

iDS-TCV507-HER 5 MP Radar-video Fusion Checkpoint Camera



- 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), 0 Lux with white light
- Support speed detection with built-in 60 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: driving on lane line, lane change, wrong-way driving detection, U-Turn, red light running, failing to yield for pedestrians, not following directional sign, stop vehicle on intersection detection, seatbelt and phone call detection.
- Supports side mounting with convenient installation and debug

▪ Specification

| Camera | |
|---------------------------------|--|
| Image Sensor | 5 MP (2/3" GMOS) |
| Max. Resolution | 2464 × 2056 |
| Min. Illumination | Color: 0.001 Lux @ (F1.4, AGC ON), 0 Lux with white light |
| Shutter Time | 8 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 36.8° to 13.9°, vertical FOV 30.7° to 11.6°, diagonal FOV 48.0° to 18.1° |
| 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 | 60 to 61 GHz |
| Modulation Waveform | FMCW |
| Antenna Beam Width | 50° × 18° |
| Detection Distance | 150 m |
| Speed Measuring Range | 10 to 320 km/h |
| Max. Detectable Targets | Up to 128 |
| Speed Measurement Accuracy | ± 2 km/h |
| Coverage | Up to 2 lane(s) |
| Capture Rate | ≥ 98% |
| Trigger Mode | Approaching direction, leaving direction, and both |
| Video | |
| Main Stream | 50 Hz: 50 fps (2448 × 2048, 2464 × 2056, 2048 × 1536, 1920 × 1080, 704 × 576) 60 Hz: 30 fps (2448 × 2048, 2464 × 2056, 2048 × 1536, 1920 × 1080, 704 × 576) |
| Sub Stream | 50 Hz: 50 fps (2448 × 2048, 2048 × 1536, 1920 × 1080P, 704 × 576) 60 Hz: 30 fps (2448 × 2048, 2048 × 1536, 1920 × 1080P, 704 × 576) |
| Third Stream | 50 Hz: 50 fps (2048 × 1536, 1920 × 1080, 704 × 576) 60 Hz: 30 fps (2048 × 1536, 1920 × 1080, 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, ICMP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, SNMP, 802.1X, IPv4/IPv6, UDP, ISUP, ARP, IGMP, SMTP |
| Simultaneous Live View | Up to 6 channels |

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| API | ISAPI,SDK,ISUP,ONVIF (PROFILE S, PROFILE G, PROFILE T, PROFILE M) |
| User/Host | Up to 16 users 3 user levels: administrator, operator and user |
| Security | Password protection,Complicated password,HTTPS encryption,802.1X authentication (EAP-PEAP, EAP-LEAP, EAP-MD5),IP address filter,Basic and digest authentication for HTTP/HTTPS,WSSE and digest authentication for ONVIF,RTP/RTSP over HTTPS,Control timeout settings |
| Network Storage | MicroSD/TF card (512 GB), local storage and CVR, NVR, ANR |
| Client | Hik-Central Master, Hik-Central Pro, HikCentral Master Lite |
| Web Browser | Chrome V61+, IE9 to IE11, Firefox V40+, Edge |
| Image | |
| Image Settings | Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser. |
| Day/Night Switch | Auto,Schedule,Manual |
| SNR | 60 dB |
| Image Enhancement | BLC, 3D DNR |
| 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, supporting microSD/SDHC/SDXC card card, up to 512 GB |
| Alarm | 6 output interfaces |
| RS-485 | 1 RS-485 interface |
| Event | |
| Basic Event | HDD Error, Network disconnected, IP address conflicted, Traffic light detector exception |
| Road Traffic and Vehicle Detection | |
| Coverage | Up to 2 lane(s) |
| Smart Function | License plate recognition, Vehicle type classification, Vehicle color recognition, No-plate vehicle capture, Moving direction detection |
| Trigger Mode | External I/O trigger/Radar trigger/Video trigger |

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| LPR Countries/Regions | <p>Middle East: The United Arab Emi 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, Burma, India, Mongolia, Cambodia, Laos, Bangladesh</p> <p>America: The United States of 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 State, Belgium, Luxembourg, Albania, Kosovo</p> <p>Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia</p> |
| No License Plate Detection | Supported |
| Accuracy (Under recommended installation and lighting conditions) | <p>Capture rate > 99%,</p> <p>Vehicle moving direction recognition accuracy > 98.5%,</p> <p>LPR accuracy > 98%,</p> <p>Mistaken capture rate < 2%</p> |
| Motorcycle LPR | Supported |
| Vehicle Color | Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only. |
| Vehicle Type | Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle |

