

DS-2SK8C440MXG1-LWF/28(25x25x)**DeepinView Omni PTZ 8C Series 4 MP 40X DarkFighter Network Speed Dome**

Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- With an integrated design, it features 3 built-in independent PTZ to accommodate multiple scenarios
- High quality imaging with 4 MP resolution for all channels
- Excellent low-light performance with DarkFighter 2.0 technology
- PTZ channel 2/3 pan adjustable from 0° to 360°, tilt adjustable from -33° to 90°
- PTZ channel 1 secures an expansive area with 40 × optical zoom and 16 × digital zoom
- Expansive night view with up to 80 m white light distance and 350 m IR distance for PTZ channel 1, and 150 m IR distance for PTZ channel 2/3
- Supports deep learning functions including ITS
- Water and dust resistant (IP67) and vandal resistant (IK10) excluding glass window
- Support 0° to 280° unit base pan for all PTZ channels at the same time

▪ Specification

Camera	
Image Sensor	[PTZ channel 2/3]1/1.8" Progressive Scan CMOS, [PTZ channel 1] 1/1.8" Progressive Scan CMOS
Min. Illumination	[PTZ channel 2/3]Color: 0.0005 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON), 0 Lux with light, [PTZ channel 1] Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 lux with IR
Shutter Speed	1/25 s to 1/30000 s
Slow Shutter	Yes
Day & Night	[PTZ channel 2/3]Auto,Night,Schedule,Day, [PTZ channel 1] Auto,Night,Schedule,Day
Zoom	[PTZ channel 2/3]25 × optical, 16 × digital, [PTZ channel 1] 40 × optical, 16 × digital
Lens	
FOV	[PTZ channel 2/3] horizontal field of view: 58.8° to 3.1°, vertical field of view: 34.4° to 1.7°, diagonal field of view: 66° to 3.5°, [PTZ channel 1] horizontal field of view: 59.1° to 2°, vertical field of view: 34.1° to 1.1°, diagonal field of view: 67.1° to 2.3°
Focus	Auto,semi-auto>manual,rapid focus
Focal Length	[PTZ channel 2/3]6 to 150 mm, [PTZ channel 1] 6 to 240 mm
Aperture	[PTZ channel 2/3]F1.5, [PTZ channel 1] F1.2
Illuminator	
Supplement Light Range	[PTZ channel 2/3]IR up to 150 m [PTZ channel 1] white light: up to 80 m; IR up to 350 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	[Base] 0° to 280° ,(Max.5000cycles),[PTZ channel 2/3]0° to 360°, [PTZ channel 1] 0° to 360°
Movement Range (Tilt)	[PTZ channel 2/3]-33° to 90°, [PTZ channel 1] -20° to 90°
Pan Speed	[PTZ channel 2/3]pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s,[PTZ channel 1] pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s
Tilt Speed	[PTZ channel 2/3]tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s,[PTZ channel 1] tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s
Proportional Pan	Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	Yes
Park Action	Preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,framescan,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,framescan,panorama scan,dome reboot,dome adjust,aux output
Video	
Main Stream	[PTZ channel 2/3]50Hz:25fps (2688×1520,2560×1440,1920×1080,1280×960,1280×720) 60Hz:30fps (2688×1520 , 2560×1440,1920×1080,1280×960,1280×720) [PTZ channel 1] 50Hz:25fps (2688×1520,2560×1440,1920×1080,1280×960,1280×720) 60Hz:30fps (2688×1520 , 2560×1440,1920×1080,1280×960,1280×720)
Sub-Stream	[PTZ channel 1] 50 Hz: 25 fps (704×576,640×480,352×288), 60 Hz: 30 fps (704×480,640×480,352×240),[PTZ channel 2/3]50 Hz: 25 fps (1200 × 536、 960×432), 60 Hz: 30 fps (1200 × 536、 960×432)
Third Stream	[PTZ channel 1] 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 × 576, 640 × 480, 352 × 288),[PTZ channel 2/3]No
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
Audio	
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC,MP3
Audio Sampling Rate	8 kHz,16 kHz,32 kHz,48 kHz
Network	
API	ISAPI,SDK,ISUP
Network Storage	NAS (NFS, SMB/CIFS),auto network replenishment (ANR)
Protocols	RTP,IGMP,IPv4,UDP,SFTP,RTCP,WebSocket,SSL/TLS,ICMP,HTTPS,QoS,HTTP,SMTP,SNMP,RTSP,NTP,FTP,DDNS,TCP/IP,DNS,802.1X,IPv6,DHCP,PPPoE,UPnP,WebSockets
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Security	Password protection,complicated password,HTTPS encryption,IP address filter,802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5),watermark,host authentication (MAC address),TPM 2.0 (FIPS 140-2 level 2)
Client	iVMS-4200,HikCentral Pro,Hik-Connect
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+
Image	
Wide Dynamic Range (WDR)	120 dB
Day/Night Switch	Day,night,auto,schedule
Image Enhancement	HLC,3D DNR
Privacy Mask	[PTZ channel 2/3]8 programmable polygon privacy masks, [PTZ channel 1] 24 programmable polygon privacy masks;mask color or mosaic configurable
Defog	Optical defog
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)

