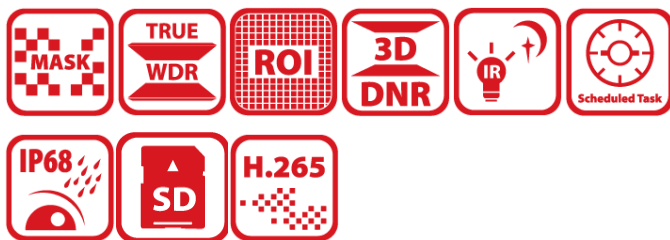


DS-2DF8A425MXG0-CWX(316L) 316L 4MP 25x Explosion-proof Network Speed Dome



- Ex-mark: ATEX: Ex II 2GD Ex db IICT6 Gb /Ex tb IIICT80°C Db; IECEx: Ex db IICT6 Gb /Ex tb IIICT80°C Db
- 1/2.8" progressive scan CMOS
- Up to 2560 × 1440 @30 fps resolution
- Min. illumination: Color: 0.005 Lux @(F1.66, AGC ON) , B/W: 0.001 Lux @(F1.66, AGC ON) , 0 Lux with IR
- 25× optical zoom, 16 × digital zoom
- 120 dB WDR, HLC, BLC, 3D DNR, Defog, EIS, Regional Exposure, Regional Focus
- Expansive night view with up to 100 m IR distance and 30 m white light
- Support H.265+/H.265 video compression

▪ Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.005 Lux @ (F1.66, AGC ON), B/W: 0.001 Lux @ (F1.66, AGC ON), 0 Lux with IR
Shutter Speed	1/1 s to 1/30000 s
Day & Night	Schedule, Night, Day, Auto
Zoom	25 × optical, 16 × digital
Slow Shutter	No
Lens	
Focal Length	5.57 to 139.25 mm
FOV	Horizontal field of view: 60.72° to 2.2°, vertical field of view: 35.92° to 1.3°, diagonal field of view: 68.14° to 2.6°
Focus	Auto, semi-auto, manual
Aperture	F1.66
Zoom Speed	Approx. 3.6 s
Illuminator	
Supplement Light Type	IR, White Light
Supplement Light Range	IR distance: up to 100 m, White light distance: up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	-5° to 90°
Pan Speed	Pan speed: configurable from 0.1° to 30°/s, preset speed: 30°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 20°/s, preset speed 20°/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	50Hz : 25fps (2560 × 1440 , 1920 × 1080 , 1280 × 960 , 1280 × 720)
	60Hz : 30fps (2560 × 1440 , 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 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.711, G.722.1, G.726, MP2L2, PCM, MP3
Audio Bit Rate	16~64 Kbps(AAC-LC)/8~160 Kbps(MP3)/64 Kbps (G.711ulaw/G.711alaw)/16 Kbps(G.722.1)/16 Kbps(G.726)/32~160 Kbps(MP2L2)
Audio Sampling Rate	8 kHz, 16 kHz, 32 kHz, 48 kHz
Environment Noise Filtering	Yes
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
Simultaneous Live View	Up to 20 channels
API	ONVIF (Profile S, Profile G, Profile T, Profile M), ISAPI, SDK, ISUP
Smooth Streaming	Yes
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, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2/1.3, host authentication (MAC address), TPM 2.0 (FIPS 140-2 level 2)
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+
AI Open Platform	
Model Specification	Model type for AI Open Platform trained algorithm loading: high-performance model (small model). Supports 4 model packages, each capable of detecting 16 target types and classifying 1 target. The targets can be classified as 64 types. The device runs only 1 model at the same time.
Task Type	Algorithm type for AI Open Platform high-performance model (small model): Detection, Classification.
Event Type	Region target exception status detection, region target number counting, area overlap ratio counting, area overlap ratio exception detection, line crossing target detection, line crossing target counting, full analysis rule, combined rule
Rule Setting	Up to 16 rules.
Image	
Image Parameters Switch	Yes
Image Settings	brightness, contrast, sharpness, white balance, saturation, gain, adjustable by client software or web browser
Day/Night Switch	auto
Wide Dynamic Range (WDR)	120 dB

