

DS-2DY9C442SXG-W/SP Searchlight Positioning System



- Adopt dual-channel design with single-channel wide-angle mode and dual-channel synergy mode options
- Both the panorama and detail lenses adopt F1.0 wide aperture, which significantly improves the image quality compared to traditional cameras
- Support encoding picture-in-picture, two video outputs through one stream, effectively reducing bandwidth and storage
- Suitable for urban high point lookout, highway, airport, seaport, tower, service area, scenic spot, river, lake, etc.
- Built-in high-power supplement light, support optical defog, and effectively improve video quality
- Support automatic synthesis panorama function, combined with the ability of 360° picture capture, automatically spliced into a 360° panorama, no need for manual synthesis, efficient and time-saving
- AI-ISP denoise: Adopt denoising convolutional neural network to apply the deep structure and learning algorithm to picture denoising, and finally the picture is updated and clear and the noise is smaller
- Adopt anti-heat wave technology to optimize the picture shake phenomenon caused by air airflow to ensure that the picture is clear and stable
- Support optical defog, wide dynamic range, smart noise reduction, etc., effectively improve video quality, built-in ultra-homogenized white light zoom laser, fill light irradiation distance up to 1000 m
- Support self-correction function, adopt closed-loop high-precision motor control technology, the PTZ can be automatically returned after offset, to ensure that the picture is not offset
- Support a variety of smart functions: Smart event, multi-target-type detection, target comparison, etc.
- Smart Event: Support arming of the configured area, when an abnormal target is detected, it can link the detailed camera to follow the target and upload alarm information

▪ Specification

Camera	
Image Sensor	1/1.8 " progressive scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC ON)
Shutter Speed	1/1s ~ 1/30,000s
Day & Night	ICR
Zoom	40 × optical, 16 × digital
Lens	
Focal Length	6 to 240 mm
FOV	Horizontal field of view: 54.1° to 2°, vertical field of view: 29.8° to 1.1°, diagonal field of view: 62.9° to 2.2°
Focus	Auto, semi-auto, manual
Aperture	F1.0
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-90° to 90°
Pan Speed	Pan speed: Configurable from 0.1° to 100°/s
Tilt Speed	Tilt speed: Configurable from 0.1° to 50°/s
Proportional Pan	yes
Presets	300
Preset Freezing	yes
Patrol Scan	8 patrols
Pattern Scan	4 pattern scans
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	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 24 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 24 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 288) 60 Hz: 24 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
Scalable Video Coding (SVC)	yes
Region of Interest (ROI)	yes
Audio	
Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/AAC/PCM/MP3

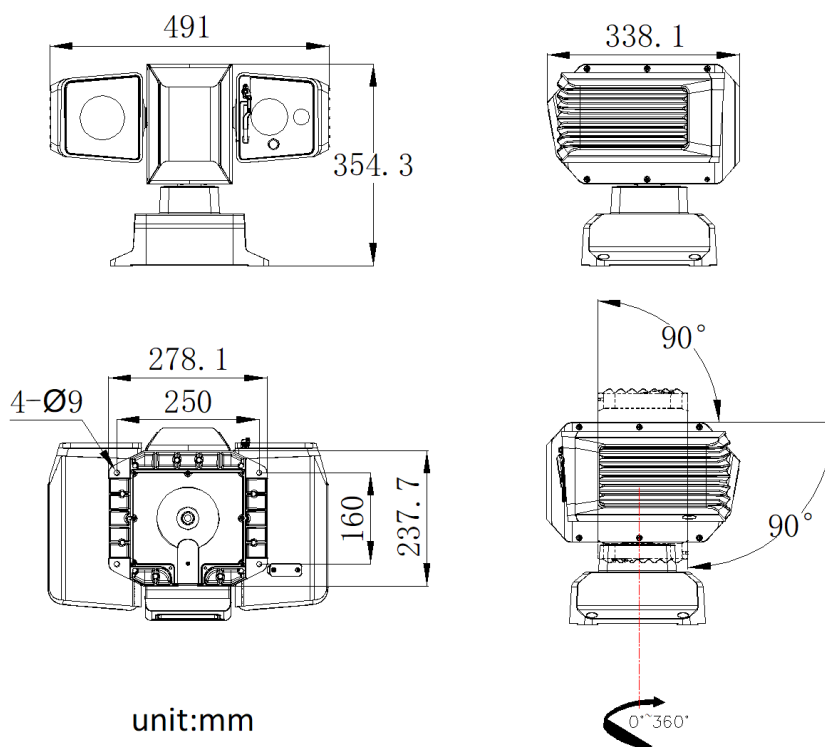
Audio Bit Rate	G.711: 64 Kbps, G.722.1: 16 Kbps, G.726: 16 Kbps, MP2L2: 32 to 192 Kbps, AAC-LC: 16 to 64 Kbps, MP3: 8 to 320 Kbps
Audio Sampling Rate	MP2L2: 16 KHz, 32 KHz, 48 KHz; AAC-LC: 16 KHz, 32 KHz, 48 KHz; PCM: 8 KHz, 16 KHz, 32 KHz, 48 KHz; MP3: 8 KHz, 16 KHz, 32 KHz, 48 KHz
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, Websocket, Websockets
Simultaneous Live View	Up to 20 channels
API	ISAPI, Hikvision SDK, Hik-Connect, ISUP, Open Network Video Interface
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User
Security	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Client	iVMS-4200
Web Browser	IE11, Chrome 80+, Firefox 80+, Safari 13+, Edge 89+
Network Storage	NAS (NFS, SMB/CIFS are supported)
Image	
Wide Dynamic Range (WDR)	yes
Image Stabilization	EIS
Regional Focus	yes
Defog	Optical defog
Supplement Detection	
Gyroscope	Yes
Compass	Yes
Interface	
Ethernet Interface	1 RJ45 10 M/100 M Ethernet Interface
On-board Storage	Built-in Micro SD card slot, up to 512 GB
Audio	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±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
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), 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
Linkage	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.
Smart Tracking	manual tracking, event tracking
Deep Learning Function	
Multi-Target-Type Detection	Support the capture of motor vehicles, non-motor vehicles, personnel and other targets, and support the simultaneous extraction of a variety of structured attribute information

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.
General	
Power	36 VDC $\pm$ 25%, 4.17 A, max. 150 W
Dimension	491 mm $\times$ 338 mm $\times$ 354 mm (19.33" $\times$ 13.31" $\times$ 13.94")
Weight	Approx. 22.54 kg (49.69 lb)
Operating Condition	Temperature: -40°C to 70°C (-40°F to 158°F) , Humidity: $\leq$ 95%
Wiper	Yes
Approval	
Protection	IP67

▪ Available Model

DS-2DY9C442SXG-W/SP(PTZ Light)

▪ Dimension



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