Regional Exposure	Yes
Regional Focus	[PTZ channel 2/3]No, [PTZ channel 1] Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Image Parameters Switch	Yes
SNR	≥ 52 dB
Supplement Detection	
Satellite Positioning	No
Gyroscope	Yes
Compass	No
Interface	
Fiber Optical	1 FC interface, built-in fiber module, 1000M, TX1310/RX1550 nm wavelength, single module fiber, up to 20 km transmission distance
Ethernet Interface	1 RJ45 1000M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Alarm	7 input(s), 2 output(s)
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 KΩ ± 10%, 1 output (line out), line level, output impedance: 600 Ω
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset	Yes
Large Models	
Intelligent Transportation System	Road incident detection: Support road incident detection for highways and elevated roads: fallen object detection, pedestrian detection
Event	
Basic Event	[PTZ channel 1 & PTZ channel 2/3] alarm input and output, exception, [PTZ channel 1] motion detection, video tampering alarm
Linkage	Upload to FTP/NAS/memory card, send email, trigger alarm output, trigger recording, audible warning, notify surveillance center, and PTZ actions (such as preset)
Deep Learning Function	
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, loitering detection, people gathering detection, fast moving detection, parking detectionSupport alarm triggering by specified target types (human and vehicle)
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection

Intelligent Transportation System	Traffic Violation Evidence Collection: illegal parking, reverse driving, over lane line detection, continuous lane change, motor vehicle on non-motor vehicle lane, U-turn, slalom driving, illegal lane change, and queue jumping. Traffic Data Collection: Traffic Flow. Road incident detection: (1) Road incident detection for highways and elevated roads: fallen object detection, pedestrian detection, congestion detection, roadblock detection, construction detection, traffic accident detection, fog detection, smoke detection, and fire detection; (2) Road incident detection for urban roads: congestion detection, roadblock detection, construction detection, traffic accident detection, fog detection, smoke detection, and fire detection Supports general highway incident detection : supports pothole detection, crack detection, and alligator cracking detection
AcuSeek	Support search for humans, vehicles, non-motorized vehicles, and animals (large animals (cattles, horses, sheep, pigs), small animals (cats, dogs), poultry (chicken, ducks, geese)). This function requires use with AcuSeek NVR/Servers.
Multi-Target-Type Detection	[PTZ channel] Supports simultaneous detection and capture of human body, face and vehicle, Supports counting the number of line crossing targets by type, including human body, non-motor vehicle, motor vehicle, Supports dynamic mosaic mask
Linkage and Tracking	
Smart Tracking	Manual tracking, auto-tracking
Smart Linkage	manual tracking, tracking takeover, linked tracking capture, track in turn, panorama linkage
Object Tracking	Support person arming. When the device detects the armed face or human body in the monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded. Support vehicle arming. When the device detects the armed vehicles in the monitoring scene, it triggers alarms, and tracks and captures the target. During the tracking, the target location and other related information are uploaded.
General	
General Function	mirror, password protection
Power	36 VDC $\pm$ 25%, Max. 120 W, including max. 22.6 W for IR and max. 13W for heater
Operating Condition	-40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing), For speaker: -30 °C to 55°C (-22°F to 131°F)
Wiper	Yes
Demist	Yes
Material	ADC12
Dimension	779 mm $\times$ 277 mm $\times$ 523 mm (31" $\times$ 11" $\times$ 21")
Weight	Approx. 20.8 kg (45.76 lb.)
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	
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014), RCM (AS/NZS CISPR 32: 2015), IC (ICES-003: Issue 7)
Safety	CB (IEC 62368-1: 2014 + A11), CE-LVD (EN 62368-1: 2014/A11: 2017)

