

iDS-2VS435-F836-EY

4 MP 36× Network IR Traffic PTZ Camera

**DarkFighter**



Hikvision iDS-2VS435-F836-EY 4 MP 36× Network IR Traffic PTZ Camera is able to capture high quality colored images in dim light environment. With the 36× 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.

This series of PTZ camera is applied to perform multiple traffic violation detections.

- Up to 2560 × 1440 resolution
- Min. illumination  
Color: 0.002 Lux @(F1.5, AGC ON)  
B/W: 0.0002 Lux @(F1.5, AGC ON)  
0 Lux with IR
- 36 × optical zoom, 16 × digital zoom
- 120dB WDR, 3D DNR, HLC, BLC, EIS, defog
- Up to 200 m IR distance, Smart IR
- H.265+/H.265 video compression
- 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
- IP67
- Anti-corrosion: NEMA 4X



## Specifications

Camera Module	
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.002 Lux @(F1.5, AGC ON); B/W: 0.0002 Lux @(F1.5, AGC ON); 0 Lux with IR
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp
Gain	Auto/Manual
Shutter Time	1 to 1/30,000 s
Day & Night	IR Cut Filter
Digital Zoom	16 ×
Privacy Mask	24 programmable privacy masks, mask color configurable
Focus Mode	Auto/Semi-automatic/Manual
WDR	120 dB WDR
Lens	
Focal Length	5.7 to 205.2 mm, 36 × optical zoom
Zoom Speed	Approx. 4.4 s (optical lens, wide-tele)
Field of View	Horizontal field of view: 59.8° to 2.0° (wide-tele) Vertical field of view: 33.6° to 1.1° (wide-tele) Diagonal field of view: 68.6° to 2.3° (wide-tele)
Working Distance	10 to 1500 mm (wide-tele)
Aperture Range	F1.5 to F4.5
Illuminator	
IR Distance	Up to 200 m
Smart IR	Yes
PTZ	
Movement Range (Pan)	360°, endless
Pan Speed	Configurable, from 0.1°/s to 210°/s. Preset speed: 280°/s
Movement Range (Tilt)	-20° to 90°, autoflip
Tilt Speed	Configurable, from 0.1°/s to 150°/s. Preset speed: 250°/s
Proportional Zoom	Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern	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 Position Display	ON/OFF
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

<b>Compression Standard</b>	
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
H.264 Type	Baseline profile/main profile/high profile
H.264+	Yes
H.265 Type	Main profile
H.265+	Yes
Video Bitrate	32 Kbps to 16384 Kbps
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
Audio Bitrate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)
SVC	Yes
<b>Smart Features</b>	
Basic Event	Motion detection, video tampering detection, alarm input, alarm output, exception (HDD full, HDD error, illegal login, network disconnected, IP address conflict)
Smart Event	Audio exception detection
Traffic Violation Detection	Illegal parking detection, reverse driving detection, over lane line detection, illegal lane change detection, vehicle on non-motor vehicle lane, U-turning detection
Alarm Linkage	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.
Smart Record	ANR (Automatic Network Replenishment)
Region of Interest	Main stream, sub-stream, and third stream respectively support 8 fixed areas.
<b>Image</b>	
Max. Resolution	2560 × 1440
Main Stream	50Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Image Enhancement	BLC, HLC, defog, 3D DNR, EIS, regional exposure, regional focus
<b>Network</b>	
Network Storage	Built-in memory card slot, support microSD/SDHC/SDXC, up to 256 GB; NAS (NFS, SMB/ CIFS), ANR
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour
API	Onvif (profile S, profile G), SDK, ISAPI
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels, administrator, operator and user
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering
Terminal Server	iDS-TP50-12DT(4T)
Web Browser	IE8+, Chrome 31-44, Firefox 30-51, Safari 8.0-11

Interface	
Audio	1-ch audio input, 2.0 to 2.4Vp-p, 1k Ohm $\pm$ 10% 1-ch audio output , line level, impedance: 600 $\Omega$
Alarm	7-ch alarm input/2-ch alarm output
Network Interface	1 RJ45 10 M/100 M Ethernet interface
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
Video Out	1.0 V [p-p]/75 $\Omega$ , NTSC (or PAL) composite, BNC connector
General	
Power	24 VAC, max. 60 W, including max. 18 W for IR and max. 6 W for heater Hi-PoE, max. 50 W, including max. 18 W for IR and max. 6 W for heater
Working Environment	Temperature: -40°C to 70°C (-40°F to 158°F), humidity: $\leq$ 95%
Protection Level	IP67, NEMA 4X anti-corrosion
Material	ADC12
Dimension	$\Phi$ 267 mm $\times$ 410 mm ( $\Phi$ 10.51" $\times$ 16.14")
Weight	Approx. 8 kg (17.64 lb.)

## DORI

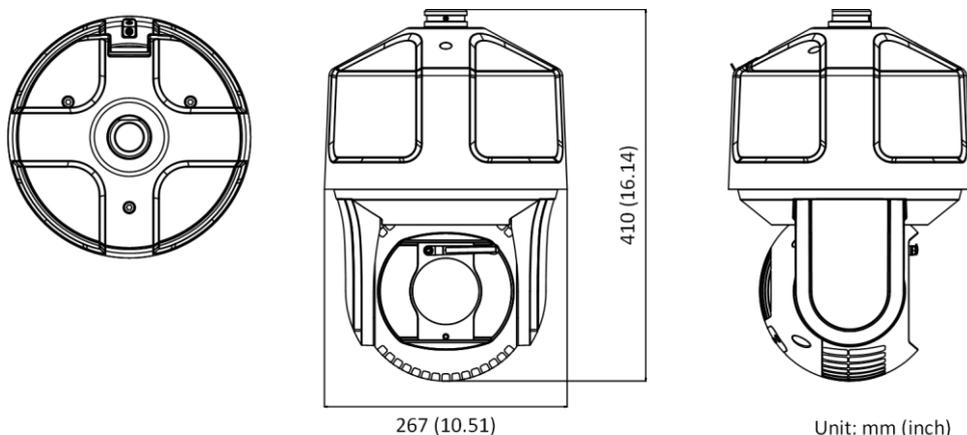
The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2786.2 m (9141.1 ft)	1105.6 m (3627.4 ft)	557.2 m (1828.2 ft)	278.6 m (914.1 ft)

## Available Models

iDS-2VS435-F836-EY

## Dimension



## Accessory

### Included



DS-1681ZJ  
Installation Adapter

### Optional



DS-1602ZJ-AKS  
Wall Mount



DS-1602ZJ-BOX-Y  
Wall Mount with Junction  
Box



DS-1604ZJ-BOX-Y  
Wall Mount with Junction  
Box



DS-1604ZJ-BOX-Corner-Y  
Corner Mount with  
Junction Box



DS-1662ZJ-AC  
Pendant Mount



TEAC-66-243000V (EU)  
MKAC-66-243000U (USA)  
TEAC-66-243000VB (UK)  
Power adapter



LAS60-57CN-RJ45  
Hi-PoE Midspan

Distributed by

**HIKVISION®****Headquarters**

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 (216)521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
sateru@hikvision.com

**Hikvision Korea**  
T +82-(0)31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com