iDS-TCV900-HE
9MP Checkpoint Camera





- High quality imaging with 9 MP resolution (1”GMOS)
- Excellent low-light performance, Color: 0.001 Lux@(F1.4, AGC ON)
- Efficient H.265 compression technology
- 3D DNR technology delivers clean and sharp images
- Support license plate recognition (LPR)
- 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.
- Application Scenarios: highway, tunnel, toll station, urban road, etc.

▪ Specification

Camera	
Image Sensor	9 MP (1'' GMOS)
Max. Resolution	4096 × 2160
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON), 0 Lux with white light
Shutter Time	7 us-20000 us
Day & Night	24/7 color imaging
Lens	
Lens Type	iDS-TCV900-HE:Fixed focal lens, 25 mm, Varifocal lens, motorized lens, 11 to 40 mm iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):Fixed focal lens, 25 mm, Varifocal lens, motorized lens, 11 to 40 mm iDS-TCV900-HE/25(海外标配):Fixed focal lens, 25 mm
Focal Length & FOV	iDS-TCV900-HE: 25 mm, horizontal FOV 32.0°, vertical FOV 16.8°, diagonal FOV 36.3°, 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° iDS-TCV900-HE/25(海外标配): 25 mm, horizontal FOV 32°, vertical FOV 16.8°, diagonal FOV 36.3°, 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° iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配),iDS-TCV900-HE/1140/H1(AF)(海外中性): 25 mm, horizontal FOV 32.0°, vertical FOV 16.8°, diagonal FOV 36.3°, 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	iDS-TCV900-HE:Auto,Manual Manual, Auto
Aperture	iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/1140/H1(AF)(海外中性):F1.6 iDS-TCV900-HE/25/H1(海外标配),iDS-TCV900-HE/25(海外标配):F1.4-16
Illuminator	
Built-in Supplement Light Type	White light
Built-in Supplement Light Range	Up to 30 m
Light Bead	iDS-TCV900-HE:3 iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):3 iDS-TCV900-HE/25(海外标配):4
External Supplement Light	Strobe and flash light

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,802.1X,IPv4/IPv6,UDP,IS UP,ARP,IGMP,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,Control timeout settings,802.1X authentication (EAP-PEAP, EAP-LEAP, EAP-MD5),Basic and digest authentication for HTTP/HTTPS,WSSE and digest authentication for ONVIF
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
Interface	
Ethernet Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port(s)
On-Board Storage	Built-in memory card slot, supporting microSD/SDHC/SDXC card, up to 512 GB
Alarm	2 input interfaces (T1, SYNC), 7 output interfaces
RS-485	3 RS-485 interfaces (half duplex, HIKVISION)
RS-232	1 RS-232 interface
USB	1 USB 2.0 interface

Event	
Basic Event	HDD error,Network disconnected,IP address conflict, 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
LPR Countries/Regions	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, Africa: Nigeria, Kenya, Ivory Coast , South Africa, Tanzania, Mauritius, Morocco, Tunisia, Sierra Leone, Zambia, Ghana, Zimbabwe, Uganda, Angola, Ethiopia, Senegal, Algeria, 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, America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia, Brazil, Ecuador, Peru, Mexico, Panama, Costa Rica, Trinidad and Tobago, the Dominican Republic, Guatemala, 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, Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia, Turkmenistan, Tajikistan
Trigger Mode	External I/O trigger/Radar trigger/Video trigger
Vehicle Type	Car,Van,Bus,Truck,Light Truck,SUV(MPV),Pickup,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 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, 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
Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only.
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)
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
Yellow Box Junction Violation	Supported (only E-Police mode)

Capture Speed Range	10 to 320 km/h
General	
Operating System	Linux
Power	AC 100 V to 240 V, 1.5 A, max. 32 W, 3-core terminal block
Material	Aluminum alloy
Dimension	iDS-TCV900-HE:501.0 mm × 175.6 mm × 144.6 mm (19.72" × 6.92" × 5.69") (L × W × H) iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):501.0 mm × 175.6 mm × 144.6 mm (19.72" × 6.92" × 5.69") (L × W × H) iDS-TCV900-HE/25(海外标配):636 mm × 174 mm × 146 mm (25.04" × 6.85" × 5.75") (L × W × H)
Package Dimension	iDS-TCV900-HE:667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L × W × H) iDS-TCV900-HE/25(海外标配):833 mm × 275 mm × 325 mm (32.80" × 10.83" × 12.80") (L × W × H) iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L × W × H)
Weight	iDS-TCV900-HE:Approx. 5.13 kg (11.31 lb.) iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):Approx. 5.13 kg (11.31 lb.) iDS-TCV900-HE/25(海外标配):Approx. 6.11 kg (13.47 lb.)
With Package Weight	iDS-TCV900-HE:Approx. 7.4 kg (16.31 lb.) iDS-TCV900-HE/25(海外标配):Approx. 9.92 kg (21.87 lb.) iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):Approx. 7.4 kg (16.31 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	Password protection,Three streams,Heartbeat,One-key reset,Pixel counter
Heater	Optional
Language	8 languages: English, Russian, 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
Safety	CB: IEC 62368-1: 2014,CE-LVD: EN 62368-1: 2014+A11: 2017,CB: IEC 62368-1: 2018, CE-LVD: EN 62368-1: 2020+A11: 2020
Environment	CE-RoHS: 2011/65/EU,WEEE: 2012/19/EU,Reach: Regulation (EC) No 1907/2006
Protection	iDS-TCV900-HE:IK10: IEC 62262:2002,IP67: IEC 60529-2013 iDS-TCV900-HE/25(海外标配):IK10: IEC 62262:2002,IP54: IEC 60529-2013 iDS-TCV900-HE/1140/H1(AF)(海外标配),iDS-TCV900-HE/25/H1(海外标配):IK10: IEC 62262:2002,IP67: IEC 60529-2013

