

DS-2SF7C825MXG2/LM-EL(W)(Y)/14

DeepinViewX TandemVu 7C Series 8 MP 25X DarkFighter Network Speed



DeepinView X













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.

- Dedicated large scale AI model for perimeter protection
- Captures a large area and great details at the same time
- High quality imaging with 4 MP resolution for bullet channel and 8 MP resolution for PTZ channel
- 24/7 colorful imaging and excellent low-light performance with DarkFighter 2.0 technology
- Bullet channel tilt adjustable from 7° to 17°
- Secures an expansive area with 25 × optical zoom and 16 × digital zoom
- Expansive night view with up to 80 m hybrid light distance and 400 m IR distance
- Supports deep learning functions
- Water and dust resistant (IP67) and vandal resistant (IK10) excluding glass window
- Smart Pan-Tilt Correction



Specification

Camera					
Image Sensor	[Panoramic channel] 1/1.8" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive				
mage sensor	Scan CMOS				
Min. Illumination	[Bullet channel] Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC				
	ON), 0 Lux with IR,				
	[PTZ channel] Color: 0.0005 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON)				
Shutter Speed	1/25 s to 1/30000 s				
Slow Shutter	Yes				
Day & Night	[Bullet channel] Color, [PTZ channel] IR cut filter				
Zoom	[PTZ channel] 25 × optical, 16 × digital				
Max. Resolution	[Bullet channel] 2688 × 1520, [PTZ channel] 3840 × 2160				
Lens					
Focus	Auto,semi-auto,manual				
Zoom Speed	[Bullet channel] No, [PTZ channel] approx. 4.8 s				
Focal Length	[Bullet channel] 4 mm, [PTZ channel] 5.9 to 147.5 mm				
	[Bullet channel] horizontal field of view: 89° ± 5°°, vertical field of view: 45° ± 5°°,				
FOV	diagonal field of view: 107° ± 5°°, [PTZ channel] horizontal field of view: 60.2° to 2.3°,				
	vertical field of view: 35.2° to 1.3°, diagonal field of view: 67.4° to 2.6°				
Aperture	[Bullet channel] F1.0, [PTZ channel] F1.5				
Illuminator					
Supplement Light Type	[Bullet channel] White light and IR, [PTZ channel] IR				
Consular and High Barray	[Bullet channel] White Light: up to 40 m, IR: up to 80 m				
Supplement Light Range	[PTZ channel] IR: up to 400 m				
Smart Supplement Light	Yes				
PTZ					
Movement Range (Pan)	[PTZ channel] 0° to 360°				
Movement Range (Tilt)	[Bullet channel] 7° to 17°, [PTZ channel] -20° to 90°				
Pan Speed	[PTZ channel] pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s				
TileCoord	[Bullet channel] tilt speed configurable,[PTZ channel] tilt speed: configurable from 0.1°				
TiltSpeed	to 120°/s, preset speed 200°/s				
Proportional Pan	[Bullet channel] No, [PTZ channel] 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,frame scan,panorama				
2D Desitioning	scan				
3D Positioning	Yes				
PTZ Status Display	Yes				
Preset Freezing	Yes				
Scheduled Task	Preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output				



Video					
[Bullet channel] 50 Hz: 25 fps (2688×1520 , 2560×1440), 60 Hz: 30 fps (2682560×1440) [PTZ channel] 50 Hz: 50 fps (3840×2160 , 2688×1520), 100 fps ($1920 \times 1080 \times 1280 \times 720$), 60 Hz: 60 fps (3840×2160 , 2688×1520), 120 fps ($1920 \times 1280 \times 960$, 1280×720) *High frame rate is supported under monitoring mode only.					
Sub-Stream	[Bullet channel] 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288), 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240),[PTZ channel] 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288), 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)				
Third Stream	[Bullet channel] No,[PTZ channel] 50 Hz: 25 fps (1920 \times 1080, 1280 \times 960, 1280 \times 720, 704 \times 576, 640 \times 480, 352 \times 288), 60 Hz: 30 fps (1920 \times 1080, 1280 \times 960, 1280 \times 720, 704 \times 480, 640 \times 480, 352 \times 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,MP2L2,AAC-LC,MP3,G.726,G.722.1,PCM				
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw),32 to 192 Kbps (MP2L2),16 to 64Kbps (AAC-LC),8 to 320 Kbps (MP3),16 Kbps (G.726),16 Kbps (G.722.1)				
Audio Sampling Rate	8 kHz,16 kHz,32 kHz,48 kHz				
Environment Noise Filtering	Yes				
Network					
API	ISAPI,SDK,ISUP,ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T, Profile M), OTAP				
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 1.3, host authentication (MAC address), TLS 1.2				
Network Storage	NAS (NFS, SMB/CIFS),auto network replenishment (ANR)				
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1X,QoS,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,T CP/IP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,FTP				
Simultaneous Live View	Up to 20 channels				
User/Host	Up to 32 users.3 user levels:administrator, operator, and user				
Client	iVMS-4200,HikCentral Pro,Hik-Connect				
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+;				
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+				



