iDS-TCS817-CR
Bi-Spectrum Traffic Incident Detection Camera
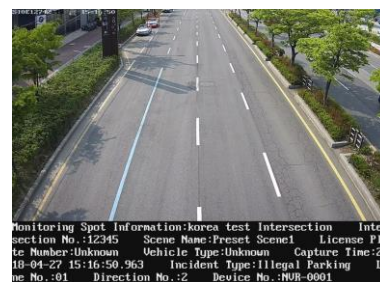
H.265 **3D DNR** **IR** **car**

Deepin View

- 8 MP (1/1.2" CMOS), 3840 × 2160 @ 25 fps
- Color: 0.001 Lux@(F1.4, AGC ON)
- H.265, H.264, MJPEG
- 60 dB SNR
- 3D DNR

- Built-in thermal and visual imaging
- Traffic flow detection
- Incident detection
- Alarm I/O
- Two defined streams
- Built-in micro SD/TF card, up to 128 GB
- IP65
- Supports side mounting with convenient installation and debug

Superiority

- Traffic flow data collection
    - Lane flow
    - Lane speed
    - Space headway
    - Time headway
    - Lane time occupancy rate
    - Lane space occupancy rate
    - Queuing length
    - Traffic status
- Capable of detecting multiple incidents
    - Driving on the lane line detection
    - Lane change detection
    - Wrong-way driving detection
    - Stopped vehicle detection
    - Emergency lane occupation
    - Roadblock detection
    - Construction detection
    - Fallen Object detection
    - Pedestrians detection
    - Congestion detection
    - Fire/Smoke in tunnel detection
    - Rapid deceleration, speeding, low-speed driving

Application

- Traffic flow control
- Traffic monitoring
- Traffic incident detection

Scenarios

- Highway
- Tunnel
- Toll station
- Urban road

Stopped Vehicle

Pedestrian

Roadblock

Wrong-Way Driving

Specification

Visible Camera	iDS-TCS817-CR
Image Sensor	8 MP (1/1.2'' CMOS)
Min. Illumination	Color: 0.001 Lux@(F1.4, AGC ON) , 0.0005 Lux with IR
Shutter Speed	50 to 20,000 us
Day & Night	IR cut filter
Digital Noise Reduction	2D/3D DNR
WDR	60 dB
Lens	
Focal Length	15 to 50 mm or 5.7-21 mm (Optional)
Aperture	1550: F1.4-C 5721: F1.5-C
Focus	Manual
FOV	1550: CS-Mount, Horizontal: 42.7° to 13.7°, Vertical: 23.4° to 7.6°, Diagonal： 49.7 to 15.8° 5721: CS-Mount, Horizontal: 106.5° to 33.1°, Vertical: 60.2° to 18.7°, Diagonal: 121.4° to 37.8°
Thermal Imaging	
Max Image Dimension	640 × 512
Focal Length	25 mm (default), Optional: 10 mm, 15 mm, 50 mm
Measuring Range	0 °C ~ 550 °C
Measuring Distance	25 m
FOV	10 mm：F:1.0, Horizontal: 72.0°, Vertical: 56.1°, Diagonal: 97.4° 15 mm：F:1.0, Horizontal: 42.4°, Vertical: 33.6°, Diagonal: 55.2° 25 mm (default)：F:1.0, Horizontal: 24.6°, Vertical: 18.5°, Diagonal: 31.3° 50 mm：F:1.0, Horizontal: 12.3°, Vertical: 9.8°, Diagonal: 15.6°
Radar	
Central Frequency	77 GHz
Antenna Beam Width	35° × 16°
Measurement Accuracy	±2 km/h
Trigger Consistency	≤ ± 1 m
Velocity Range	2 to 200 km/h
Double Trigger	Approaching direction, leaving direction, and both
Multiple Lanes	Up to 3 lanes
Tracking Target	Up to 128
Compression Standard	
Video Compression	Main stream: H.265/H.264/MJPEG Sub-stream: H.265/H.264/MJPEG
H.264 Type	Baseline profile/Main profile/High profile
H.265 Type	Baseline profile/Main profile/High profile
Video Bit Rate	32 Kbps to 16 Mbps
Smart Feature	

