

iDS-TCV500-BI 3 MP IR ANPR Checkpoint Capture Unit



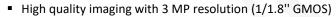












- Excellent low-light performance, Color: 0.001 Lux@ (F1.4, AGC ON), 0.0005 Lux with IR
- Efficient H.265 compression technology
- 3D DNR technology delivers clean and sharp images
- Support license plate recognition (LPR)
- Vehicle feature recognition: vehicle type/color/manufacturer/license plate color 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

Camera			
Image Sensor	3 MP (1/1.8" GMOS)		
Max. Resolution	2048 × 1536		
Min. Illumination	Color: 0.001 Lux@ (F1.4, AGC ON), 0.0005 Lux with IR		
Shutter Speed	1/50 ~ 1/100000		
Day & Night	IR cut filter, Auto		
Lens			
Lens Type	Varifocal lens, manual adjustment, motorized lens 10 to 40 mm		
	15 to 50 mm, horizontal FOV 42.7° to 13.7°, vertical FOV 23.4° to 7.6°, diagonal FOV		
Focal Length & FOV	49.7° to 15.8°		
Focus	Manual		
Aperture	F1.4-C		
Illuminator			
Built-in Supplement Light Type	IR light		
Light Bead	3 (white light)		
Built-in Supplement Light Range	Up to 30 m		
IR Wavelength	850 nm		
External Supplement Light	Strobe and flash light		
Video			
Main Stream	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)		
Sub-Stream	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)		
Third Stream	60 Hz: 30 fps (2048 × 1536, 1920 × 1080, 704 × 576)		
	Main stream: H.265/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		
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, DHCP		
Simultaneous Live View	Up to 6 channels		
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP, CGI		
, u i	Up to 32 users		
User/Host	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 Open Network		
	Video Interface		
Network Storage	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-		
Client	Central Pro, HikCentral Master Lite		



Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge		
Image			
	Saturation, brightness, contrast, sharpness, AGC, and white balance (Auto/Manual) are		
Image Settings	adjustable by client software or web browser.		
Day/Night Switch	Auto, Schedule, Manual		
SNR	60 dB		
Image Enhancement	BLC, HLC, 3D DNR (Auto/Manual)		
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	4 input interfaces (T1, SYNC), 2 output interfaces		
RS-485	2 RS-485 interfaces (half duplex, HIKVISION)		
RS-232	4 RS-232 interface		
USB	1 USB 2.0 interface		
Event			
Dacia Fuant	HDD Error, network disconnected, IP address conflicted, vehicle detector exception,		
Basic Event	traffic light detector exception		
Road Traffic and Vehicle Detection	on Control of the Con		
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-		
Smart 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,		
	America: Canada, Argentina, Chile, Paraguay, Uruguay, El Salvador, Bolivia, Colombia,		
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, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia, Turkmenistan,		
	Tajikistan		
Accuracy (Under recommended	Capture rate > 99%,		
installation and lighting	Vehicle moving direction recognition accuracy > 98.5%,		
conditions)	LPR accuracy > 98%,		
	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, 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)		
Phone Call Detection	Supported (with flash supplement light)		
Capture Speed Range	10 to 320 km/h		
Capture Distance	18 - 25 mts.		
General			
Operating System	Linux		
Power	100 VAC to 220 VAC, 1.5 A, max. 30 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	-40 °C to 80 °C (-22 °F to 158°F). Humidity: 10% to 90% (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		



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.

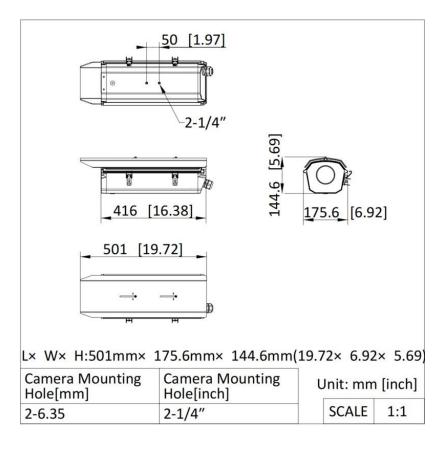
Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-level protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level 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-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
	1 00 10 10	

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T+86-571-8807-5998 www.hikvision.com

Follow us on social media to get the latest product and solution information.





HikvisionHQ



HikvisionHQ





