

iDS-TCE507-BR 5 MP ANPR Intersection Violation Capture Unit



- All-in-one design, integrating camera, radar and supplement light
- High quality imaging with 5 MP resolution (2/3" GMOS)
- Excellent low-light performance, Color: 0.001 Lux@(F1.4, AGC ON)
- Support speed detection with built-in 24 GHz radar
- Support license plate recognition (LPR)
- Support vehicle feature recognition: vehicle type / color / manufacturer / license plate color recognition, no-plate vehicle capture
- Violation behaviors detection: running the red light, speeding, driving on lane line, illegal lane change, wrong-way driving detection, etc.
- Supports side mounting with convenient installation and debug

▪ Specification

| Camera | |
|---------------------------------|--|
| Image Sensor | 5 MP (2/3" GMOS)5 |
| Max. Resolution | 2464 × 2056 |
| Min. Illumination | Color: 0.001 Lux@(F1.4, AGC ON) |
| Shutter Time | 50 us-20000 us |
| Day & Night | 24/7 color imaging |
| Lens | |
| Lens Type | Varifocal lens, motorized lens, 11 to 40 mm |
| Focal Length & FOV | 11 to 40 mm, horizontal FOV 36.7° to 13.9°, vertical FOV 30.7° to 11.6°, diagonal FOV 48.0° to 18.2° |
| Focus | Auto |
| Aperture | F1.6 |
| Illuminator | |
| Built-in Supplement Light Type | White light |
| Light Bead | 16 |
| Built-in Supplement Light Range | Up to 40 m |
| External Supplement Light | Strobe and flash light |
| Radar | |
| Working Frequency | 24.05 to 24.25 GHz |
| Modulation Waveform | FMCW |
| Antenna Beam Width | 35° × 16° |
| Detection Distance | 40 m |
| Speed Measuring Range | 10 to 320 km/h |
| Max. Detectable Targets | up to 32 |
| Speed Measuring Accuracy | ± 2 km/h |
| Trigger Consistency | ≤ ± 1 m |
| Coverage Lanes | Up to 2 lane(s) |
| Capture Rate | ≥ 95% |
| Trigger Mode | Approaching direction, Leaving direction, Bidirection |
| Video | |
| Main Stream | 50 Hz: 50 fps (2464 × 2056, 2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576) 60 Hz: 30 fps (2464 × 2056, 2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576) |
| Sub-Stream | 50 Hz: 50 fps (2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576) 60 Hz: 30 fps (2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576) |
| Third Stream | 50 Hz: 50 fps (2048 × 1536, 1280 × 720, 704 × 576) 60 Hz: 30 fps (2048 × 1536, 1280 × 720, 704 × 576) |
| Video Compression | Main stream: H.265/H.264/MJPEG 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 |

| Network | |
|---|--|
| Protocols | TCP/IP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, IPv4, IPv6, UDP, SNMP, 802.1X, QoS |
| Simultaneous Live View | Up to 6 channels |
| API | ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP, OTAP |
| User/Host | Up to 32 users 3 user levels: administrator, operator and user |
| Security | Password protection, Complicated password, HTTPS encryption, 802.1X authentication (EAP-PEAP, EAP-LEAP, EAP-MD5), Basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, Control timeout settings |
| Network Storage | MicroSD/TF card (512 GB), local storage and CVR, NVR, ANR |
| Client | iVMS-4200 (Only for live view and LPR information search), Hik-Central Master, Hik-Central Pro, HikCentral Master Lite |
| Web Browser | Chrome V61+, IE9 - IE11, Firefox V40+, Edge, plug-in free live view supported |
| Image | |
| Image Settings | Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser. |
| Day/Night Switch | Auto/Scheduled/Triggered by alarm in |
| SNR | 60 dB |
| Image Enhancement | BLC, HLC, 3D DNR |
| Picture Overlay | LOGO picture can be overlaid on video with 128 × 128 24-bit bmp format. |
| Supplement Detection (Satellite Positioning) | |
| Satellite Positioning | Optional |
| Interface | |
| Ethernet Interface | 1 RJ45 10M/100M/1000M self-adaptive Ethernet interface |
| On-board Storage | Built-in memory card slot, support microSD/SDHC/SDXC card, up to 512 GB |
| Temperature Sensor | Optional |
| Alarm | 6 output interfaces |
| RS-485 | 1 RS-485 interface |
| Event | |
| Basic Event | HDD Error, network disconnected, IP address conflicted, vehicle detector exception, traffic light detector exception |
| Road Traffic and Vehicle Detection | |
| Coverage | Up to 2 lanes |
| Trigger Mode | External I/O trigger/Radar trigger/Video trigger |
| Smart Function | License plate recognition, Vehicle type classification, Vehicle color recognition, No-plate vehicle capture, Moving direction detection |