Coverage	Up to 3 lanes
Trigger Mode	Video trigger
Supplement Light Type	External strobe/flash/continuous light
Smart Function	Vehicle type, lane flow, lane speed, space headway, time headway, lane time occupancy rate, lane space occupancy rate, queuing length, and traffic status Driving on the lane line, lane change, wrong-way driving, stopped vehicle, Emergency lane occupation, roadblock, construction, fallen object, pedestrians, congestion, fire/smoke in tunnel detection, rapid deceleration, speeding, low-speed driving
Image	
Max. Resolution	3840 × 2160
Main Stream	50 Hz: 25 fps (3840 × 2160, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 1920 × 1080, 1280 × 720)
Sub-Stream	1920 × 1080, 704 × 576
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser.
SVC	H.264 and H.265 encoding
Day/Night Switch	Auto/Scheduled/Triggered by alarm in
Picture Overlay	Logo picture can be overlaid on video with 128 × 128 24-bit bmp format.
Network	
Network Storage	Micro SD/TF card (128 GB), local storage and CVR, NVR, ANR
Alarm Trigger	HDD error, network disconnected, IP address conflicted, vehicle detector exception, traffic light detector exception
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Security Measures	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS
General Function	One-key reset, three streams, heartbeat, password protection, watermark
API	ISAPI, SDK
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	HikCentral Master, HikCentral Master Lite
Web Browser	IE7+
Interface	
Communication Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1 RS-485 interface (half duplex, HIKVISION)
Alarm	6 output interfaces
On-board storage	Built-in micro SD/TF card, up to 128 GB
GPS	Optional
Temperature Sensor	Optional
General	
Operating System	Linux
Operating Conditions	Temperature: -30 °C to 70 °C (-22 °F to 158 °F) Humidity: 95% or less (non-condensing)
Power Supply	100 to 240 VAC (with power adapter, by default) 36 VDC ± 20% (without power adapter)
Protection Level	IP65
Heater	Supported

