

DS-2SF7C442MXG1-EL(W)(Y)/14**DeepinView TandemVu 7C Series 4 MP 42X DarkFighter Network Speed Dome****DeepinView^{series}****DarkFighter^{2.0}**

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.

- Captures a large area and great details at the same time
- High quality imaging with 4 MP resolution for both bullet channel and 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 42 × optical zoom and 16 × digital zoom
- Expansive night view with up to 30 m white 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
- Audio visual alarm: The white flashing light and audible warning can be triggered by certain events

▪ Specification

Camera	
Image Sensor	[Bullet channel] 1/1.8" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive 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 light, [PTZ channel] 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	[Bullet channel] Color, [PTZ channel] IR cut filter
Zoom	[PTZ channel] 42 × optical, 16 × digital
Max. Resolution	[Bullet channel] 2688 × 1520, [PTZ channel] 2688 × 1520
Lens	
Zoom Speed	[Bullet channel] No, [PTZ channel] approx. 5.6 s
Focus	Auto, semi-auto, manual
Focal Length	[Bullet channel] 4 mm, [PTZ channel] 6 to 252 mm
FOV	[Bullet channel] horizontal field of view: 89° ± 5°, vertical field of view: 45° ± 5°, diagonal field of view: 107° ± 5°, [PTZ channel] horizontal field of view: 59.1° to 2°, vertical field of view: 34.2° to 1.1°, diagonal field of view: 67.1° to 2.3°
Aperture	[Bullet channel] F1.0, [PTZ channel] F1.2
Illuminator	
Supplement Light Type	[Bullet channel] White Light and IR, [PTZ channel] IR
Supplement Light Range	[Bullet channel] white light: up to 30 m, [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
Tilt Speed	[Bullet channel] tilt speed configurable, [PTZ channel] tilt speed: configurable from 0.1° 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 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

DORI	
O2DCPVS	[Bullet channel] Overview: 69 m, Outline: 34.5 m, Discern: 17.2 m, Perceive: 11 m, Characterize: 5.5 m, Validate: 2.8 m, Scrutinize: 0.9 m [PTZ channel] Wide: Overview: 103.4 m, Outline: 51.7 m, Discern: 25.9 m, Perceive: 16.6 m, Characterize: 8.3 m, Validate: 4.1 m, Scrutinize: 1.4 m Tele: Overview: 4344.8 m, Outline: 2172.4 m, Discern: 1086.2 m, Perceive: 695.2 m, Characterize: 347.6 m, Validate: 173.8 m, Scrutinize: 57.9 m The OODPCVS values are calculated using pixel densities for different use cases as recommended by the IEC/EN 62676-4: 2025 standard. IEC 62676-4:2025 describes the planning, design, installation, testing, commissioning, and maintaining of video surveillance systems (VSS) comprising image capture device(s), interconnection(s) and image handling device(s), for use in security applications within private or public spaces.
Video	
Main Stream	[Bullet channel] 50 Hz: 25 fps (2688 × 1520, 2560 × 1440 , 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440 , 1920 × 1080, 1280 × 960, 1280 × 720) [PTZ channel] 50 Hz: 50 fps (2688 × 1520 , 2560 × 1440 , 1920 × 1080 , 1280 × 960), 100 fps (1280 × 720) 60 Hz: 60 fps (2688 × 1520 , 2560 × 1440 , 1920 × 1080 , 1280 × 960), 120 fps (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] 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), [PTZ channel] 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, 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 64 Kbps (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	
Protocols	DHCP,RTP,SMTP,DNS,WebSocket,ICMP,HTTPS,RTSP,QoS,SSL/TLS,RTCP,PPPoE,NTP,IGMP,UDP,FTP,WebSockets,SNMP,HTTP,DDNS,IPv4,UPnP,SFTP,TCP/IP,802.1X,IPv6
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)
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+
AI Open Platform	
Model Specification	Model type for AI Open Platform trained algorithm loading: high-performance model (small model), enhanced high-performance model (hybrid small-large model), and ultra-high-precision model (large model). ⁴ 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.
Event Type	Region target exception status detection, region target number counting, area overlap ratio counting, area overlap ratio exception detection, area status change detection, line crossing target detection, line crossing target counting, OCR trigger, 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] 150 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	
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 (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω $\pm$ 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
Event	
Basic Event	[PTZ channel & bullet channel] alarm input and output, exception, [PTZ channel] video tampering alarm
Smart Event	unattended baggage detection, object removal detection, people gathering detection, fast moving detection, parking detection, loitering detection, Line crossing detection, intrusion detection, region entrance detection, region exiting detection, audio exception detection
Linkage	[PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, and PTZ actions (such as preset, patrol scan, pattern scan), [Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and trigger recording
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	[PTZ channel] Supports simultaneous detection and capture of human body, face and vehicle
Face Capture	Detects up to 30 faces simultaneously, 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, Recognizes face identity via face modeling, grading and comparing to those in face library

