

## DS-2SF8C848MXG1-ELWY/26 8 MP 48 × TandemVu PTZ Camera















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 6 MP resolution for bullet channel, 8MP for PTZ channel
- 24/7 colorful imaging and excellent low-light performance with DarkFighter 2.0 technology
- Bullet channel tilt adjustable from 12° to 24°
- Secures an expansive area with 48 × optical zoom and 16 × digital zoom
- Expansive night view with up to 30 m white light distance and 500 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			
[Bullet channel] 1/2.5" Progressive Scan CMOS, [PTZ channel] 1/1.8" Pro			
Image Sensor	CMOS		
	[Bullet channel] Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC		
	ON), 0 Lux with light,		
Min. Illumination	[PTZ channel] Color: 0.0005 Lux @ (F1.6, AGC ON), B/W: 0.0001 Lux @ (F1.6, AGC ON),		
	0 lux with IR		
Shutter Speed	1 s to 1/30000 s		
Slow Shutter	Yes		
Day & Night	[Bullet channel] Color, [PTZ channel] IR cut filter		
Zoom	[PTZ channel] 48 × optical, 16 × digital		
Max. Resolution	[Bullet channel] 3680 × 1656, [PTZ channel] 3840 × 2160		
Lens			
	[Bullet channel] horizontal field of view: $190^{\circ} \pm 5^{\circ}$ , vertical field of view: $80^{\circ} \pm 5^{\circ}$ , [PTZ		
FOV	channel] horizontal field of view: 58.5° to 3.1°, vertical field of view: 34° to 1.7°,		
	diagonal field of view: 65.8° to 3.5°		
Focus	Auto,semi-auto,manual		
Zoom Speed	[Bullet channel] No, [PTZ channel] approx. 5.6 s		
Focal Length	[Bullet channel] 4 mm, [PTZ channel] 6.25 to 300 mm		
Aperture	[Bullet channel] F1.0, [PTZ channel] F1.6		
Illuminator			
Supplement Light Range	[Bullet channel] white light: up to 30 m, [PTZ channel] Laser: up to 500 m		
Smart Supplement Light	Yes		
PTZ			
Movement Range (Pan)	360° endless		
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	[PTZ channel] tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s,[Bullet		
Titt Speed	channel]tiltspeed configurable		
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		



Video			
	[Bullet channel] 50 Hz: 25 fps (3680 × 1656, 3632 × 1632), 60 Hz: 30 fps (3680 × 1656		
Main Stream	3632 × 1632) [PTZ channel] 50 Hz: 50 fps (3840 × 2160, 2560 × 1440), 100 fps (1920 × 1080, 1280 × 960, 1280 × 720), 60 Hz: 60 fps (3840 × 2160, 2560 × 1440), 120 fps (1920 × 1080, 1280 × 960, 1280 × 720)  *High frame rate is supported under monitoring mode only.		
Sub-Stream	[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 (1200 × 536,960x432), 60 Hz: 30 fps (1200 × 536,960x432)		
Third Stream	[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), [Bullet channel] 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		
Region of Interest (ROI)	8 fixed regions for each stream		
Audio			
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC,MP3		
Audio Bit Rate	32 to 192 Kbps (MP2L2),16 to 64Kbps (AAC-LC),16 Kbps (G.722.1),8-48 Kbps (PCM),64 Kbps (G.711),16 Kbps (G.726)		
Audio Sampling Rate	8 kHz,16 kHz,32 kHz,48 kHz		
Environment Noise Filtering	Yes		
Network			
API	ONVIF (ProfileS, ProfileG, ProfileT, ProfileM),ISUP,ISAPI,SDK,OTAP		
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		
Security	Password protection,complicated password,IP address filter,HTTPS encryption,802.1 authentication (EAP-TLS, EAP-LEAP, EAP-MD5),host authentication (MAC address),watermark,TPM 2.0 (FIPS 140-2 level 2)		
Client	iVMS-4200,HikCentral Pro,Hik-Connect		
	Plug-in required live view: IE8+		
Web Browser	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)	[Bullet channel] 120 dB, [PTZ channel] 140 dB		
Day/Night Switch	Day,night,auto,schedule		



