

### DS-2SF8C442MXG1-ELWY/14 4 MP 42 × 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.

- 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 300 m IR distance
- Supports deep learning functions
- Water and dust resistant (IP67) and vandal resistant (IK10) excluding glass window
- 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: 0.0003 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 lux with IR		
Shutter Speed	1 s to 1/30000 s		
Slow Shutter	Yes		
Day & Night	[Bullet channel] Day,Night,Schedule,Auto, [PTZ channel] Day,Night,Schedule,Auto		
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. 5.5 s		
Focus	Auto, semi-auto, manual		
Focal Length	[Bullet channel] 4 mm, [PTZ channel] 6 to 252 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: 59° 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] F1.36		
Illuminator			
Supplement Light Range	[Bullet channel] white light: up to 30 m, [PTZ channel] IR: up to 300 m		
Smart Supplement Light	Yes		
PTZ			
Movement Range (Pan)	[PTZ channel] 0° to 360°		
Movement Range (Tilt)	[Bullet channel] 12° to 24°, [PTZ channel] -20° to 90°		
Pan Speed	[PTZ channel] pan speed: configurable from 0.1° to 160°/s, preset speed: 240°/s		
TiltSpeed	[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		



[Bullet channel] 50 Hz: 25 fps (2688 × 1520, 2560 × 1440), 60 Hz: 30 fps (2688 × 1520,	
2560 × 1440)	
[PTZ channel] 50 Hz: 50 fps (2688 × 1520, 2560 × 1440), 100 fps (1920 × 1080, 1280 ×	
960, 1280 × 720), 60 Hz: 60 fps (2688 × 1520, 2560 × 1440), 120 fps (1920 × 1080, 1280	
× 960, 1280 × 720)	
*High frame rate is supported under monitoring mode only.	
[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)	
[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)	
Main stream: H.265+/H.265/H.264+/H.264,	
Sub-stream: H.265/H.264/MJPEG,	
Third stream: H.265/H.264/MJPEG	
32 Kbps to 16 Mbps	
Baseline profile, Main profile, High profile	
Main profile	
H.264 and H.265 encoding	
8 fixed regions for each stream	
G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC,MP3	
32 to 192 Kbps (MP2L2),16 to 64Kbps (AAC-LC),64 Kbps (G.711),16 Kbps (G.726),16	
Kbps (G.722.1),8-48 Kbps (PCM)	
8 kHz,16 kHz,32 kHz,48 kHz	
Yes	
ONVIF (ProfileS, ProfileG, ProfileT, ProfileM),ISUP,ISAPI,SDK,OTAP	
Password protection, complicated password, HTTPS encryption, 802.1X authentication	
(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, host authentication (MAC address), TPM 2.0	
(FIPS 140-2 level 2)	
NAS (NFS, SMB/CIFS),auto network replenishment (ANR)	
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	
Up to 20 channels	
Up to 32 users.3 user levels: administrator, operator, and user	
iVMS-4200,HikCentral Pro,Hik-Connect	
Plug-in required live view: IE8+	
Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+	