Road Traffic and Vehicle Detection	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: 4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions Accuracy (Under recommended installation and lighting conditions): License plate recognition rate $\geq 98\%$ Capture rate $\geq 99\%$ Driving direction accuracy rate $\geq 98\%$ 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, [PTZ channel]: no, [Panoramic channel]: yes
Intelligent Transportation System	Traffic Violation Evidence Collection: • PTZ camera channels support detection of six types of violations: wrongly parking, wrong-way driving, crossing the line, lane change, motor vehicle on non-motor vehicle lane, and U-turns. • Box camera channels support detection of five types of violations: wrong-way driving, driving on the lane line, lane change, motor vehicle on non-motor vehicle lane, and U-turns. Traffic Data Collection: Supports the collection of traffic flow, lane average speed, time headway, space headway, lane time occupancy, and lane space occupancy information. Traffic Flow Road incident detection: (1) Road incident detection for highways and elevated roads: The PTZ camera supports fallen object detection, pedestrian detection, congestion detection, roadblock detection, construction detection, traffic accident detection; The box camera supports pedestrian detection, parking detection, congestion detection, roadblock detection, construction detection, traffic accident detection. (2) Road incident detection for urban roads: The PTZ camera supports congestion detection, roadblock detection, construction detection, traffic accident detection; The box camera supports parking detection, congestion detection, roadblock detection, construction detection, traffic accident detection.

Regional People Counting	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection Supports parameter settings: alarm times per exception, alarm interval, first alarm delay Supports searching real-time number of people People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading Number of people exception detection: supports 6 alarm trigger conditions, including greater than threshold A, less than threshold A, equal to threshold A, not equal to threshold A, greater than threshold A and less than threshold B, less than threshold A or greater than threshold B (threshold A should be less than threshold B) Waiting time exception detection: supports 3 alarm trigger conditions, including greater than threshold A, less than threshold A, greater than threshold A and less than threshold B (threshold A should be less than threshold B)
Linkage and Tracking	
Smart Tracking	Manual tracking, auto-tracking 3.0
Smart Linkage	Manual tracking, auto tracking, tracking takeover, linked tracking capture
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$\pm$ 20%, max. 60 W (Max. 54W, including max. 15 W for IR and max. 8 W for heater) PoE 802.3bt, type4, class8, max. 90W (Max. 60 W, including max. 15 W for IR and max. 8 W for heater)
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. 8.1 kg (17.86 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 50130-4:2011+A1:2014, EN 55032:2015+A11:2020+A1:2020, EN 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)