Image Enhancement	HLC,3D DNR		
Privacy Mask	[Bullet channel] 8 programmable polygon privacy masks, [PTZ channel] 24		
FIIVacy Iviask	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	[Bullet channel] No, [PTZ channel] Yes		
luan an Cattinana	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by		
Image Settings	clientsoftware or web browser		
Image Parameters Switch	Yes		
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)		
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ ± 10%,		
Auuro	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			
Basic Event	[PTZ channel & Bullet channel] alarminput and output, exception,[PTZ channel] vide tampering alarm		
	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 flashing,		
Linkage	[PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email		
	trigger alarmoutput, trigger recording, and PTZ actions (such as preset, patrol scan,		
	pattern scan)		
Deep Learning Function			
Face Capture	Detects up to 30 faces simultaneously,		
race cupture	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		
Face 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
	LPR Countries/Regions:
Road Traffic and Vehicle	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions
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
Multi-Target-Type Detection	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
Perimeter Protection	Line crossing detection, region entrance detection, intrusion detection, region exiting
reinneter Frotection	detection
Linkage and Tracking	
Smart Tracking	Manual tracking, auto-tracking 3.0
Smart Linkage	Manual tracking, auto tracking, tracking takeover, linked tracking capture
	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
Object Tracking	tracking, the target location and other related information are uploaded. Support
	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	25 175 25% 25% 20 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
	36 VDC± 25%, max. 90 W (Max. 62 W, including max. 15 W for IR and max. 8 W for
Power	heater)
	PoE 802.3bt, type4, class8, max. 90W (Max. 62 W, including max. 15 W for IR and max. 8 W for heater)
General Function	·
General Function	mirror,password protection  -40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing),For speaker:
Operating Condition	-40 C to 70 C (-40 F to 158 F). Humidity 95% of less (non-condensing), For speaker:
operating containini	20 °C +0 EE°C / 22°C +0 121°C)
·	-30 °C to 55°C (-22°F to 131°F)
Wiper	Yes
Wiper Demist	Yes Yes
Wiper Demist Material	Yes Yes ADC12
Wiper Demist Material Dimension	Yes Yes ADC12 Ø290 mm × 453.2 mm (Ø11.42" × 17.84")
Wiper Demist Material	Yes Yes ADC12 Ø290 mm × 453.2 mm (Ø11.42" × 17.84") Approx. 10.5 kg ( 23.15 lb.)
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Wiper Demist Material Dimension	Yes Yes ADC12 Ø290 mm × 453.2 mm (Ø11.42" × 17.84") Approx. 10.5 kg ( 23.15 lb.)



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	
Protection	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.

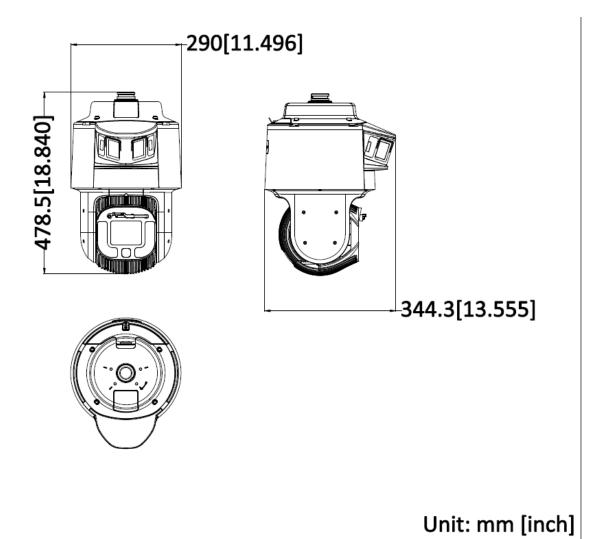
DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
[Bullet channel]	77.0m	30.5m	15.4m	7.7m
Distance				
[PTZ channel]	2965.5m	1176.8m	593.1m	296.6m
Distance (Tele)	2905.5111			

### Available Model

DS-2SF8C848MXG1-ELWY/26(F0)

#### Dimension





- Accessory
- Optional

DS-4614ZJ-PAAC	DS-4604ZJ-PAAC
PTZ Pendant Mount	Wall mount

SCALE

1:1

# See Far, Go Further



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