DS-2DY3220IW-DE(S6)
2MP Network IR PTZ Camera



Hikvision DS-2DY3220IW-DE(S6) 2MP Network IR PTZ Cameras adopt 1/2.8" progressive scan CMOS chip. With the 20 × 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.

- High quality imaging with 2 MP resolution
- Clear imaging against strong back lighting due to 120 dB WDR technology
- 20 × optical zoom provides close up views over expansive areas
- Good night-time performance with up to 50 m IR
- Water and dust resistant (IP66)

▪ 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)	1061.8 m (3483.7 ft)	421.4 m (1382.4 ft)	212.4 m (696.7 ft)	106.2 m (348.4 ft)

▪ Specification

Camera	
Image Sensor	1/2.8" progressive scan CMOS
Max. Resolution	1920 × 1080
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/1 s to 1/30,000 s
Day & Night	IR cut filter
Zoom	20 × optical, 16 × digital
Lens	
Focal Length	4.7 mm to 94 mm
FOV	Horizontal FOV 54.9° to 2.7°, vertical FOV 31.5° to 1.5°, diagonal FOV 62.3° to 3.1°
Focus	Auto, semi-auto, manual
Aperture	Max. F1.6
Zoom Speed	Approx. 3.2 s (Optical Lens, Wide-Tele)
Illuminator	
Supplement Light Type	IR
Supplement Light Range	IR Distance: up to 50 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	From -40° to 30°
Pan Speed	Configurable, from 0.5/s to 60°/s. Preset speed: 60°/s
Tilt Speed	Configurable, from 0.5°/s to 50°/s. Preset speed: 50°/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
PTZ Status Display	Yes
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Dome Reboot/Dome Adjust/Aux Output
Power-off Memory	Yes
Video	
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720); 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)

Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (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
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	8 fixed regions for each stream
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 Kbps to 160 Kbps(MP2L2)
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour, Websocket, Websockets
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (Version 18.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
User/Host	Up to 32 users; 3 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, host authentication (MAC address)
Network Storage	NAS (NFS, SMB/CIFS), ANR
Client	iVMS-4200, HikCentral Pro, Hik-Connect
Web Browser	IE10-11, Chrome 57.0+, Firefox 52.0+, Safari 12+
Image	
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Wide Dynamic Range (WDR)	120 dB
Defog	Digital defog
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	24 programmable polygon privacy masks, mask color configurable
Regional Focus	Yes
Regional Exposure	Yes
Interface	
Ethernet Interface	1 RJ45 10 M/100 M Ethernet Interface; PoE (802.3at, class4)
On-board Storage	Built-in memory card slot, support MicroSD/SDHC/SDXC, up to 256 GB
Audio	1 input, 1 output
Alarm	1 input, 1 output
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	Face detection, line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection
Alarm Linkage	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Audible Warning, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.
General	
Power	12 VDC, 2 A and PoE (802.3at), 42.5 to 57 VDC, 0.6 A, Class4 Max. 19 W, including max. 9.2 W for IR
Dimension	367 mm × 122 mm × 242 mm (14.45" × 4.80" × 9.53")
Weight	Approx. 3 kg (6.61 lb)
Operating Condition	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 90% or less (non-condensing)
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
Approval	
Protection	IP66 Standard; 6000V Lightning Protection, Surge Protection and Voltage Transient Protection

▪ Available Model

DS-2DY3220IW-DE(S6)(B)

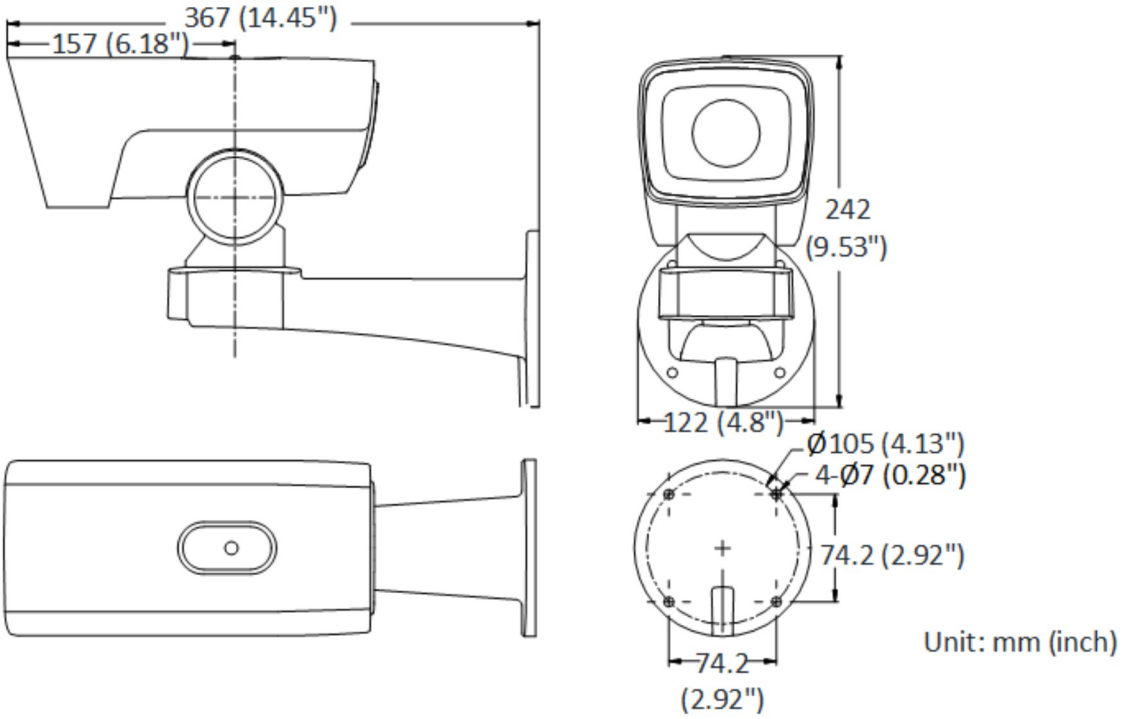
▪ Typical Application

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) away 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

▪ Included

ASW0081-1220002W Power adapter


▪ Optional

DS-1275ZJ(SPTZ)	DS-1280ZJ-M(SPTZ)
	

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