

## iDS-TCV507-HIR 5 MP ANPR All-Rounder Traffic 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), B/W: 0.0005 Lux @ (F1.4, AGC ON), 0 Lux with IR
Shutter Time	8 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 35.8° to 13.9°, vertical FOV 30.7° to 11.6°, diagonal FOV 48.0° to 18.1°
Focus	Auto
Aperture	F1.8-1.9
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	60 to 61 GHz
Modulation Waveform	FMCW
Antenna Beam Width	50° × 18°
Detection Distance	150 m
Speed Range	10 to 320 km/h
Speed Measuring Accuracy	± 2 km/h
Max. Detectable Targets	Up to 128
Coverage Lanes	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

<b>Network</b>	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, SNMP, 802.1X, IPv4/IPv6, UDP, ISUP, ARP, IGMP, STMP
Simultaneous Live View	Up to 6 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, Control timeout settings, 802.1X authentication (EAP-PEAP, EAP-LEAP, EAP-MD5), Basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface
Network Storage	MicroSD/TF card (512 GB), local storage and CVR, NVR, ANR
Client	Hik-Central Master, Hik-Central Pro, Hik-Central Master Lite
Web Browser	Chrome V61+, IE9 to IE11, Firefox V40+, Edge
<b>Image</b>	
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
<b>Supplement Detection (Satellite Positioning)</b>	
Satellite Positioning	Optional
<b>Interface</b>	
Ethernet Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet interface
On-Board Storage	Built-in memory card slot, supporting microSD/SDHC/SDXC card, up to 512 GB
Alarm	6 output interfaces
RS-485	1 RS-485 interface
<b>Event</b>	
Basic Event	HDD Error, network disconnected, IP address conflicted, vehicle detector exception, traffic light detector exception
<b>Road Traffic and Vehicle Detection</b>	
Coverage	Up to 2 lane(s)

LPR Countries/Regions	<p>Middle East: The United Arab Emirates (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain), Qatar, Iran, 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>
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%
No License Plate Detection	Supported
Motorcycle LPR	Supported
Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only.

Vehicle Manufacturer	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, 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, Equss, 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, Leoparda, 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, VINFEST, 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
<b>General</b>	
Operating System	Linux
Power	DC 36 V ± 20%, 2 A, max. 75 W, two-core terminal block

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 × 390 mm (21.06" × 19.68" × 15.35") (L × W × H)
With Package Weight	Approx. 13.7 kg (30.2 lb.)
Weight	Approx. 8.05 kg (17.7 lb.)
Storage Condition	-30 °C to 70 °C (-22 °F to 158 °F). Humidity: 5% to 95% (non-condensing)
Operating 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
<b>Approval</b>	
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, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Safety	CE-LVD: EN 62368-1: 2014+A11: 2017, CB: IEC 62368-1: 2018, CE-LVD: EN IEC 62368-1: 2020+A11: 2020
Protection	IK10: IEC 62262:2002, IP66: IEC 60529-2013

