

iDS-TCV907-HIR 9 MP IR ANPR All-Rounder Traffic Camera



- All-in-one design, integrating camera, radar and supplement light
- High quality imaging with 9 MP resolution (1" GMOS)
- Excellent low-light performance, color: 0.001 Lux @ (F1.4, AGC ON), B/W: 0.0005 Lux @ (F1.4, AGC ON)
- Support speed detection with built-in 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, seatbelt, phone call, U-Turn, red light running, failing to yield for pedestrians, not following directional sign and stop vehicle on intersection detection.
- Supports side mounting with convenient installation and debug

▪ Specification

| Camera | |
|---------------------------------|--|
| Image Sensor | 9 MP (1" GMOS) |
| Max. Resolution | 4096 × 2160 |
| Min. Illumination | Color: 0.001 Lux @ (F1.4, AGC ON), B/W: 0.0005 Lux @ (F1.4, AGC ON), 0 Lux with IR |
| Shutter Time | 7 us-20000 us |
| Day & Night | IR cut filter |
| Lens | |
| Lens Type | Varifocal lens, motorized lens, 11 to 40 mm |
| Focal Length & FOV | 11 to 40 mm, horizontal FOV 61.8° to 23.5°, vertical FOV 32.4° to 12.2°, diagonal FOV 70.0° to 26.8° |
| Focus | Auto |
| Aperture | F1.6 |
| Illuminator | |
| Built-in Supplement Light Type | IR light |
| Light Bead | 16 |
| Built-in Supplement Light Range | Up to 40 m |
| IR Wavelength | 850 nm |
| 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 | 100 m |
| Speed Measuring Range | 10 to 320 km/h |
| Max. Detectable Targets | Up to 32 |
| Speed Measuring Accuracy | ±2 km/h |
| Coverage Lanes | Up to 3 lane(s) |
| Capture Rate | ≥ 95% |
| Trigger Mode | Approaching direction, Leaving direction, Bidirection |
| Video | |
| Main Stream | 50 Hz: 50 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920 × 1200, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920 × 1200, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 50 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Third Stream | 50 Hz: 50 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720) |
| 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, IGMP, UDP, IPv4/IPv6, ISUP, ARP, DHCP, 802.1X, SMTP |
| Simultaneous Live View | Up to 10 channels |
| 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), Basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, Control timeout settings |
| Network Storage | Micro SD/TF card (512 GB), Local storage, 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 10 M/100 M/1000 M self-adaptive Ethernet interface |
| On-Board Storage | Built-in memory card slot, supporting micro SD/SDHC/SDXC 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 3 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 |
| Vehicle Type | Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle |
| Accuracy (Under recommended installation and lighting conditions) | Capture rate > 99%, Vehicle moving direction recognition accuracy > 98.5%, LPR accuracy > 98%, Mistaken capture rate < 2% |
| Motorcycle LPR | Supported |
| No License Plate Detection | Supported |

| | |
|---------------------------------|---|
| 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> |
| Vehicle Color | <p>Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black</p> <p>Recognizable at daytime only.</p> |
| Vehicle Manufacturer | <p>212 Manufacturers: AC SCHNITZER, AITO, APOLLO, Ashok Leyland, Audi, Aston Martin, Acura, Ankai, Ayvip, Alfa Romeo, Asiastar, Artega, ARCFOX, BAIC, Beiben Truck, BLUECAR, Bedford, Benz, BMW, BYD, Bufen, 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</p> |
| 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 (only strobe light mode) |
| Lane Change Detection | Supported (only strobe light mode) |
| 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 |
| Material | Aluminum alloy |
| Dimension | 437 mm \times 396 mm \times 139.15 mm (17.2" \times 15.59" \times 5.48") (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: 5% to 95% (non-condensing) |
| Storage Condition | -30 $^{\circ}$ C to 70 $^{\circ}$ C (-22 $^{\circ}$ F to 158 $^{\circ}$ 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 | |
| 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, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006 |
| 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 |
| Safety | CE-LVD: EN 62368-1: 2014+A11: 2017, CB: IEC 62368-1:2018, CE-LVD: EN 62368-1:2020+A11: 2020 |
| Protection | IK10: IEC 62262:2002, IP66: IEC 60529-2013 |
| Anti-Corrosion Protection | -Y: NEMA 4X (NEMA 250-2018) |