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| Vehicle Manufacturer | 212 Manufacturers: AC SCHNITZER, AITO, APOLLO, Ashok Leyland, Audi, Aston Martin, Acura, Ankai, Ayvip, Alfa Romeo, Asiarstar, Artega, ARCFOX, BAIC, Beiben Truck, BLUECAR, Bedford, Benz, BMW, BYD, Bufori, Buick, Bently, Brabus, Bugatti, Borgward, BONLUCK, Besturn, CADILLAC, Celis, Chevrolet, Citroen, Chery, Chrysler, Chang an, CNHTC, CHTC, Caterham, Conquest, C&C Trucks, CAMC, DAIHATSU, DMC, DS, Dacia, Dongnan, Dodge, Dongwo, Denza, Dongfeng, Daewoo, Dima, Denway, DORCEN, Eicher, Emgrand, Equus, EXEED, Ford, FORO, Fornasari, Ferrari, Fuqi, Fiat, Fisker, FQT Motor, Foton, FAW, FORLAND, FUSO, Force Motors, Fxauto, Faralli Mazzanti, GAC, Great Wall, GMC, Geely, Geometry, Hyundai, HENNESSEY, HINO, Honda, Haima, Haval, Hongqi, Isuzu, Infiniti, Iveco, IAT, IM, JAC, JBC, JEEP, Jaguar, JMC, JETOUR, JETTA, Joylong, Koenigsegg, KIA, Kia-Borrego, King Long, Kama, KTM, LEVC, Lexus, Land Rover, Lincoln, Lamborghini, Lotus, Luxgen, Levdeo, Leopaard, Lynk & Co, Lada, Leading Ideal, LEAPMOTOR, LUMMA, Lorinser, Land Wind, MAN Trucks, MAXUS, MG, MINI, Mahindra, Mitsuoka, Maserati, Meiya, McLaren, Maybach, Mazda, Morgan, Mitsubishi, Mustang, Marvel R, Maple, MANSORY, Modern, NOMA, Nissan, Norinco, Neoplan, NIO, NETA, Opel, Ora, Oushang, Perodua, Porsche, Peugeot, PGO, Proton, Pagani, Polestar, POCCO, Qoros, RAM, Rolls-Royce, Renault, Roewe, Rohens, Ranz, Ruilan, Radar, Renault Samsung, SAAB, SCANIA, SCION, SMART, SML ISUZU, Suzuki, SAIC Datong, Subaru, Skoda, Startek, Soyat, Seat, SWM, Sany, SsangYong, Sojen, Silver, SATE, SOL, Skyworth, SGMW, SITECH DEV, TATA, Tankar, Tesla, Trumpchi, Techart, Toyota, UD, UAES, Volkswagen, VINFAST, Venucia, Volvo, VOYAH, VeiculoLongo, Weltmeister, XCMG, Xinyuan, XPENG, Yutong, YAMAHA, Zhonghua, Zotye, Zhinuo, ZEEKR, Zenvo |
| License Plate Color Recognition | Customized to support |
| U-Turn | Supported(only E-Police mode) |
| Red Light Running | Supported(only E-Police mode) |
| Failing to Yield for Pedestrians | Supported(only E-Police mode) |
| Stop Vehicle on Intersection | Supported(only E-Police mode) |
| Not Following Directional Sign | Supported(only E-Police mode) |
| Yellow Box Junction Violation | Supported (only E-Police mode) |
| Driving on Lane Line Detection | Supported |
| Lane Change Detection | Supported |
| Seatbelt Detection | Supported (with flash supplement light) |
| Phone Call Detection | Supported (with flash supplement light) |
| Vehicle Window Film | Supported (with flash supplement light) |
| Wrong-Way Driving Detection | Supported |
| Emergency Lane Occupation | Supported (truck forbidden lane, emergency lane, urban bus lane) |
| Prohibition Mark Violation | Supported |
| Speeding | Supported (with Radar) |
| Low-Speed | Supported (with Radar) |
| Without Helmet | Supported |
| Manned Non-Motor Vehicle | Supported |
| Capture Speed Range | 10 to 320 km/h |
| General | |
| Operating System | Linux |
| Power | DC 36 V \pm 20%, 2 A, max. 75 W, two-core terminal block |

