

iDS-TCV900-HE/H1 9 MP 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)
- 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			
	Fixed focal lens, 25 mm,		
Lens Type	Varifocal lens, motorized lens, 11 to 40 mm		
	25 mm, horizontal FOV 31.6°, vertical FOV 17.0°, diagonal FOV 35.4°,		
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	Manual, Auto		
	iDS-TCV900-HE/1140/H1(AF): F1.6		
Aperture	iDS-TCV900-HE/25/H1: F1.4-16		
Illuminator			
Built-in Supplement Light Type	White light		
Built-in Supplement Light Range	Up to 30 m		
Light Bead	3		
External Supplement Light	Strobe and flash light		
Video			
	50 Hz: 50 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920		
AAs in Chasses	× 1200,1920 × 1080,1280 × 720)		
Main Stream	60 Hz: 30 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920		
	× 1200,1920 × 1080,1280 × 720)		
Cula Chuan an	50 Hz: 50 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720)		
Sub-Stream	60 Hz: 30 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720)		
Thind Change	50 Hz: 50 fps (1920 × 1080, 1280 × 720)		
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720)		
	Main stream: H.265/H.264/MJPEG,		
Video Compression	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		
Protocois	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		
	Password protection,Complicated password,HTTPS encryption,Control timeout		
Security	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			
Luca da Catti a da	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by		
Image 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)		
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			
	HDD error,Network disconnected,IP address conflict,		
Basic Event	traffic light detector exception		
Road Traffic and Vehicle Dete	ection		
Coverage	Up to 3 lane(s)		
Consort Franchica	License plate recognition, Vehicle type classification, Vehicle color recognition, No-plate		
Smart Function	vehicle capture, Moving direction detection		
	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,		
LPR Countries/Regions	America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia,		
<u> </u>	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,		
T	Tajikistan		
Trigger Mode	External I/O trigger/Radar trigger/Video trigger		
Vehicle Type	Car,Van,Bus,Truck,Light Truck,SUV(MPV),Pickup,Motorcycle,Tricycle		



	Capture rate > 99%,		
Accuracy (Under recommended	Vehicle moving direction recognition accuracy > 98.5%,		
installation and lighting	LPR accuracy>98%,		
conditions)	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	501.0 mm × 175.6 mm × 144.6 mm (19.72" × 6.92" × 5.69") (L × W × H)			
Package Dimension	667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L × W × H)			
Weight	Approx. 5.13 kg (11.31 lb.)			
With Package Weight	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,			
Safety	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	IK10:IEC 62262:2002,IP67:IEC 60529-2013			

Typical Application

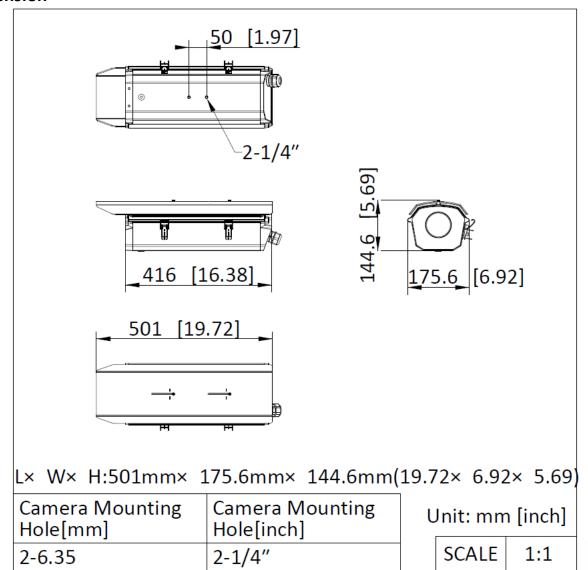
 $Hikvision\ products\ are\ classified\ into\ three\ levels\ according\ to\ their\ anti-corrosion\ performance.\ Refer\ to\ the\ following\ description\ to\ choose\ for\ your\ using\ environment.$

This model has NO SPECIFIC PROTECTION.

Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-rever protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level are equipped for use in	
	areas with moderate anti-corrosion demands. Typical	
Moderate protection	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.	



Dimension





- Accessory
- Included



Optional



Installation Methods

Vertical Pole Mounting DS-1275ZJ/HKB+DS-1 701ZJ/HKB	Horizontal Pole Mounting DS-1278ZJ-HWB	Wall Mounting DS-1701ZJ/HKB

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