

iDS-TCV500-HE 5 MP ANPR Checkpoint Capture Unit





- High quality imaging with 5 MP resolution (2/3" 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	5 MP (2/3" GMOS)		
Max. Resolution	2464 × 2056		
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON), 0 Lux with white light		
Shutter Time	8 us-20000 us		
Day & Night	24/7 color imaging		
Lens			
Lens Type	Varifocal lens, motorized lens, 11 to 40 mm		
Focal Length & FOV	11 to 40 mm, horizontal FOV 36.8° to 13.9°, vertical FOV 30.7° to 11.6°, diagonal FOV 48.0° to 18.1°		
Focus	Auto		
Aperture	F1.6		
Illuminator			
Built-in Supplement Light Type	White light		
Built-in Supplement Light Range	Up to 30 m		
Light Bead	4		
External Supplement Light	Strobe and flash light		
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		
Network			
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, SNMP, 802.1X, IPv4/IPv6, UDP, ISUP, ARP, IGMP, SMTP		
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		



Image			
Luca de Cattilona	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 interfaces		
On-board Storage	Built-in memory card slot, supporting micro SD/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 conflicted, Traffic light detector		
Basic Event	exception		
Road Traffic and Vehicle Det			
Coverage	Up to 2 lane(s)		
	License plate recognition, vehicle type classification, vehicle color recognition, no-plate		
Smart Function	vehicle capture, moving direction detection		
	Mid-East:		
	United Arab Emirates (Abu Dhabi, Fuchaiha, Dubai, Cape Haima, Ozhman, Sharjah,		
	Umgavan), Qatar, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Pakistan, Oman, Lebanon,		
	Bahrain		
	Africa:		
	Nigeria, Kenya, Cote d'Ivoire, 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, Philippines, Hong Kong, Macao, Taiwan, Burma, India, Mongolia, Cambodia,		
LPR Countries/Regions	Laos, Bangladesh		
LPN Countries/Negrons	America:		
	United States of America, Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador,		
	Bolivia, Colombia, Brazil, Ecuador, Peru, Mexico, Panama, Costa Rica, Trinidad and		
	Tobago, Dominican, Guatemala		
	Europe:		
	Turkey, Croatia, Slovakia, Czech Republic, Bulgaria, Macedonia, Hungary, Greece,		
	Poland, France, Netherlands, Switzerland, Spain, Britain, Ireland, Germany, Italy,		
	Austria, Israel, Palestine, Belgium, Luxembourg, Albania, Kosovo		
	Russian-Speaking Regions:		
	Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russian		
	Federation, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia		
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	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 Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black			
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 Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Dodge, Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC,			
	Jaguar, GMC, Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillac, JBC, An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD, Renault Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Old Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, Kia-Borrego, Chang'an, Alfa, FORO			
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 (only strobe light mode)			
Lane Change Detection	Supported (only strobe light mode)			
Phone Call Detection	Supported (with flash supplement light)			
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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		
General			
Operating System	Linux		
Power	AC 100 V to 240 V, 1.5 A, max. 27 W, 3-core terminal block		
Material	Aluminum alloy		
Dimension	636 mm × 174 mm × 146 mm (25.04" × 6.85" × 5.75") (L × W × H)		
Package Dimension	667 mm × 357 mm × 224 mm (26.26" × 14.06" × 8.82") (L × W × H)		
Weight	Approx. 6.11 kg (13.47 lb.)		
With Package Weight	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 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, Thai, 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		
EIVIC	61000-3-3:2013+A1:2019/A2:2021, EN 50130-4:2011+A1: 2014		
Safoty	CB: IEC 62368-1:2018, CB: IEC 62368-1:2014, CE-LVD: EN 62368-1:2014+A11: 2017,		
Safety	CE-LVD: EN IEC 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, IP54: IEC 60529-2013		

Typical Application

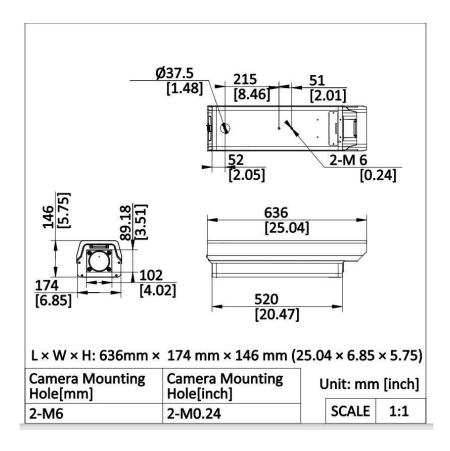
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description	
	Hikvision products at this level are equipped for use in areas where professional anti-	
Top-level protection	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





Accessory

Included



Optional

DS-1275ZJ/HWB	DS-1701ZJ/HKB	DS-1278ZJ-HWB
TOU		(A) (A) (A) (A)

See Far, Go Further



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