, 6000V Lightning Protection, Surge Protection and Voltage Transient	
	Protection	

Available Model

DS-2DY9240IX-A(T5)

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.

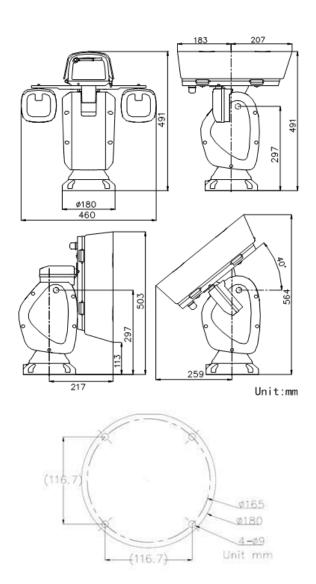
This model has NO SPECIFIC PROTECTION.

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) a	



1	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



- Accessory
- Optional





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