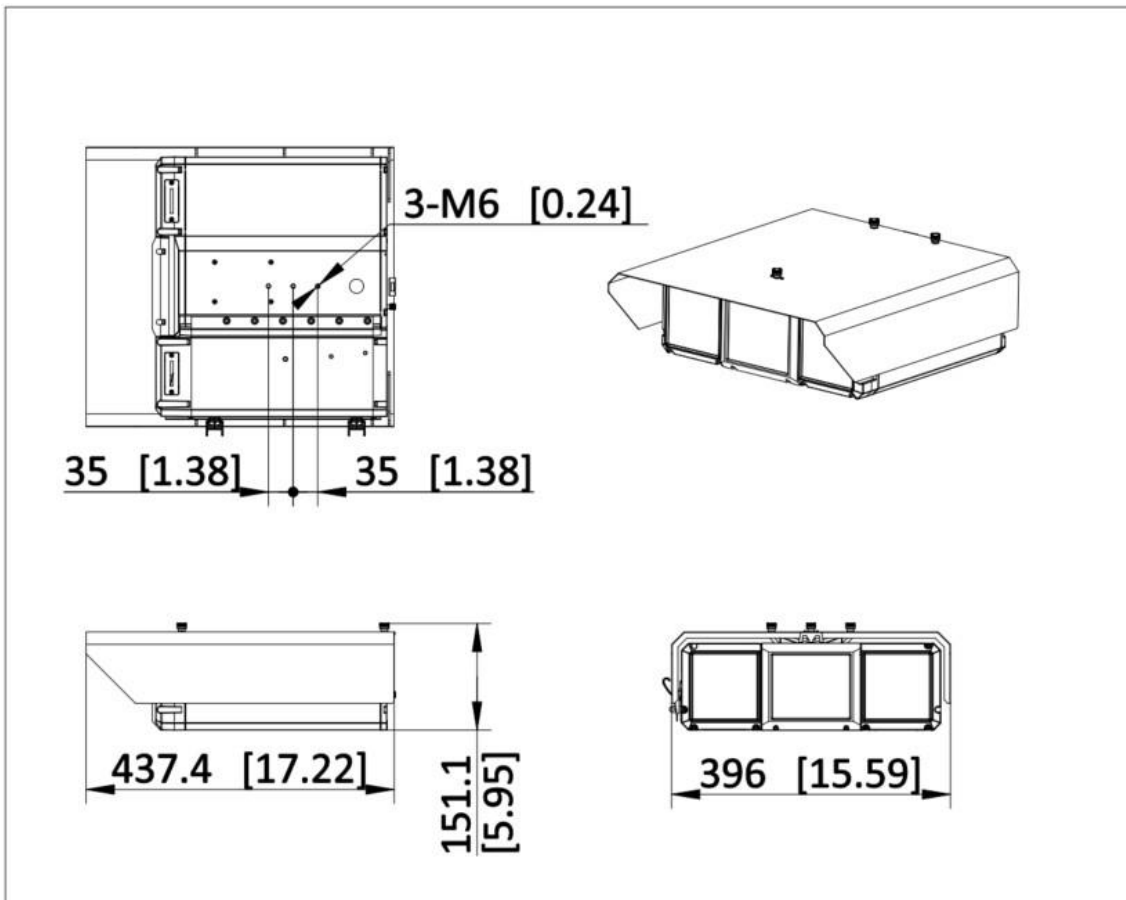
| | |
|---|--|
| LPR Countries/Regions | <p>Middle East: The United Arab Emirates (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain), Qatar, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Pakistan, Oman, Lebanon, Bahrain</p> <p>Africa: Nigeria, Kenya, Ivory Coast, South Africa, Tanzania, Mauritius, Morocco, Tunisia, Sierra Leone, Zambia, Ghana, Zimbabwe, Uganda, Angola, Ethiopia, Senegal, Algeria</p> <p>Asia-Pacific: Australia, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Myanmar, India, Mongolia, Cambodia, Laos, Bangladesh, Nepal, Sri Lanka</p> <p>America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia, Brazil, Ecuador, Peru, Mexico, Panama, Costa Rica, Trinidad and Tobago, the Dominican Republic, Guatemala</p> <p>Europe: Turkey, Croatia, Slovakia, Czech Republic, Bulgaria, the Republic of North Macedonia, Hungary, Greece, Poland, France, Netherlands, Switzerland, Spain, the UK, Ireland, Germany, Italy, Austria, Israel, Palestinian, Belgium, Luxembourg, Albania, Kosovo, Serbia, Romania, Montenegro, Denmark, Finland, Sweden, Slovenia, Portugal, Malta, Cyprus, Iceland, Liechtenstein, Bosnia and Herzegovina</p> <p>Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia, Turkmenistan, Tajikistan</p> |
| Accuracy (Under recommended installation and lighting conditions) | <p>Capture rate > 99%, Vehicle moving direction recognition accuracy > 98.5%, LPR accuracy > 98%, Mistaken capture rate < 2%</p> |
| No License Plate Detection | Supported |
| Motorcycle LPR | Supported |
| Vehicle Type | Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle |
| Vehicle Color | Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black |
| Vehicle Manufacturer | <p>84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu,</p> <p>Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FORO</p> |
| License Plate Color Recognition | Customized to support |
| Driving on Lane Line Detection | Supported (only strobe light mode) |
| Lane Change Detection | Supported (only strobe light mode) |
| Wrong-way Driving Detection | Supported |