Al Open Platform					
•	Model type for Al Open Platform trained algorithm loading: high-performance model				
Model Specification	(small model), enhanced high-performance model (hybrid small-large model), and ultra-high-precision model (large model). Usua Supports 4 model packages, each capable of detecting 16 target types and classifying 1 target. The device runs up to 2 small models or 1 large model at the same time.				
Task Type	Algorithm type for AI Open Platform high-performance model (small model): Detection, Classification, Mixed (maximum: 1 detection + 7 classifications), OCR, Segmentation, Image Comparison. Supports simultaneous independent operation models. Supports video analysis and image analysis. Algorithm type for AI Open Platform enhanced high-performance model (hybrid small-large model): Detection, Classification, Mixed (maximum: 1 detection + 7 classifications). Supports video real-time analysis. Algorithm type for AI Open Platform ultra-high-precision model (large model): Detection, Classification, Mixed (maximum: 1 detection + 7 classifications), OCR. Supports image scheduled analysis and I/O-triggered analysis. Supports algorithm orchestration for comparison. Supports importing user-define orchestration packages (3 operator nodes, 5 logic nodes) for scenario-based application deployment.				
	Region target exception status detection, region target number counting, area overlap				
Event Type	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. Supports moving target filtering and shield region setting.				
Image					
Day/Night Switch	Day,night,auto,schedule				
Image Enhancement	3D DNR,HLC,BLC,EIS				
Wide Dynamic Range (WDR)	[Bullet channel] 120 dB, [PTZ channel] 140 dB				
Defog	Digital defog				
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)				
Regional Exposure	Yes				
Regional Focus	[Bullet channel] No, [PTZ channel] Yes				
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser				
Image Parameters Switch	Yes				
Privacy Mask	[Bullet channel] No, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable				
SNR	≥ 52 dB				
Supplement Detection					
Satellite Positioning	No				
Gyroscope	Yes				
Compass	No				
Interface					
Reset	Yes				
Ethernet Interface	1 RJ45 100M self-adaptive Ethernet port				
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1TB.				
Alarm	7 input(s), 2 output(s)				



Audio	1 input (linein), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω ± 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)			
Large Models				
	Line crossing, intrusion, region entrance, region exiting			
	Support alarm triggering by specified target types (human and vehicle)			
	Support combined event alarm triggering			
Perimeter Protection	Dedicated large scale AI model for perimeter protection, reduce false alarms by 90%			
Termeter Protection	compared to conventional Al cameras			
	VCA range: [Bullet channel] up to 60m(nighttime)/100m(daytime), [PTZ channel] Wide:			
	up to 70m(nighttime)/100m(daytime), Tele: up to 400m			
	*Result based on standard setup and test environment			
	This function is based on the large model technology combined with image			
	classification detection. It can automatically detect and identify scene categories in the			
	detection area, including road, intersection, toll station, petrol station, open-air			
	square, vehicle entrance and exit, and person entrance and exit, etc. The PTZ camera			
	will rotate 360° to capture and label the scenes. For automatically recognize the scene			
	information of captured image Real-time detection mode: the PTZ camera completes			
Scenario-Aware Object	the full-scene capture, detection, and recognition output within 10 minutes in 360°			
Detection	Scheduled detection mode: the scheduled time can be set, and pictures can be			
	collected every day or week. The collected pictures will be stored in eMMC, and the			
	detection results will be output at 2 AM by default. The detection results and labels can			
	be uploaded as alarms, and the alarm should include the camera IP address, port No.,			
	channel No., capture time, upload time, picture, PTZ coordinates, label ID, label name,			
	and OCR information, as well as the coordinates of each OCR.			
Event				
	[PTZ channel] video tampering alarm,[PTZ channel & bullet channel] alarminput and			
Basic Event	output, exception			
	unattended baggage detection,object removal detection,people gathering			
Smart Event	detection, fast moving detection, loitering detection, parking detection			
	[Bullet channel] no,[PTZ channel] Upload to FTP/NAS/memory card, notify surveillance			
Linkage	center, send email, trigger alarmoutput, trigger recording, audible warning, white light			
Linkage	flashing, and PTZ actions (such as preset, patrol scan, pattern scan)			
Deep Learning Function	mashing, and 112 actions (such as preset, patron sean, pattern sean)			
Multi-Target-Type Detection	Supports simultaneous detection and capture of human body, face and vehicle			
wara-ranger-rype Detection	Detects up to 30 faces simultaneously,			
Face Capture	Uploads face with background and closed-up face pictures			
Face Comparison	Up to 10 face libraries. 30000 faces for each library. 150000 faces in total,			
Face Comparison	Recognizes face identity via face modeling, grading and comparing to those in face			
	library			