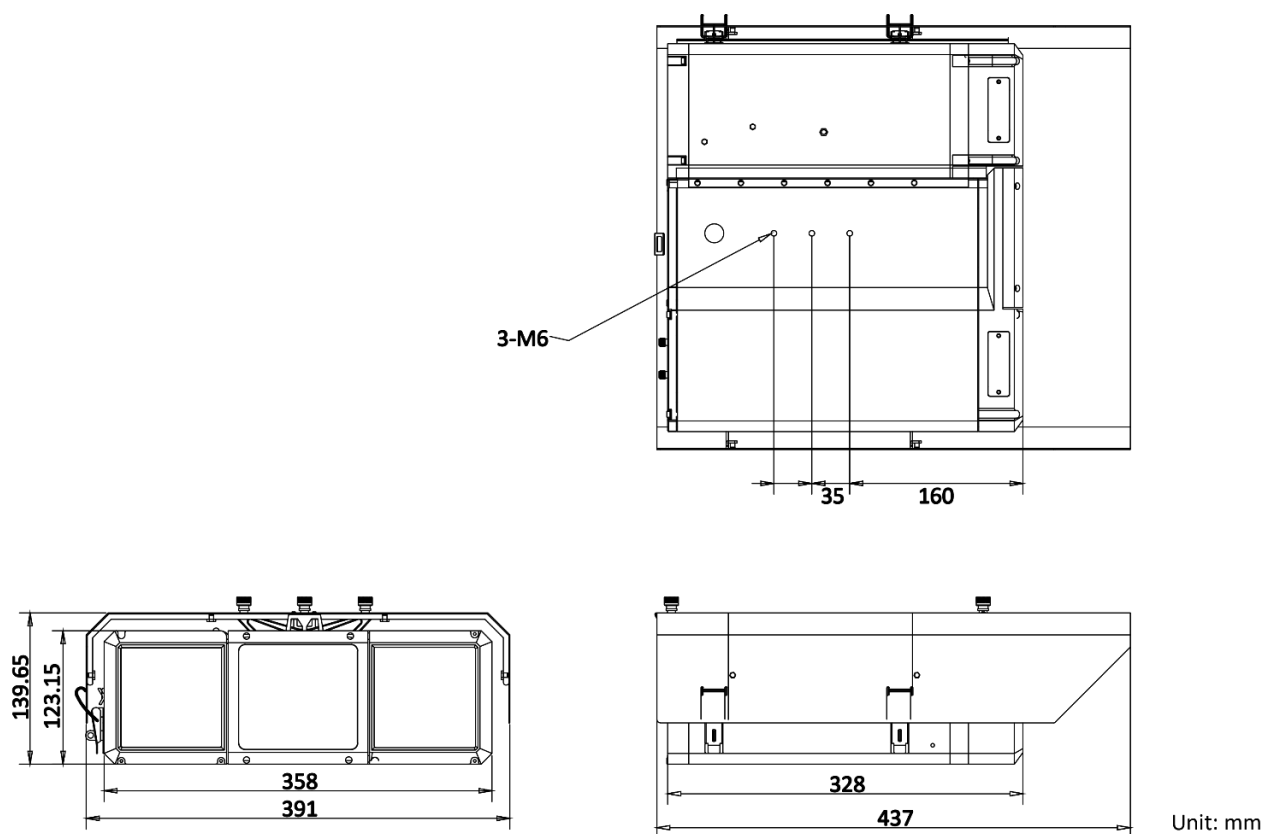| Material	Aluminum alloy
Dimensions	437 × 391 × 139.65 mm (17.2 × 15.39 × 5.50 inch)
Weight	Approx. 7.2 ± 0.5 kg (15.9 ± 1.1 lb.)
Power Consumption	< 70 W

Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.
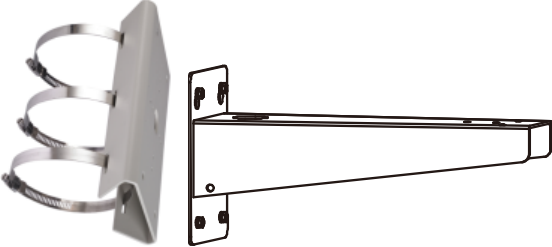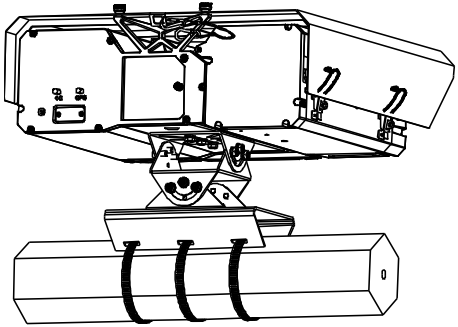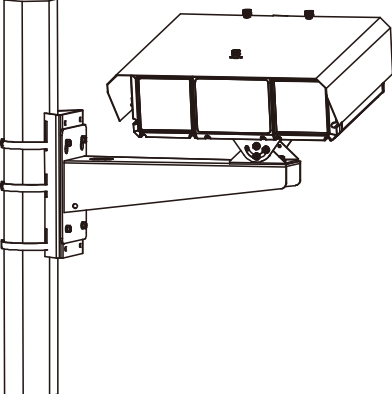
Available Model

iDS-TCS817-CR/1550

Please decide whether to use anti-corrosion devices or matched hoops and brackets according to the actual working environment.

Dimension

Unit: mm

Accessory

DS-1278ZJ-HWB	DS-1275ZJ/HWB, DS-1701ZJ
Horizontal Pole Mount	**Vertical Pole Mount**

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