SNR	≥ 52 dB
Defog	Digital defog
Image Enhancement	HLC,BLC,3D DNR
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)
Interface	
Ethernet Interface	1 RJ45 10/100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Audio	1 input, input impedance 4.7 kΩ, input amplitude range: 0 to 1 Vrms 1 output, output impedance 100 Ω, output amplitude range: 0 to 0.5 Vrms
Alarm	2 input(s), 2 output(s)
Fiber Optical	FC interface, built-in fiber module (100 M, TX1310/RX1550nm wavelength, single module fiber, up to 20 km transmission distance)
Event	
Basic Event	Motion detection, video tampering alarm, exception, alarm input and output
Smart Event	Line crossing detection, parking detection, region entrance detection, intrusion detection, object removal detection, people gathering detection, fast moving detection, region exiting detection, loitering detection, unattended baggage detection
Linkage	send email, Upload to FTP/NAS/memory card, white light flashing, audible warning, PTZ actions, trigger alarm output, notify surveillance center, trigger recording
Smart Tracking	auto-tracking
Deep Learning Function	
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting. Support alarm triggering by specified target types (human and vehicle)
Multi-Target-Type Detection	Supports simultaneous detection and capture of human body, face and vehicle
Face Capture	Uploads face with background and closed-up face pictures, Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture
Road Traffic and Vehicle Detection	Blocklist and allowlist: up to 10,000 records Captures vehicle that has no license plate Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)
Regional People Counting	Support
General	
Power	100 VAC to 240 VAC, Max. 35W
Dimension	253.2 mm × 216.7 mm × 342.8 mm (11.41" × 8.53" × 13.49")
Weight	Approx. 13.3 kg (29.33 lb.)
Material	Electro-polished 316L Stainless Steel
Operating Condition	-30 °C to 60 °C (-30 °F to 140 °F). Humidity 95% or less (non-condensing)
Cable Length	1.25 m (4.10 ft.)
General Function	Anti-flicker, heartbeat, mirror, flash log, password reset via e-mail, pixel counter, password protection, one-key reset, three streams
Wiper	Yes

Approval	
EMC	CE-EMC (EN 55032:2015, EN 61000-3-2:2019, EN 61000-3-3:2013, EN 50130-4:2011 +A1: 2014),RCM (AS/NZS CISPR 32: 2015)
Safety	CB (IEC 62368-1: 2014 + A11),CE-LVD (EN 62368-1: 2014/A11: 2017)
Environment	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No 1907/2006)
Protection	IP68 (IEC 60529-2013),IK10 (IEC 62262:2002),TVS 4000 V lightning protection, surge protection and voltage transient protection
Explosion-Proof Protection	ATEX: II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68, IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68,For explosive gas atmospheres, the maximum surface temperature is 85°C; For flammable dust atmospheres, the maximum surface temperature is 80°C; IIC: for explosive gas atmospheres other than mines susceptible to firedamp; For explosive gas mixture atmospheres: Zone 1, Zone 2, Zone 21, Zone 22.

▪ 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)	2787.8 m (9146.3 ft)	1106.3 m (3629.5 ft)	557.6 m (1829.3 ft)	278.8 m (914.6 ft)