| | |
|---------------------------|--|
| Emergency Lane Occupation | Supported (truck forbidden lane, emergency lane, urban bus lane) |
| Capture Speed Range | 10 to 320 km/h |
| General | |
| Operating System | Linux |
| Power | DC 36 V \pm 20%, 2 A, max. 70 W, two-core terminal block |
| Material | Aluminum alloy |
| Dimension | 369.0 mm \times 437.4 mm \times 151.1 mm (15.59" \times 17.22" \times 5.95") (L \times W \times H) |
| Package Dimension | 535 mm \times 500 mm \times 390 mm (21.06" \times 19.68" \times 15.35") (L \times W \times H) |
| Weight | Approx. 8.00 kg (17.6 lb.) |
| With Package Weight | Approx. 13.7 kg (30.2 lb.) |
| Operating Condition | -30 $^{\circ}$ C to 70 $^{\circ}$ C (-22 $^{\circ}$ F to 158 $^{\circ}$ F). Humidity 95% or less (non-condensing) |
| Storage Condition | -30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (Non-condensing) |
| General Function | One-key reset, three streams, heartbeat, password protection, watermark |
| Heater | Supported |
| Language | 8 languages: English, Russian, Croatian, Korean, Russian, Traditional Chinese, Ukrainian, Spanish |
| Approval | |
| RF | CE-RED:EN 301489-1 V2.2.3, EN 301489-3 V2.1.1, EN 301489-17 V3.2.4 , EN 301489-52 V1.2.1 , EN 300440 V2.1.1, EN 302288-2 V1.6.1 |
| EMC | CE-EMC: EN 55032: 2015/A11:2020+A1:2020, EN IEC61000-3-2: 2019/A1:2021, EN 61000-3-3: 2013+A1:2019/A2:2021, EN 50130-4: 2011 +A1: 2014 |
| Safety | CB: IEC 62368-1: 2014+A11,CB: IEC 62368-1: 2018+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 | IP65: IEC 60529-2013 |

▪ Available Model

iDS-TCE507-BR(F)/1140(AF)

▪ Dimension



L×W×H:396mm×437.4mm×151.1mm(15.59×17.22×5.95)

| | | | |
|--------------------------|----------------------------|-----------------|-----|
| Camera Mounting Hole[mm] | Camera Mounting Hole[inch] | Unit: mm [inch] | |
| 3-M6 | 3-M0.24 | SCALE | 1:1 |

▪ **Accessory**

▪ **Included**

**DS-1232ZJ-T/BJH
Cardan Joint**



▪ **Optional**

**DS-1701ZJ/HWB
Hoop & Bracket**



**DS-1275ZJ-HWB/600mm
Hoop & Bracket**



**DS-1278ZJ-HWB
Hoop & Bracket**



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