

iDS-TCV900-HI/H1(UHK) 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
- Supports audio input and output for two-way communication and external audio integration.
- Support license plate recognition (LPR)
- ANPR utilizes advanced algorithms to accurately recognize vehicle license plate numbers and letters.
- Vehicle feature recognition: vehicle type/color/manufacturer/license plate color recognition, no-plate vehicle capture
- Supports vehicle type recognition by identifying vehicle heads such as SUV, sedan, pickup, buses, vans, and various truck classes.
- Offers GPS positioning through integrated software for accurate real-time location tracking.
- 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.
- Face Detection identifies drivers, front-seat passengers, and motorcycle riders, extracting clear facial images for verification and analysis
- Built-in surge protection ensures reliable operation against voltage spikes and electrical surges



# 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			
Lens Type	Fixed focal lens, 25 mm,		
	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	Auto, Manual		
Aperture	F1.6-20/F1.8-1.9		
Illuminator			
Built-in Supplement Light Type	IR light		
Light Bead	3		
Built-in Supplement Light Range	Up to 30 m		
IR Wavelength	850 nm		
External Supplement Light	Strobe and flash light		
Video			
	50 Hz: 50 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520,		
	1920 × 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)		
	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)		
	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 64 Mbps		
Н.264 Туре	Baseline profile/Main profile/High profile		
Н.265 Туре	Main Profile		
Network			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, SNMP, 802.1X, IPv4/IPv6,		
Protocols	UDP, ISUP, 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		
User/HUSt	טף נס גם משבוש, ש משבו ובעבוש. ממוזווזושנו מנטו, טףבו מנטו, מווע משבו		

۲



	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			
Web Browser	Hik-Central Master, Hik-Central Pro, HikCentral Master Lite		
	Chrome V61+, IE9 to IE11, Firefox V40+, Edge		
mage	Coturation bricktoore contract shownoos ACC and white belongs are adjustable by		
mage 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		
mage Enhancement	BLC, 3D DNR		
nterface			
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	4 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 Det			
Coverage	Up to 3 lane(s)		
Trigger Mode	External I/O trigger/Radar trigger/Video trigger		
	License plate recognition, Vehicle type classification, Vehicle color recognition,		
Smart Function	No-plate 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,		
	America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia,		
DD Countries (Decions			
LPR Countries/Regions	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 Duraia Illusian Adalatera Ilabelistan Kumuratan Amerika Turkuranistan		
	Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia, Turkmenistan,		



No License Plate Detection	Supported			
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			
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	<ul> <li>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&amp;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 &amp; 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</li> </ul>			
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 (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			



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, 2-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. 7.40 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	
	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	
EMIC	61000-3-3: 2013 + A1: 2019/A2: 2021, EN 50130-4: 2011 + A1: 2014	
Safaty	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	
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
	Hikvision products at this level are equipped for use in areas
Top-level protection	where professional anti-corrosion protection is a 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 application
Moderate protection	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
No specific protection	where no specific anti-corrosion protection is needed.

#### Available Model

iDS-TCV900-HI/1140/H1(AF)(UHK) iDS-TCV900-HI/25/H1(UHK) iDS-TCV900-HI/25/H1(24V)(UHK) iDS-TCV900-HI/Y/1140/H1(AF)(UHK)



#### Dimension





## Accessory

Included

-



## Optional

DS-1275ZJ/HWB Hoop & Bracket	DS-1278ZJ-HWB Hoop & Bracket	DS-1701ZJ/HKB Hoop & Bracket
àw		
PAG A		

# See Far, Go Further



 Hangzhou Hikvision Digital Technology Co., Ltd. Unless otherwise agreed, Hikvision makes no warranties, express or implied. We reserve the right to introduce modifications without notice.

