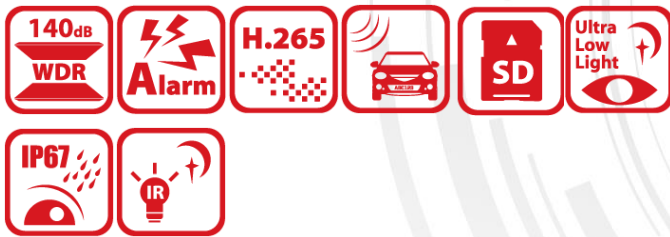


iDS-2VS435-F840-EY(T5) 4 MP 40 × Network IR Traffic PTZ Camera



Hikvision iDS-2VS435-F840-EY(T5) 4MP 40× Network IR Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 40 × optical zoom lens, the camera offers more details over expansive areas. The network IR traffic PTZ camera features complete traffic violation enforcement functions. Detection, capturing, storage and transmission of traffic violation events are supported.

- High quality imaging with 4 MP resolution
- Excellent low-light performance with DarkFighter technology
- 40 × optical zoom, 16 × digital zoom
- 140 dB WDR, 3D DNR, HLC, BLC, EIS, defog
- 400 m IR distance
- Efficient H.265+/H.265 compression technology
- Multiple violations supported: illegal parking detection, reverse driving detection, over lane line detection, illegal lane change detection, vehicle on non-motor vehicle lane, U-turning detection
- Water and dust resistant (IP67)
- The illegal parking detection distance is 300 m in multi-scene patrol.



▪ 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
Distance (Tele)	2965.5 m (9729.3 ft.)	1176.8 m (3860.9 ft.)	604.1 m (1982.0 ft.)	302.1 m (991.1 ft.)

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0.0005 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1/1 s to 1/30000 s
Day & Night	IR cut filter
Zoom	40 × optical, 16 × digital
Slow Shutter	Yes
Lens	
Focal Length	6 to 240 mm
FOV	Horizontal field of view: 56.6° to 1.8°, vertical field of view: 33.7° to 1.0°, diagonal field of view: 63.4° to 2.0°
Focus	Auto, semi-auto, manual
Aperture	Max. F1.2
Zoom Speed	Approx. 5.4 s
Illuminator	
Supplement Light Type	IR
Supplement Light Range	IR distance: up to 400 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	-20° to 90°, auto flip
Pan Speed	Pan speed: configurable from 0.1° to 210°/s, preset speed: 280°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s
Proportional Pan	Yes
Presets	300
Preset Freezing	Yes
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, dome reboot, dome adjust, aux output, panorama scan

Power-off Memory	Yes
Video	
Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	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, G.722.1, G.726, MP2L2, PCM, AAC-LC
Audio Bit Rate	64 Kbps (G.711), 16 Kbps (G.722.1), 16 Kbps (G.726), 32 to 192 Kbps (MP2L2), 16 to 64Kbps (AAC-LC)
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
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)
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Client	iVMS-4200, HikCentral Pro, Hik-Connect
Web Browser	Safari11+, Chrome57+, Firefox52+, IE11
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Day/Night Switch	Day, night, auto, schedule
Wide Dynamic Range (WDR)	140 dB
SNR	≥ 52 dB
Defog	Optical defog, Digital defog
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable

Regional Focus	Yes
Regional Exposure	Yes
Supplement Detection	
Satellite Positioning	No
Gyroscope	Yes
Compass	No
Interface	
Video Output	CVBS: 1.0 V[p-p]/75 Ω, PAL/NTSC, BNC connector
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB
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
Alarm	7 input(s), 2 output(s)
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset	Yes
Event	
Basic Event	Motion detection, video tampering alarm, exception, alarm input and output
Alarm Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, and PTZ actions (such as preset, patrol scan, pattern scan)
Road Traffic and Vehicle Detection	
Illegal Parking	Illegal parking detection, reverse driving detection, over lane line detection, illegal lane change detection, vehicle on non-motor vehicle lane, U-turning detection
General	
Power	36 VDC ± 25%, max. 62 W
Dimension	Ø266.6 mm × 410 mm (Ø10.50" × 16.14")
Weight	Approx. 8 kg (17.64 lb.)
Material	ADC12
Operating Condition	-40 °C to 70 °C (-40 °F to 158 °F). Humidity 95% or less (non-condensing)
Vandal-proof Alarm	Yes
Heater	Yes
Wiper	Yes
De-icing	No
Demist	No
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	FCC (47 CFR Part 15, Subpart B), CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014), KC (KN 32: 2015, KN 35: 2015), RCM (AS/NZS CISPR 32: 2015), IC (ICES-003: Issue 7)
Safety	UL (UL 62368-1), CB (IEC 62368-1: 2014 + A11), CE-LVD (EN 62368-1: 2014/A11: 2017), BIS (IS 13252 (Part 1): 2010/IEC 60950-1: 2005), LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU), WEEE (2012/19/EU), Reach (Regulation (EC) No 1907/2006)

Protection

IP67 (IEC 60529-2013), IK10 (IEC 62262:2002), TVS 6K V lightning protection, surge protection and voltage transient protection

▪ Available Model

iDS-2VS435-F840-EY(T5)

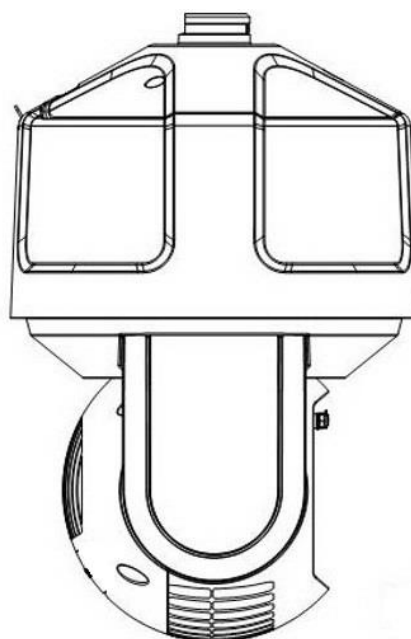
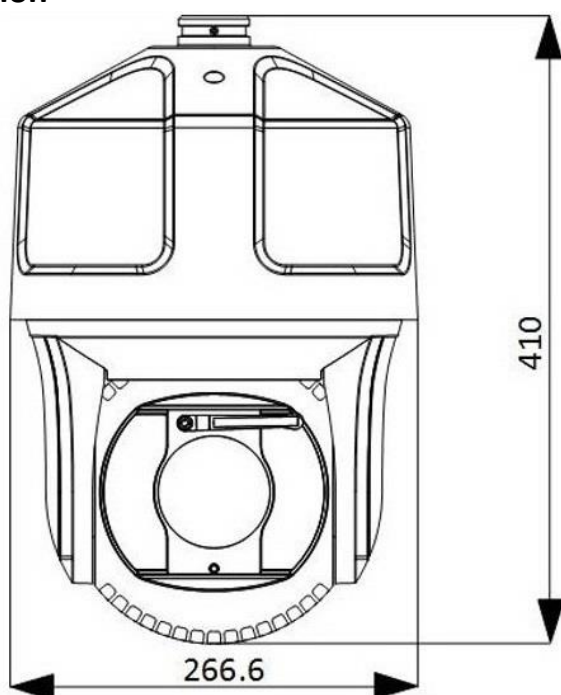
▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has MODERATE PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ Dimension



Unit:mm

▪ **Accessory**

▪ **Included**

DS-1681ZJ	DS-1681ZJ-2
	

▪ **Optional**

DS-1604ZJ-BOX- Corner-Y	DS-1604ZJ-BOX- Y
	

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