

# iDS-TCV500-BE 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 & 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.
- Range/Detection distance up to 25 m

## Specification

Specification			
Camera			
Image Sensor	5 MP (2/3" GMOS)		
Max. Resolution	2464 × 2056		
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON)		
Shutter Time	50 us-20000 us		
Day & Night	24/7 color imaging		
Lens			
Lens Type	Varifocal lens, manual adjustment, 15 to 50 mm		
Focal Length & FOV	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°		
Focus	Manual		
Aperture	F1.4-C		
Illuminator			
Built-in Supplement Light Type	White light		
Light Bead	3		
Built-in Supplement Light Range	Up to 30 m		
External Supplement Light	Strobe and flash light		
Video	Strong and mashinghic		
Video	50 Hz: 50 fps (2464 × 2056, 2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576)		
Main Stream	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)		
Sub-Stream	60 Hz: 30 fps (2448 × 2048, 2048 × 1536, 1920 × 1080, 704 × 576)		
	50 Hz: 50 fps (2048 × 1536, 1920 × 1080, 704 × 576)		
Third Stream	60 Hz: 30 fps (2048 × 1536, 1920 × 1080, 704 × 576)		
	Main stream: H.265/H.265+/H.264/H.264+/MJPEG,		
Video Compression	Sub-stream: H.265/H.264/MJPEG,		
video compression	Third stream: H.265/H.264/MJPEG		
Video Bit Rate	32 Kbps to 16 Mbps		
H.264 Type	Baseline profile/Main profile/High profile		
	Main Profile		
H.265 Type	Walli Frome		
Network	TCD/ID ICAAD LITTO LITTOS FTD DNIS DTD DTCD DTCD DNTD CAIAAD 2022 AV ID-A/ID-C		
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, SNMP, 802.1X, IPv4/IPv6, UDP, ISUP, ARP, IGMP		
Simultaneous Live View	Up to 6 channels		
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP		
User/Host	Up to 32 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		
Natural Ctar	Video Interface		
Network Storage	Micro SD/TF card (512 GB), Local storage, CVR, NVR, ANR		
Client	iVMS-4200 (Only for live view and LPR information search), Hik-Central Master, Hik-Central Pro, HikCentral Master Lite		
Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge		
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Image			
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Image 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		
Image Enhancement	WDR, 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), connects to devices such as radars		
RS-232	1 RS-232 interface, con is used for serial debugging and RTG is for connecting to radars		
USB	1 USB 2.0 interface		
Event			
	HDD Error, network disconnected, IP address conflicted, vehicle detector exception,		
Basic Event	traffic light detector exception		
Road Traffic and Vehicle Detectio	n		
Coverage	Up to 2 lane(s)		
Trigger Mode	External I/O trigger/Radar trigger/Video trigger		
001	License plate recognition, Vehicle type classification, Vehicle color recognition, No-		
Smart Function	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,		
	Asia Pasific Australia New Zealand Indonesia Malaysia Singapara South Karaa		
	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,		
	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	• Minimum capture rate = 97% & 95% for 3 and 4-wheel traffic for day and night		
installation and lighting	respectively.		
conditions)	<ul> <li>Minimum capture rate = 85% &amp; 75% for motorcycle for day and night respectively.</li> </ul>		
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No License Plate Detection	Supported		
Motorcycle LPR	Supported		

ANPR	ANPR camera shall classify the vehicles captured based on color as well as vehicle type (car, motorcycle, rickshaws, vans, buses, trucks etc)		
	ANPR camera records shall contain at least the record identifier, interpreted VRM,		
	location, date & time of capture.		
	ANPR cameras shall have local storage (SD card or equivalent or better). Upon		
	disconnection of network, all data shall be stored on local storage and after		
	restoration of network, data shall be pushed to main software		
Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only.		
	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,		
Vehicle Manufacturer	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		
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)		
Mobile Phone Detection	Supported (with flash supplement light)		
Without Helmet Detection	Supported		
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		
EMC	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.

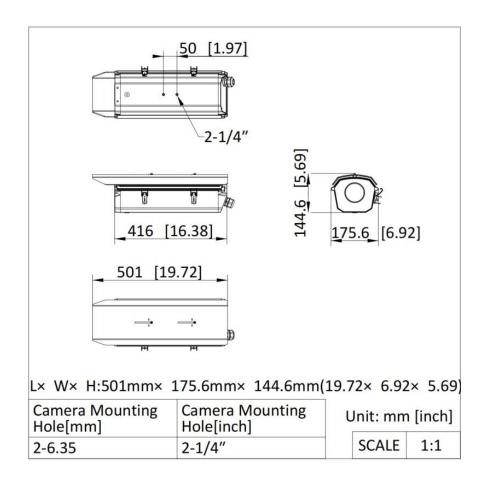
This model has NO SPECIFIC PROTECTION.

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

#### Available Model

iDS-TCV500-BE/1550/H1 iDS-TCV500-BE/1550 iDS-TCV500-BE(F)/1550/H1 iDS-TCV500-BE(F)/1550

#### Dimension





- Accessory
- Included



### Optional

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