

# iDS-TCV900-HI 9 MP IR ANPR Checkpoint Capture Unit





- 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)
- 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		
	Color: 0.001 Lux @ (F1.4, AGC ON),		
Min. Illumination	B/W: 0.0005 Lux @ (F1.4, AGC ON),		
	0 Lux with IR		
Shutter Time	7 us to 20000 us		
Day & Night	IR cut filter		
Lens	in cut inter		
Lens	Eived focal long 25 mm		
Lens Type	Fixed focal lens, 25 mm,  (AF)Model: Varifocal lens, motorized lens, 11 to 40 mm		
	(Ar)Model: Varifocal lens, motorized lens, 11 to 40 mm		
Focal Length & FOV	25 mm, horizontal FOV 31.6°, vertical FOV 16.9°, diagonal FOV 35.4°,11 to 40 mm,		
Total Length & TOV	horizontal FOV 62° to 23.6°, vertical FOV 32.2° to 12.2°, diagonal FOV 70° to 26.8°		
Focus	Manual,(AF) Model: Auto		
Aperture	F1.6-C/F1.6-25/F1.6		
Illuminator	11.0 C/11.0 23/11.0		
Built-in Supplement Light Type	IR light		
Light Bead	3		
Built-in Supplement Light Range	Up to 80 m		
Built-in Supplement Light Range	00 10 80 111		
for LPR	Up to 40 m		
IR Wavelength	850 nm		
External Supplement Light	Strobe and flash light		
Cover Area	Can cover 12m(wide) roadway(in conditions 20-30m far from camera)		
Video			
	50 Hz: 50 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920		
Main Stream	× 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 64 Mbps		
Н.264 Туре	Baseline profile/Main profile/High profile		
H.265 Type	Main Profile		



Network			
Drotocols	IPv4, IPv6, ICMP, SSH, DHCP, FTP, HTTPS, SSL/TLS, Ethernet, SFTP, DNS, NTP, TCP, I		
Protocols	Syslog, RTSP		
AES256	Supported		
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		
	Password protection,Complicated password,HTTPS encryption,Control timeout		
Security	settings,802.1X authentication (EAP-PEAP, EAP-LEAP, EAP-MD5),Basic and digest		
Security	authentication for HTTP/HTTPS,WSSE and digest authentication for Open Network		
	Video Interface		
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			
Web blowser	Chrome V61+, IE9 to IE11, Firefox V40+, Edge		
Image			
Image Settings	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by		
mage settings	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)		
POE	Supported		
On-Board Storage	Built-in memory card slot, supporting microSD/SDHC/SDXC card 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 conflicted, vehicle detector exception,		
	traffic light detector exception		
Road Traffic and Vehicle Detection	1		
U-Turn	Supported (only strobe light mode)		
Red Light Running	Supported (only strobe light mode)		
Failing to Yield for Pedestrians	Supported (only strobe light mode)		
Not Following Directional Sign	Supported (only strobe light mode)		
Stop Vehicle on Intersection	Supported (only strobe light mode)		
Unauthorized access detection	supported with user lock		
Coverage	Up to 3 lane(s)		
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, Based on video speed measurement		



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
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 Type	Car,Van,Bus,Truck,Light Truck,SUV(MPV),Pickup,Motorcycle,Tricycle
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, 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
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)
Seatbelt Detection	Supported (with flash supplement light)
Phone Call Detection	Supported (with flash supplement light)
Capture Speed Range	10 to 320 km/h
Traffic Lights Control/Red Light dection	Supported(with RS485 or I/O)
Tamper	Supported
General	
Operating System	Linux
Power	AC 100 V to 240 V, 2.9 A, max. 32 W, 3-core terminal block ,DC 24 model:DC 24 V, 2 A, max. 47 W
Material	Aluminum alloy
Dimension	iDS-TCV900-HI:501.0 mm × 175.6 mm × 144.6 mm (19.72" × 6.92" × 5.69") (L × W × H) iDS-TCV900-HI/1140/H1(AF),iDS-TCV900-HI/25/H1,iDS-TCV900-HI/25/H1(24V),iDS-TCV900-HI/Y/1140/H1(AF):501.0 mm × 175.6 mm × 144.6 mm (19.72" × 6.92" × 5.69") (L × W × H) iDS-TCV900-HI/1140(AF),iDS-TCV900-HI/25,iDS-TCV900-HI/Y/1140(AF):636 mm × 174 mm × 146 mm (25.04" × 6.85" × 5.75") (L × W × H)