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|---------------------|--|
| Material | Aluminum alloy |
| Dimension | 457 mm × 396 mm × 139.15 mm (17.99" × 15.59" × 5.48") (L × W × H) |
| Package Dimension | 535 mm × 500 mm × 360 mm (21.06" × 19.68" × 14.17") (L × W × H) |
| With Package Weight | Approx. 13.72 kg (30.2 lb.) |
| Weight | Approx. 8.13 kg (17.9 lb.) |
| Operating Condition | -30 °C to 70 °C (-22 °F to 158 °F). Humidity: 5% to 95% (non-condensing) |
| Storage Condition | -30 °C to 70 °C (-22 °F to 158 °F). Humidity: 5% to 95% (non-condensing) |
| General Function | One-key reset, Three streams, Heartbeat, Password protection, Pixel counter |
| Heater | Optional |
| Language | 8 languages: English, Thai, 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 IEC 62311:2020 |
| 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 |
| Environment | CE-RoHS: 2011/65/EU, Reach: Regulation (EC) No 1907/2006 |
| Safety | CE-LVD: EN 62368-1: 2014+A11: 2017, CB: IEC 62368-1: 2018, CB: IEC 62368-1: 2014, CE-LVD: EN IEC 62368-1:2020+A11:2020 |
| Protection | IK10: IEC 62262:2002, IP66: IEC 60529-2013 |

▪ 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.

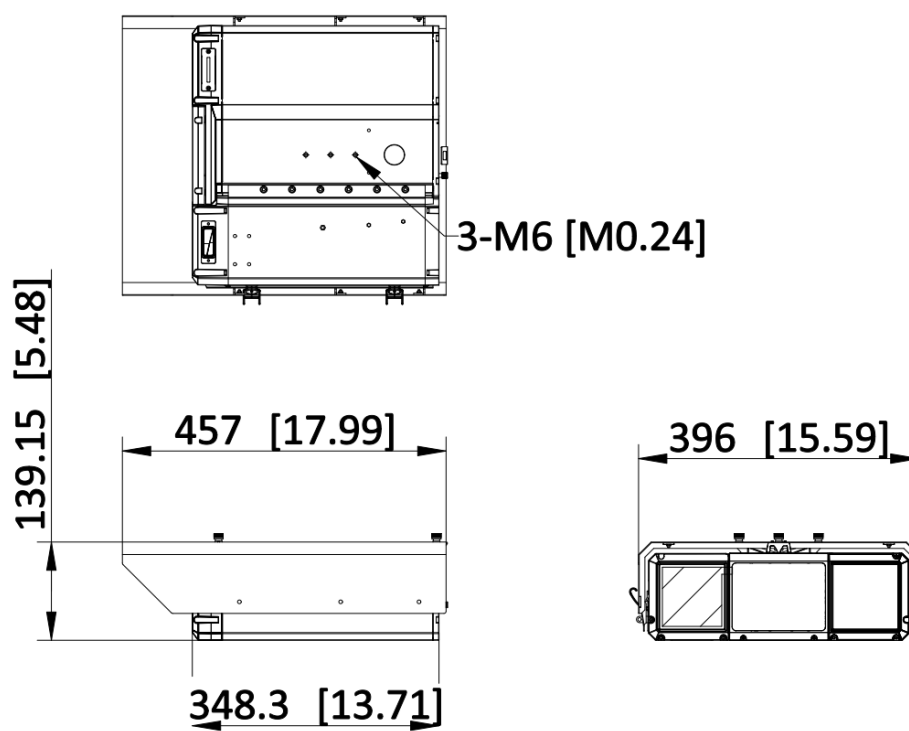
This model has NO SPECIFIC PROTECTION.

| 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. |

▪ Available Model

iDS-TCV507-HER/150m/1140(AF)

▪ Dimension



L × W × H: 457 mm × 396 mm × 139.15 mm (17.99 × 15.59 × 5.48)

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

▪ Accessory

▪ Included

DS-1232ZJ-T/BJH



▪ Optional

| DS-1275ZJ-BJH/127mm | DS-1278ZJ-BJH | DS-1275ZJ-BJH/600mm | DS-1701ZJ/BJH |
|---|--|---|---|
| A black, rectangular mounting bracket with three curved, metallic mounting arms extending from its bottom edge. | A black, rectangular mounting bracket with four curved, metallic mounting arms extending from its bottom edge. | A black, rectangular mounting bracket with three curved, metallic mounting arms extending from its bottom edge. | A black, L-shaped mounting bracket with a flat base and a vertical arm. |

▪ Installation Methods

| Vertical Pole Mounting DS-1275ZJ-BJH/127m m+DS-1701ZJ/BJH | Vertical Pole Mounting DS-1275ZJ-BJH/600m m+DS-1701ZJ/BJH | Horizontal Pole Mounting DS-1278ZJ-BJH | Wall Mounting DS-1701ZJ/BJH |
|---|---|---|--|
| A line drawing showing a camera mounted on a vertical pole using a bracket and a wall mounting bracket. | A line drawing showing a camera mounted on a vertical pole using a bracket and a wall mounting bracket. | A line drawing showing a camera mounted on a horizontal pole using a bracket. | A line drawing showing a camera mounted on a wall using a bracket. |

See Far, Go Further



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