Image				
Wide Dynamic Range (WDR)	[Bullet channel] 120 dB, [PTZ channel] 150 dB			
Day/Night Switch	Day,night,auto,schedule			
Image Enhancement	HLC,3D DNR			
Defog	Optical defog			
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)			
Regional Exposure	Yes			
Regional Focus	[Bullet channel] No, [PTZ channel] Yes			
	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by			
Image Settings	client software or web browser			
Image Parameters Switch	Yes			
	[Bullet channel] No, [PTZ channel] 24 programmable polygon privacy masks; mask			
Privacy Mask	color or mosaic configurable			
SNR	≥ 52 dB			
Supplement Detection				
Satellite Positioning	No			
Gyroscope	Yes			
Compass	No			
Interface				
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB.			
Built-in Speaker	1 built-in speaker			
Ethernet Interface	1 RJ45 100M self-adaptive Ethernet port			
Alarm	7 input(s), 2 output(s)			
	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ ± 10%,			
Audio	1 output (line out), line level, output impedance: $600\Omega$			
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)			
Reset	Yes			
Event				
	[PTZ channel] video tampering alarm,[PTZ channel & bullet channel] alarminput and			
Basic Event	output, exception			
	Line crossing detection, intrusion detection, region entrance detection, region exiting			
Smart Event	detection,unattended baggage detection,object removal detection,loitering			
	detection,people gathering detection,fast moving detection,parking detection			
	[Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send			
	email, trigger alarm output, trigger recording, audible warning, white light			
Linkage	flashing,[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)			
Smart Linkage	Manual tracking, auto tracking, tracking takeover, linked tracking capture			
Deep Learning Function				
Davimatas Daatasti a	Line crossing detection, region entrance detection, intrusion detection, region exiting			
Perimeter Protection	detection			
- 0 .	Detects up to 30 faces simultaneously,			
Face Capture	Uploads face with background and closed-up face pictures			



	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	
race comparison	library,	
	Supports facelibrary encryption	
	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	
Pond Traffic and Vahicle	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	
A4 10 T	Supports simultaneous detection and capture of human body, face and vehicle,	
Multi-Target-Type Detection	Gets 7 face features, 14 human body features and 8 vehicle features	
Linkage and Tracking		
Smart 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	
Ohiost Tracking	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, i	
	triggers alarms, and tracks and captures the target. During the tracking, the target	
	location and other related information are uploaded.	
General		
Power	36V, 2.5 A, PoE(802.3 bt), 42.5 to 57 V, 1.76 A	
General Function	mirror,password protection	
0 11 0 111	-40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing),For speaker:	
Operating Condition	-30 °C to 55°C (-22°F to 131°F)	
Wiper	Yes	
Demist	Yes	
Material	ADC12	
Dimension	Ø290 mm × 453.2 mm (Ø11.42" × 17.84")	
Weight	Approx. 11.5 kg (25.35 lb.)	
	,	
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian	
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish	
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	



Approval			
EMC	CE-EMC (EN 55032:2015, EN 61000-3-2:2019, EN 61000-3-3:2013 + A1: 2019, EN		
LIVIC	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		
riotection	transient protection, IK10 (IEC 62262:2002, excluding glass window)		
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)		

#### 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.

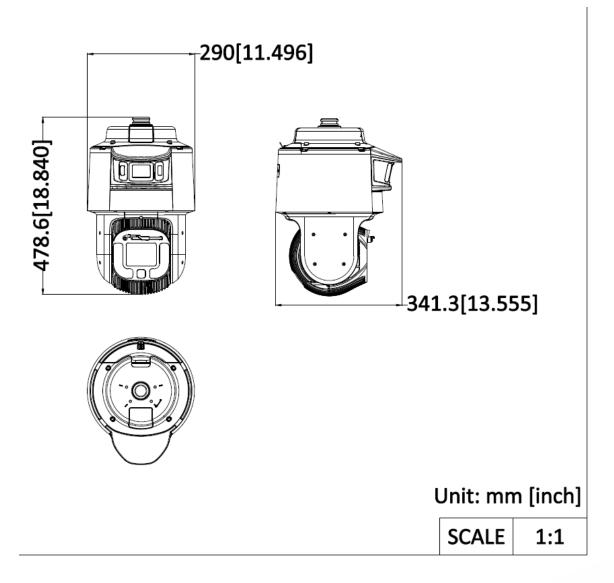
DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
[Bullet channel]	77.0m	30.5m	15.4m	7.7m
Distance	77.0111			
[PTZ channel]	3475.9m	1379.3m	695.2m	347.6m
Distance (Tele)				

#### Available Model

DS-2SF8C442MXG1-ELWY/14(F1)

#### Dimension





- Accessory
- Optional

DS-4614ZJ-PAAC PTZ Pendant Mount		

# See Far, Go Further



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