	iDS-TCV900-HI:667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L × W × H)	
Package Dimension	iDS-TCV900-HI/1140(AF),iDS-TCV900-HI/25,iDS-TCV900-HI/Y/1140(AF):833 mm × 275	
	mm × 325 mm (32.80" × 10.83" × 12.80") (L × W × H)	
	iDS-TCV900-HI/1140/H1(AF),iDS-TCV900-HI/25/H1,iDS-TCV900-HI/25/H1(24V),iDS-	
	TCV900-HI/Y/1140/H1(AF):667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L ×	
	W × H)	
	iDS-TCV900-HI:Approx. 5.13 kg (11.31 lb.)	
	iDS-TCV900-HI/1140/H1(AF),iDS-TCV900-HI/25/H1,iDS-TCV900-HI/25/H1(24V),iDS-	
Weight	TCV900-HI/Y/1140/H1(AF):Approx. 5.13 kg (11.31 lb.)	
	iDS-TCV900-HI/1140(AF),iDS-TCV900-HI/25,iDS-TCV900-HI/Y/1140(AF):Approx. 6.11 kg	
	(13.47 lb.)	
	iDS-TCV900-HI:Approx. 7.40 kg (16.31 lb.)	
	iDS-TCV900-HI/1140/H1(AF),iDS-TCV900-HI/25/H1,iDS-TCV900-HI/25/H1(24V),iDS-	
With Package Weight	TCV900-HI/Y/1140/H1(AF):Approx. 7.40 kg (16.31 lb.)	
	iDS-TCV900-HI/1140(AF),iDS-TCV900-HI/25,iDS-TCV900-HI/Y/1140(AF):Approx. 9.92 kg	
	(21.87 lb.)	
Operating Condition	-30 °C to 70 °C (-22 °F to 158°F). Humidity: 5% to 95% (non-condensing)	
Storage Condition	-30 °C to +60 °C (-22 °F to +140 °F). Humidity 95% or less (Non-condensing)	
General Function	Password protection, Three streams, Heartbeat, One-key reset, Pixel counter	
Heater	Supported	
Language	8 languages: English, Thai, Croatian, Korean, Russian, Traditional Chinese, Ukrainian,	
Language	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	
Environment	CE-RoHS: 2011/65/EU,WEEE: 2012/19/EU,Reach: Regulation (EC) No 1907/2006	
Protection	IK10: IEC 62262:2002,IP67: IEC 60529-2013	
Others	IEC 60068-2-64, IEC 60068-2-27	

### 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	
	Hikvision products at this level are equipped for use in	
Top lovel greatestics	areas where professional anti-corrosion protection is a	
Top-level protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level are equipped for use in	
Moderate protection	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
No specific protection	areas where no specific anti-corrosion protection is needed.

#### Available Model

iDS-TCV900-HI/1140(AF)

iDS-TCV900-HI/25

iDS-TCV900-HI/Y/1140(AF)

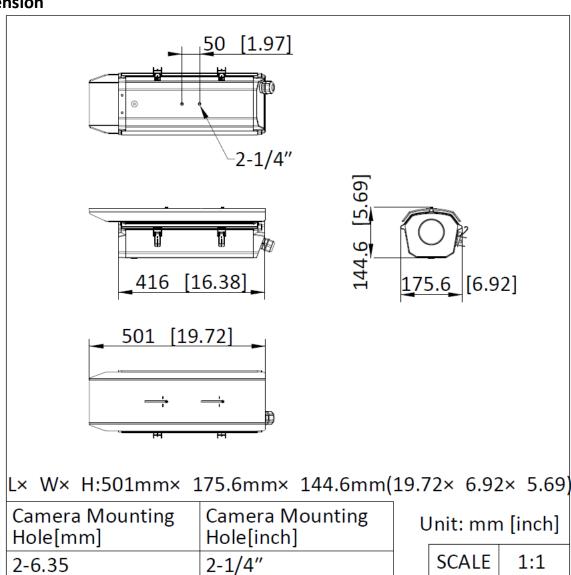
iDS-TCV900-HI/1140/H1(AF)

iDS-TCV900-HI/25/H1

iDS-TCV900-HI/25/H1(24V)

iDS-TCV900-HI/Y/1140/H1(AF)

#### Dimension





- Accessory
- Included



### ■Optional

DS-1278ZJ-HWB Hoop & Bracket	DS-1275ZJ/HKB Hoop & Bracket	DS-1701ZJ/HKB Hoop & Bracket
	au	
	Annual An	



# See Far, Go Further



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