

iDS-TCV500-BI 5 MP IR 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), 0.0005 Lux with IR
- 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 and phone call detection.
- Application Scenarios: highway, tunnel, toll station, urban road, etc.



Specification

5 MP (2/3" GMOS)		
2464 × 2056		
Color: 0.001 Lux@ (F1.4, AGC ON), 0.0005 Lux with IR		
50 us-20000 us		
IR cut filter		
Varifocal lens, manual adjustment, 15 to 50 mm		
15 to 50 mm, horizontal FOV 42.7° to 13.7°, vertical FOV 23.4° to 7.6°, diagonal FOV		
49.7° to 15.8°		
Manual		
F1.4-C		
IR light		
3		
Up to 30 m		
850 nm		
Strobe and flash light		
_		
50 Hz: 50 fps (2464 × 2056, 2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576)		
60 Hz: 30 fps (2464 × 2056, 2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576)		
50 Hz: 50 fps (2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576)		
60 Hz: 30 fps (2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576)		
50 Hz: 50 fps (2048 × 1536, 1920 × 1080, 704 × 576)		
60 Hz: 30 fps (2048 × 1536, 1920 × 1080, 704 × 576)		
Main stream: H.265/H.264/MJPEG,		
Sub-stream: H.265/H.264/MJPEG,		
Third stream: H.265/H.264/MJPEG		
32 Kbps to 16 Mbps		
Baseline profile/Main profile/High profile		
Main Profile		
TCP/IP, ICMP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, SNMP, 802.1X, IPv4/IPv6,		
UDP, ISUP, ARP, IGMP		
Up to 6 channels		
ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP		
Up to 32 users		
3 user levels: administrator, operator and user		
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		
Micro SD/TF card (512 GB), Local storage, CVR, NVR, ANR		
iVMS-4200 (Only for live view and LPR information search), Hik-Central Master, Hik-		
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Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge		
Image			
Imago Sottings	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, HLC, 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 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,		
Dasic Everit	traffic light detector exception		
Road Traffic and Vehicle Detection	on		
Coverage	Up to 2 lane(s)		
Trigger Mode	External I/O trigger/Radar trigger/Video trigger		
Smart Function	License plate recognition, Vehicle type classification, Vehicle color recognition, No-		
Sinart runction	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,		
LPR Countries/Regions	America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia,		
Li N Countries/Negions	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		
Acquiracy (I Indox ross-reserved	Capture rate > 99%,		
Accuracy (Under recommended installation and lighting	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 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	84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford, Isuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Audi, Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lexus, Seat, Land Rover, Daihatsu, 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, Changʻan, Alfa, FORO		
License Plate Color Recognition	Customized to support		
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	100 VAC to 240 VAC, 1.5 A, max. 35 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 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		
Language	8 languages: English, Russian, Croatian, Korean, Russian, Traditional Chinese, Ukrainian, Spanish		
Heater	Supported		
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	CE-LVD: EN 62368-1: 2014/A11: 2017, CB: IEC 62368-1: 2014+A11, CB: IEC 62368-1: 2018+A11		
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.

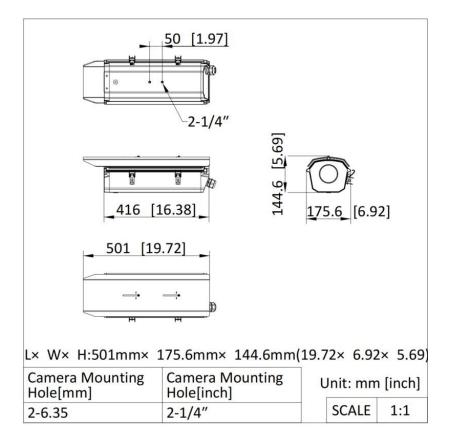
Level	Description
	Hikvision products at this level are equipped for use in
Top-level protection	areas where professional anti-corrosion protection is a
	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are 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.
N	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-TCV500-BI(F)/1550/H1(24V) iDS-TCV500-BI(F)/1550/H1



Dimension



- Accessory
- Included



Optional

DS-1275ZJ-BJH/600mm	DS-1278ZJ-HWB	DS-1701ZJ/HKB
Hoop & Bracket	Hoop & Bracket	Hoop & Bracket

Headquarters

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