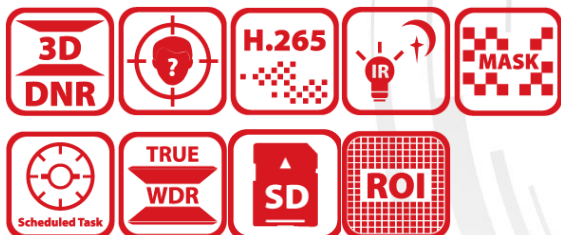# DS-2DY5225IX-D
2 MP 25 × Ultra-low illumination IR Positioning System Lite

- 1/1.8" progressive scan CMOS

- Up to 1920 × 1080 @ 30 fps resolution

- Min. illumination: Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.001 Lux @(F1.5, AGC ON), 0 Lux with IR

- 25 × optical zoom, 16 × digital zoom

- Low bit rate, true WDR, Defog, Smart IR

- Power-off memory, proportional zoom

- Up to 250 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)	1855.2 m (6086.61 ft)	736.2 m (2415.35 ft)	371 m (1217.19 ft)	185.5 m (608.6 ft)

▪ Specification

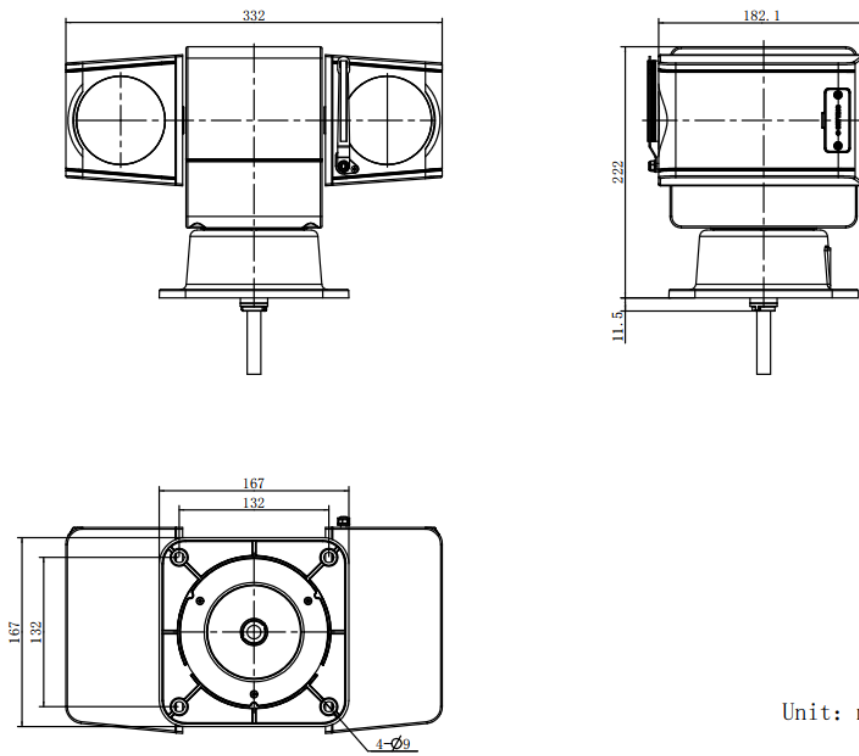| Camera	
Image Sensor	1/1.8" progressive scan CMOS
Max. Resolution	1920 × 1080
Min. Illumination	color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.001 Lux @ (F1.5, AGC ON), 0 Lux with IR
Shutter Speed	1/1s~1/30000 s
Day & Night	ICR
Zoom	25 × optical, 16 × digital
Slow Shutter	Yes
Lens	
Focal Length	5.9~147.5 mm，25 × optical
FOV	Horizontal FOV: 55.4° to 2.1° (wide-tele) Vertical FOV: 32.4° to1.2° (wide-tele) Diagonal FOV: 62° to 3.3° (wide-tele)
Focus	Auto/Semi-automatic/Manual
Aperture	F1.5
Zoom Speed	approx. 4.8 s
Illuminator	
Supplement Light Type	IR
Supplement Light Range	250 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	From +90° to -90° (auto flip)
Pan Speed	Configurable, from 0.1°/s to 80°/s, Preset speed: 80°/s
Tilt Speed	Configurable, from 0.1°/s to 40°/s Preset Speed: 40°/s
Proportional Pan	Yes
Presets	300
Preset Freezing	Yes
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
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 (1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	Main Stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG Third Stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16384 Kbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	Support
Region of Interest (ROI)	8 fixed regions for each stream
Network	
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
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
User/Host	Up to 32 users, 3 user levels: administrator, operator, and user
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)
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Client	iVMS-4200, HikCentral Pro, Hik-Connect
Web Browser	IE11, Chrome 57+, Firefox 52+, Safari 11+
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	120 dB WDR
SNR	≥52dB
Defog	Digital defog
Image Stabilization	EIS
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable

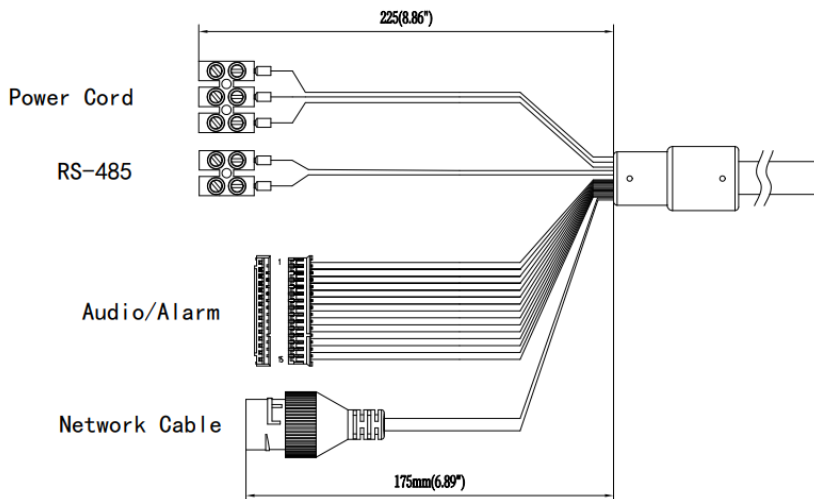| Regional Focus	Yes
Regional Exposure	Yes
Interface	
Ethernet Interface	1 RJ45 10 M/100 M Ethernet
On-board Storage	support microSD/microSDHC/microSDXC cards, up to 256 GB
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Audio	1 input, 1 output
Alarm	7 input, 2 output
Reset	Yes
Event	
Basic Event	Motion detection, video tampering alarm, exception
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection
Alarm Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)
Smart Tracking	Manual tracking, Event tracking
Deep Learning Function	
Face Capture	Support detecting up to 10 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	12 VDC Basic: 16W Max: 60 W, including max. 1.6 W for heater and 10 W for IR，PTZ operations；
Dimension	Ø332 mm × 182 mm × 222 mm (Ø 13.07" × 7.17" × 8.74")
Weight	Approx. 7.7 kg (16.98 lb.)
Material	ADC12
Operating Condition	Temperature: Outdoor: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 90%
Wiper	Yes
Approval	
Protection	IP66, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection

▪ Available Model

DS-2DY5225IX-D

Dimension

Unit: mm

Wiring

Power Cord

RS-485

Audio/Alarm

Network Cable

225(8.86")

175mm(6.89")

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