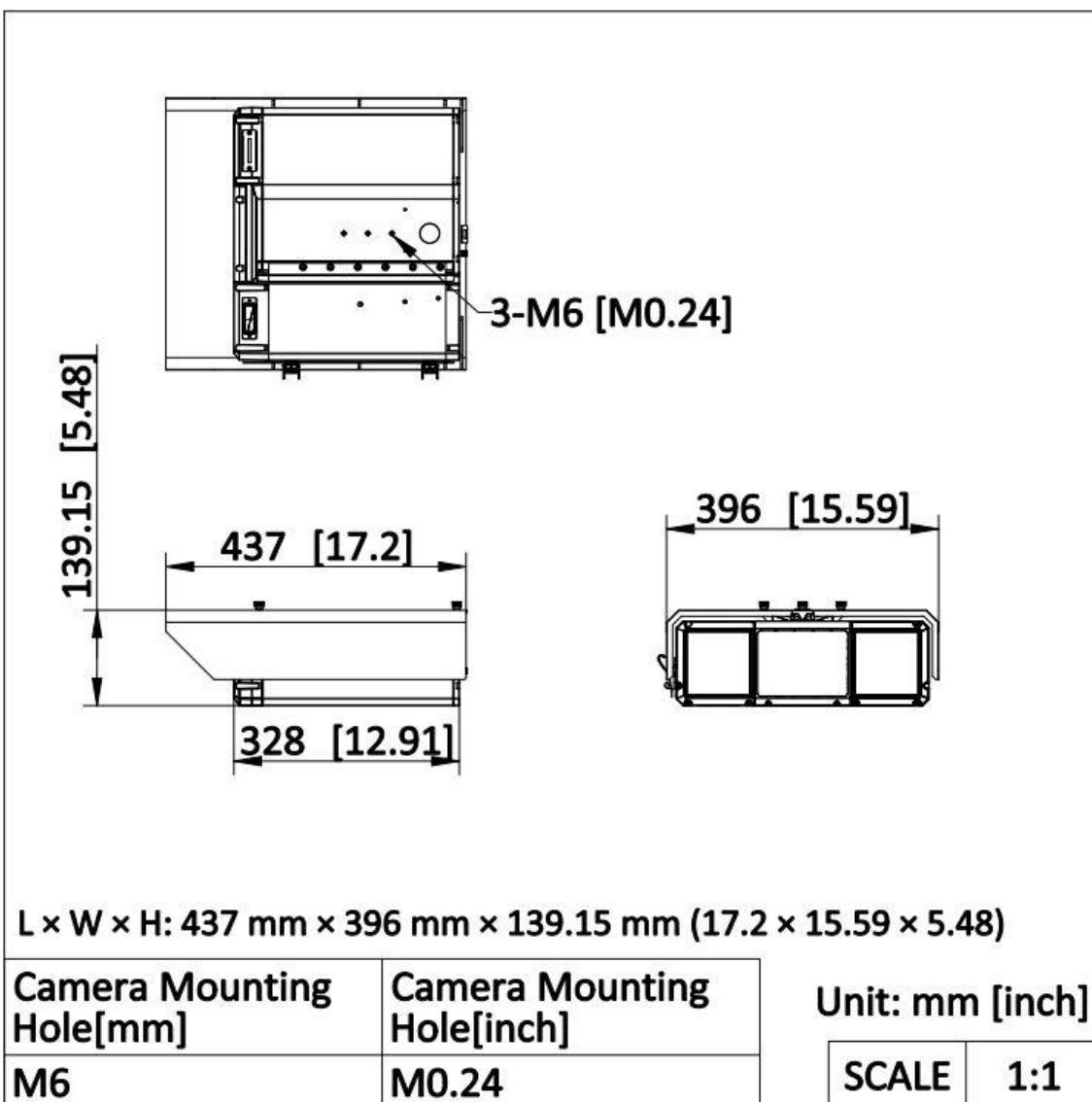
## ▪ Typical Application

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.
Moderate protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

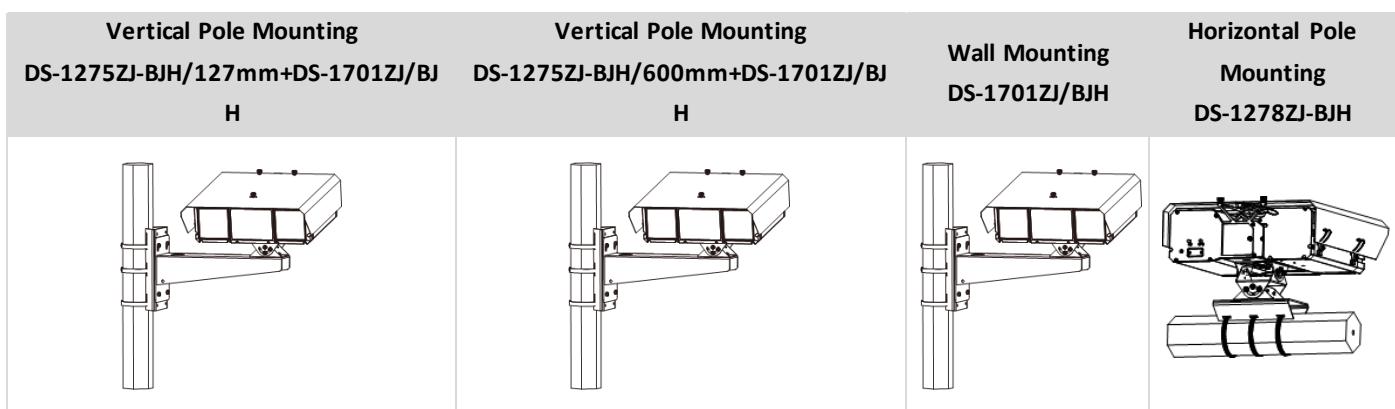
- Dimension



- Accessory

- Included



**▪ Optional****▪ Installation Methods**

# See Far, Go Further



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