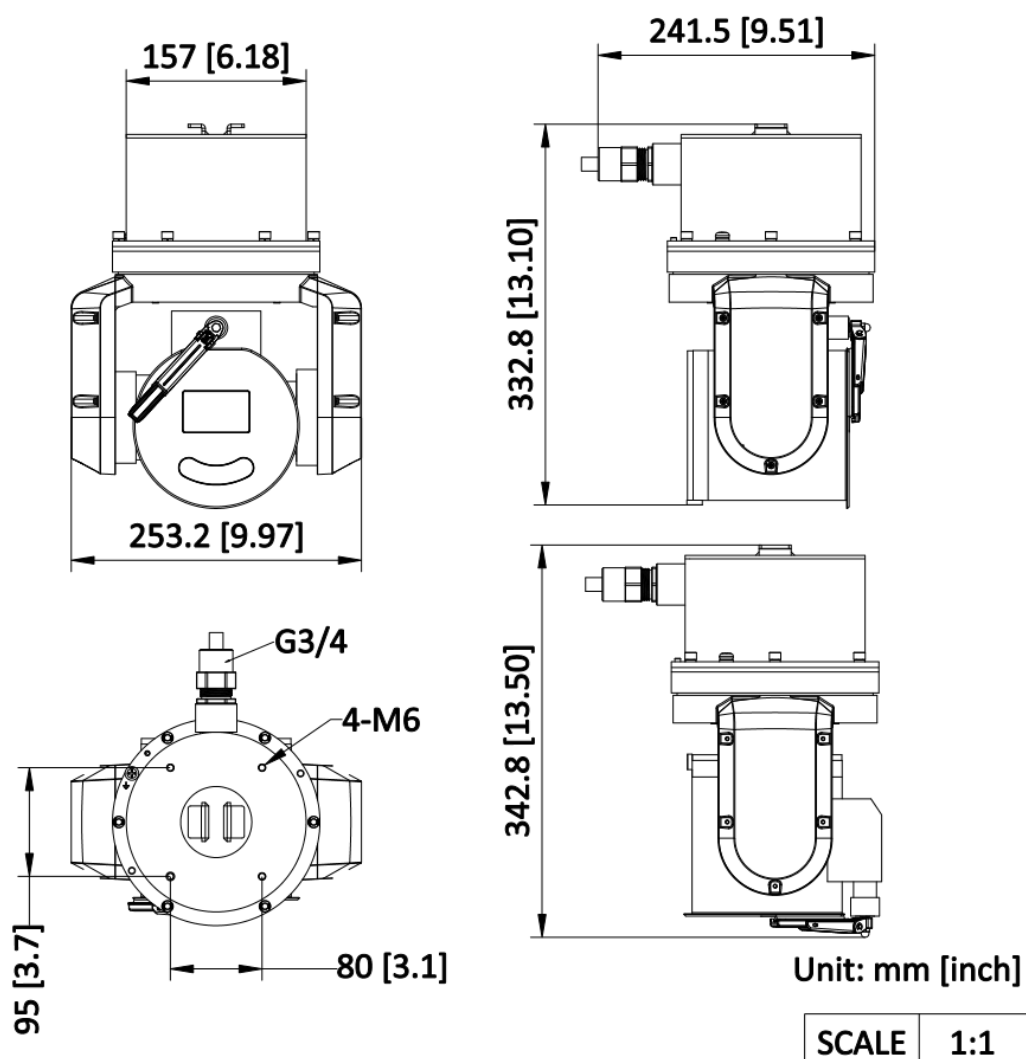
▪ Typical Application

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 TOP-LEVEL 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

DS-4402ZJ-NSL

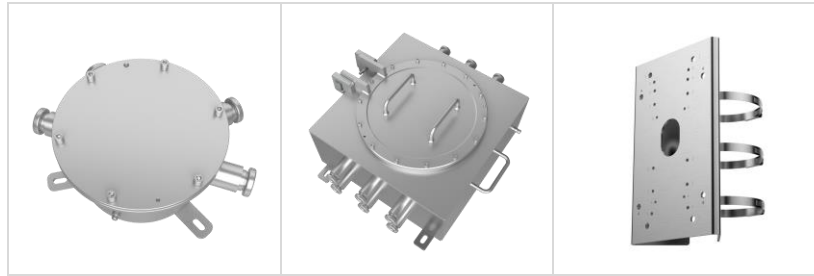


▪ Optional

DS-2XE2705-M04(3
16L)

DS-2XE2707CB-M1
2(316L)

DS-1751ZJ-AC(OS)



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