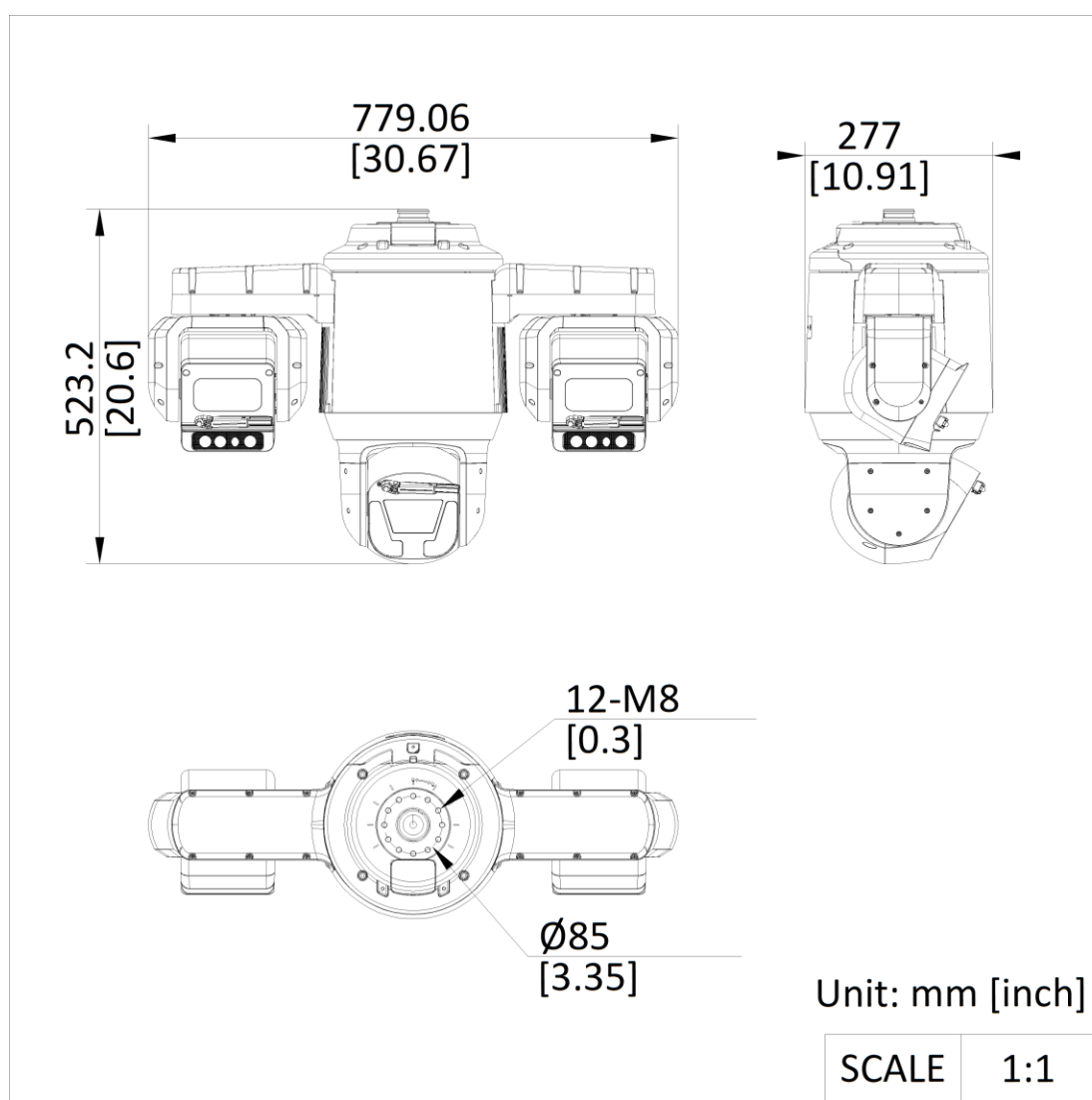
Environment	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013),TVS 6000 V lightning protection, surge protection and voltage transient protection,IK10 (IEC 62262:2002, excluding glass window)

▪ 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
[PTZ channel 2/3]Distance	2069.0m	821.0m	413.8m	206.9m
[PTZ channel 1] Distance (Tele)	3310.3m	1313.6m	662.1m	331.0m

▪ Dimension

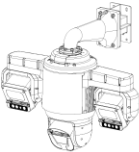


▪ Accessory

▪ **Optional**

DS-4604ZJ-500-PA	DS-4614ZJ-PA
	

▪ **Installation Methods**

Wall Mounting DS-4604ZJ-500-PA+DS-1684ZJ-P	Pendant Mounting DS-4614ZJ-PA+DS-2115ZJ-P
	

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