

iDS-TCV900-BI(FM) 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), 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	9 MP (1" GMOS × 2)		
Max. Resolution	4096 × 2160		
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON), 0.0005 Lux with IR		
Shutter Time	7 us to 30000 us		
Day & Night	IR cut filter		
Lens			
Lens Type	Fixed focal lens, 25 mm		
Focal Length & FOV	25 mm, horizontal FOV 31.6°, vertical FOV 16.9°, diagonal FOV 35.4°		
Focus	Manual		
Aperture	F1.6-C		
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: 33 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)		
Sub Street	50 Hz: 33 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576)		
Sub-Stream	60 Hz: 30 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576)		
Third Charac	50 Hz: 33 fps (1920 × 1080, 1280 × 720, 704 × 576)		
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576)		
	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 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,		
FIOLOCOIS	UDP, ISUP, ARP, IGMP		
Simultaneous Live View	Up to 6 channels		
API	ISAPI, SDK, ISUP, ONVIF (PROFILE S, PROFILE G, PROFILE T, PROFILE M)		
User/Host	Up to 32 users		
user/most	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	Micro SD/TF card (512 GB), Local storage, CVR, NVR, ANR		
Client	Hik-Central Master, Hik-Central Pro, HikCentral Master Lite		



Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge		
Image			
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	BLC, HLC, 3D DNR		
Interface			
Ethernet Interface	2 RJ-45 10 M/100 M/1000 M self-adaptive Ethernet port(s)		
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			
Basic Event	HDD Error, network disconnected, IP address conflicted, vehicle detector exception, traffic light detector exception		
Road Traffic and Vehicle Detectio	n		
Coverage	Up to 3 lane(s)		
Trigger Mode	External I/O trigger/Radar trigger/Video trigger		
Smart Function	License plate recognition, Vehicle type classification, Vehicle color recognition, No- plate vehicle capture, Moving direction detection		
LPR Countries/Regions	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, 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 installation and lighting conditions)	Capture rate > 99%, Vehicle moving direction recognition accuracy > 98.5%, 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.		
	84 manufacturers: Hyundai, Toyota, KIA, Honda, Volkswagen, Benz, Nissan, Ford,		
Vehicle Manufacturer	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		
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	5 to 300 km/h		
General			
Operating System	Linux		
Power	AC 100 V to 240 V, 2.9 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. 4.860 kg (10.714 lb.)		
With Package Weight	Approx. 6.740 kg (14.859 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, 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		
	61000-3-3: 2013+A1:2019/A2:2021, EN 50130-4: 2011+A1: 2014		
Safety	CB: IEC 62368-1: 2014, CE-LVD: EN 62368-1: 2014+A11: 2017, CB: IEC 62368-1: 2018		
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.

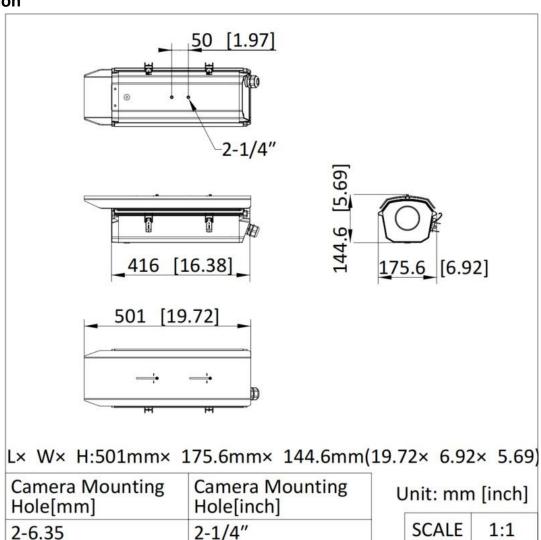


Level	Description	
	Hikvision products at this level are equipped for use in areas where professional anti-	
Top-level protection	corrosion protection is a must. Typical application scenarios include coastlines, docks,	
	chemical plants, and more.	
Moderate protection	Hikvision products at this level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

Available Model

iDS-TCV900-BI(FM)/25/H1

Dimension





Accessory

Included



Optional

DS-1278ZJ-HWB Hoop & Bracket	DS-1275ZJ/HKB Hoop & Bracket	DS-1701ZJ/HKB Hoop & Bracket
Au min min min	au	

HeadquartersNo.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