▪ Typical Application

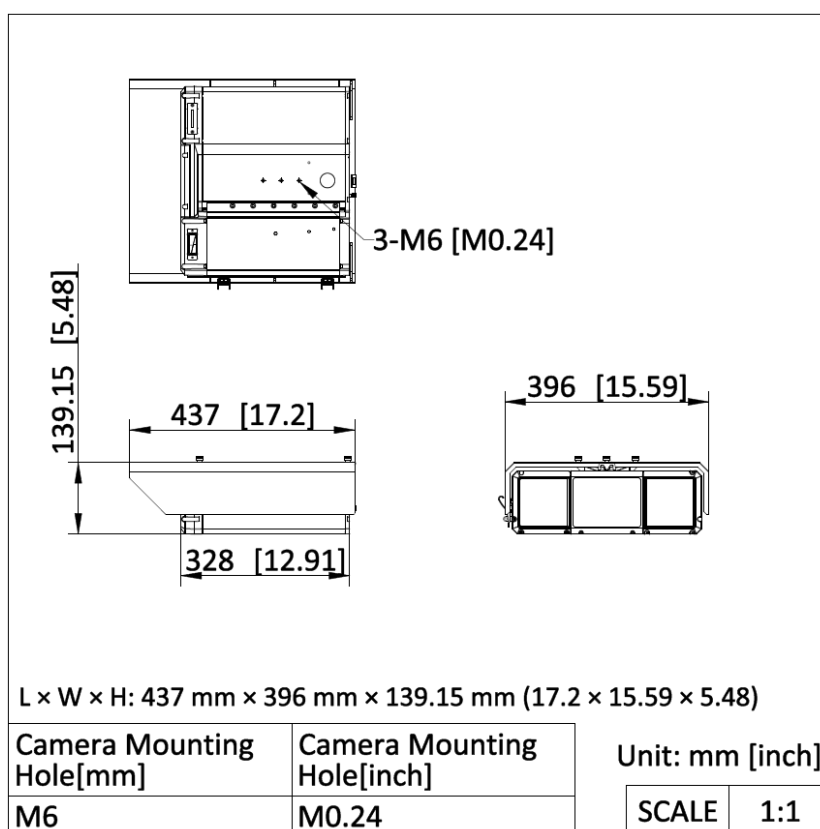
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

/Y model: This model has MODERATE PROTECTION.

Without /Y model: 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. |

▪ Dimension



▪ Accessory

▪ Included

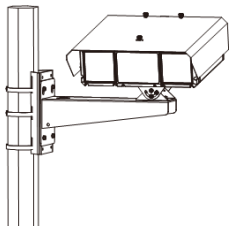
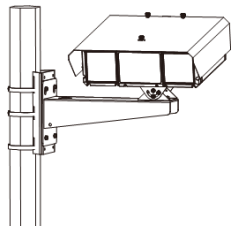
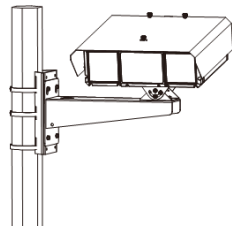
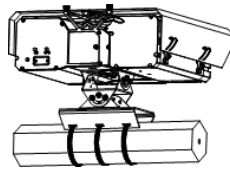
DS-1232ZJ-T/BJH



▪ Optional

| DS-1275ZJ-BJH/127 mm | DS-1701ZJ/BJH | DS-1275ZJ-BJH/600 mm | DS-1278ZJ-BJH |
|---|---|--|---|
|  |  |  |  |

■ Installation Methods

| Vertical Pole Mounting DS-1275ZJ-BJH/127 mm | Vertical Pole Mounting DS-1701ZJ/BJH | Vertical Pole Mounting DS-1275ZJ-BJH/600 mm | Horizontal Pole Mounting DS-1278ZJ-BJH |
|--|--|---|--|
|  |  |  |  |

See Far, Go Further



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