	Smart Function:
	Support license plate recognition of vehicles and motorcycles (only in checkpoint
	scenario)
	Support vehicle attribute detection, including vehicle type, color, brand, driving
	direction, etc.
	Support vehicle and non-vehicle counting
	Blocklist and allowlist: up to 10,000 records
	LPR Countries/Regions:
Road Traffic and Vehicle	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/region
Detection	Accuracy (Under recommended installation and lighting conditions):
	License plate recognition rate ≥98%
	Capture rate ≥99%
	Driving direction accuracy rate ≥98%
	Vehicle Capture Speed:
	Front installation in checkpoint scenario: up to 120 km/h
	Side installation: up to 80 km/h
	Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode
People Density	Supports detecting the level of people density in the configured area
Linkage and Tracking	supports detecting the rever of people density in the configured died
Smart Tracking	Manual tracking, auto-tracking 3.0
Smart Linkage	Manual tracking, auto tracking tracking takeover, linked tracking capture
Jillart Lilikage	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
Object Tracking	vehicle arming. When the device detects the armed vehicles in the monitoring scene,
	triggers alarms, and tracks and captures the target. During the tracking, the target
	location and other related information are uploaded.
General	Tocation and other related information are aproaded.
	36 VDC± 25%, max. 90 W (Max. 65 W, including max. 15 W for IR and max. 8 W for
	heater),
Power	PoE 802.3bt, type4, class8, max. 90W (Max. 65W, including max. 15W for IR and max.
	8 W for heater)
General Function	mirror,password protection
Operating Condition	-40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing)
Wiper	Yes
Demist	Yes
Material	ADC12
Dimension	Ø260 mm × 382.9 mm (Ø10.24" × 15.07")
Weight	Approx. 7.8 kg (17.196 lb.)
vv ci giit	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Approval	mai, vieuramese, Japanese, Latvian, Liunuaman, Foi tuguese (Biazir), Oki aillian
	CE-EMC (EN 50130-4:2011+A1:2014, EN 55032:2015+A11:2020+A1:2020, EN
EMC	61000-3-3:2013+A1:2019+A2:2021, EN IEC 61000-3-2:2019+A1:2021)
Safety	CE-LVD (EN 62368-1:2014 + A11:2017),CB (IEC 62368-1:2014)



Environment	CE-RoHS (2011/65/EU and its amendment (EU)2015/863)		
Protection	IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013),IK10 (IEC 62262:2002)		

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
[Bullet channel]	55.2m	21.9m	11.0m	5.5m
Distance				
[PTZ channel]	2034.5m	807.3m	406.9m	203.4m
Distance (Tele)				

Available Model

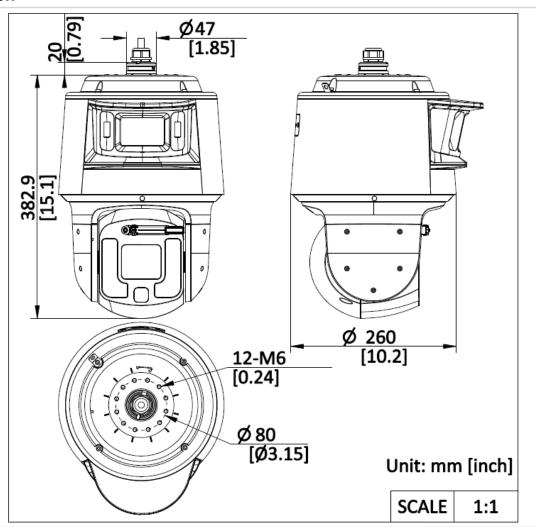
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DS-2SF7C825MXG2/LM-ELY/14(F1)

DS-2SF7C825MXG2/LM-EL/14(F1)

DS-2SF7C825MXG2/LM-ELW/14(F1)

Dimension





Accessory

Optional



Installation Methods

• Installation Wetho	us			
Wall Mounting DS-4603ZJ-PA	Pendant Mounting DS-4612ZJ-PA	Junction Box DS-1674ZJ-P+DS-4603 ZJ-PA	Vertical Pole Mounting DS-1684ZJ-P+DS-4603 ZJ-PA	Vertical Pole Mounting DS-4650ZJ-PC+DS-460 3ZJ-PA+DS-1674ZJ-P
Horizontal Pole Mounting DS-1673ZJ-P+DS-4612 ZJ-PA	Corner Mounting DS-4660ZJ-PC+DS-460 3ZJ-PA+DS-1674ZJ-P	Corner Mounting DS-1276ZJ-P+DS-4603 ZJ-PA		

See Far, Go Further



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