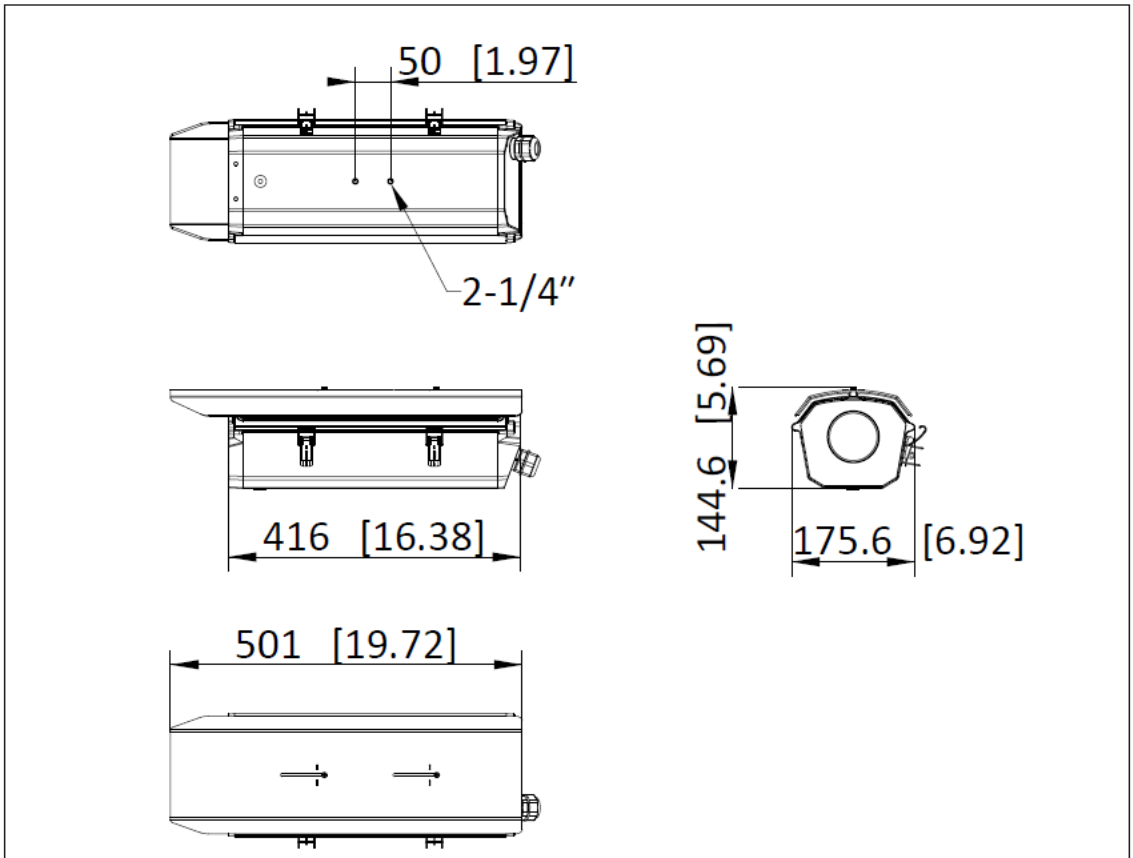
▪ Typical Application

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.

▪ Dimension



L× W× H:501mm× 175.6mm× 144.6mm(19.72× 6.92× 5.69)

Camera Mounting Hole[mm]	Camera Mounting Hole[inch]
2-6.35	2-1/4″

Unit: mm [inch]

SCALE	1:1

▪ Accessory

▪ Included

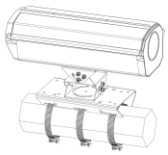
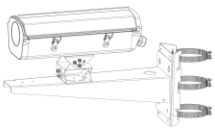
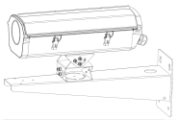
DS-1232ZJ-T/BJH


▪ Optional

DS-1278ZJ-HWB	DS-1275ZJ/HKB	DS-1701ZJ/HKB

▪ Installation Methods

Horizontal Pole Mounting DS-1278ZJ-HWB	Vertical Pole Mounting DS-1275ZJ/HKB+DS-1701ZJ/HKB	Wall Mounting DS-1701ZJ/HKB
		

See Far, Go Further

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