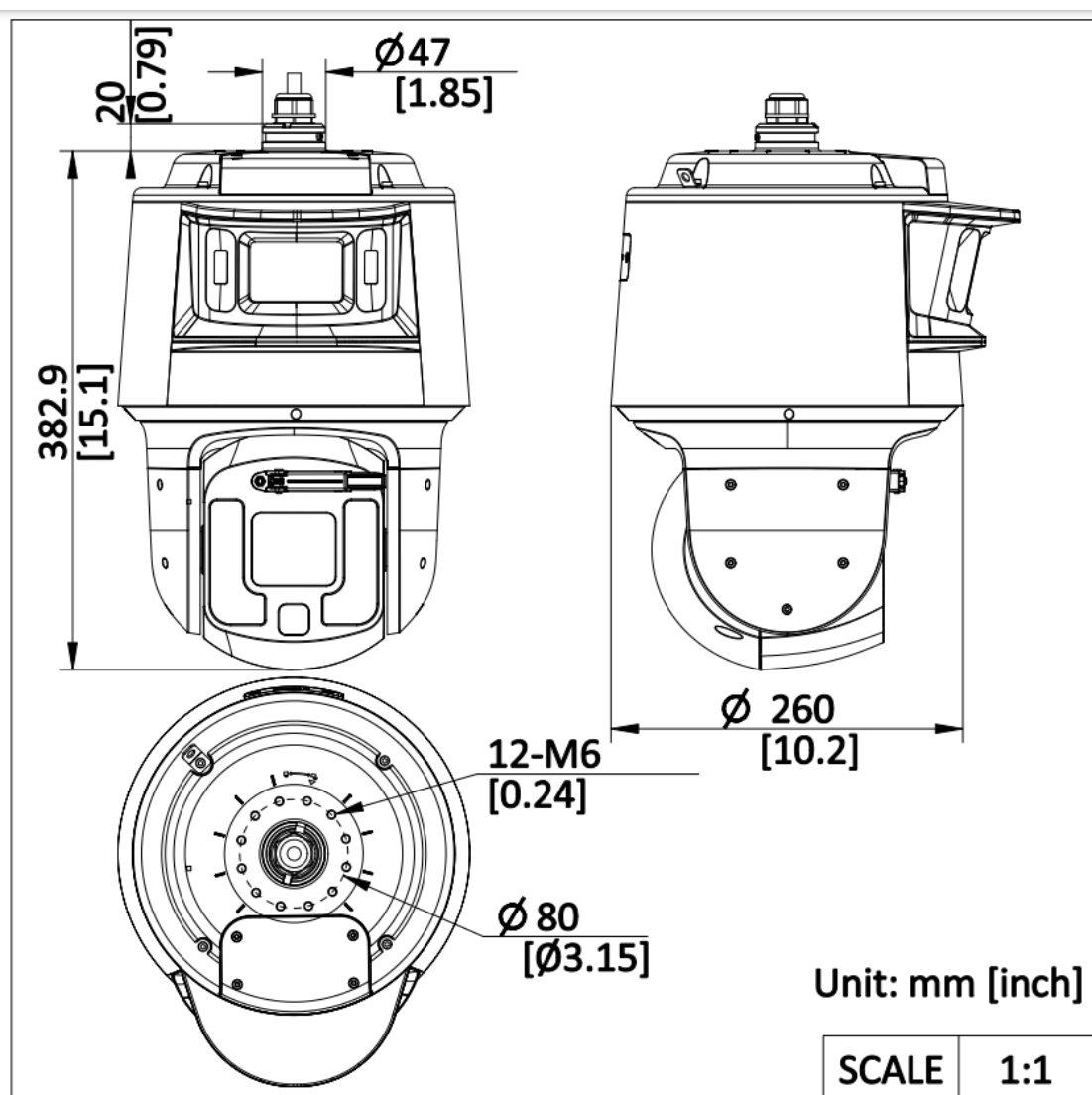
Protection	IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013), IK10 (IEC 62262:2002, excluding glass window), Lightning Protection, Surge Protection and Voltage Transient Protection, ±6kV Line to Gnd, ±3kV Line to Line
Anti-Corrosion Protection	Model with -Y: NEMA 4X (NEMA 250-2018), Model without -Y: No

▪ 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.

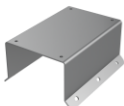
DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
[Bullet channel] Distance	55.2m	21.9m	11.0m	5.5m
[PTZ channel] Distance (Tele)	3475.9m	1379.3m	695.2m	347.6m

▪ Dimension

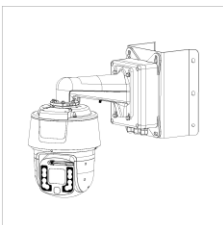
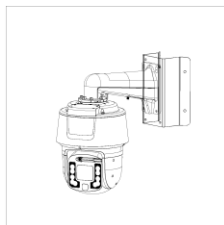
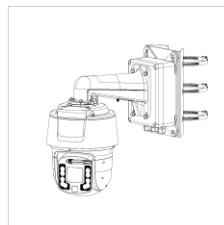


▪ Accessory

▪ Optional

DS-4660ZJ-PC	DS-4650ZJ-PC	DS-1674ZJ-P	DS-4612ZJ-PA	DS-1673ZJ-P
				
DS-1276ZJ-P	DS-1684ZJ-P	DS-4603ZJ-PA		
				

▪ Installation Methods

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

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