

iDS-TCV900-BI 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)		
Max. Resolution	4096 × 2160		
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON), 0.0005 Lux with IR		
Shutter Time	50 us - 20000 us		
Day & Night	IR cut filter		
Lens			
	Fixed focal lens, 25 mm,		
Lens Type	Varifocal lens, manual adjustment, 11 to 40 mm,		
	(AF)Model: Varifocal lens, motorized lens, 11 to 40 mm		
	25 mm, horizontal FOV 32°, vertical FOV 16.8°, diagonal FOV 36.3°,		
Focal Length & FOV	11 to 40 mm, horizontal FOV 62° to 23.6°, vertical FOV 32.2° to 12.2°, diagonal FOV 70°		
	to 26.8°		
Focus	Manual, (AF) Model: Auto		
Aperture	F1.6-C/F1.6-25/F1.6		
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: 50 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920		
Main Stream	× 1200, 1920 × 1080, 1280 × 720)		
Wall Stream	60 Hz: 30 fps (4096 × 2160, 3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920		
	× 1200, 1920 × 1080, 1280 × 720)		
Sub-Stream	50 Hz: 50 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576)		
	60 Hz: 30 fps (3392 × 2008, 2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576)		
Third Stream	50 Hz: 50 fps (1920 × 1080, 1280 × 720, 704 × 576)		
	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, 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		
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		
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		
Image			
	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 RJ-45 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		
Audio	2 audio in/out		
RS-485	3 RS-485 interfaces (half duplex, HIKVISION)		
RS-232	1 RS-232 interface		
USB	1 USB 2.0 interface		
Event			
Decis French	HDD Error, network disconnected, IP address conflicted, vehicle detector exception,		
Basic Event	traffic light detector exception		
Road Traffic and Vehicle De	tection		
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, Follsuzu, BMW, Chevrolet, Mitsubishi, Renault, Opel, Suzuki, Skoda, Daewoo, Aud Mazda, GAC HINO, Peugeot, SsangYong, Citroen, Fiat, Scania, MAN, Volvo, Lex Land Rover, Daihatsu, Dongwo, Subaru, Iveco, MINI, JEEP, Porsche, Chery, Doc Chrysler, Acura, Alfa Romeo, Great Wall, Infiniti, Smart, Saic Maxus, JAC, Jagua Lincoln, JMC, SAAB, FAW, Yutong, Guangzhou Yunbao, Joylong, Geely, Cadillad An'kai, Haima, Foton, King Long, Dongfeng, Geely-Emgrand, Perodua, UD, BYD Samsung, Proton, HICOM, Malaysia_Unknown 1, Hyundai-Rohens, SsangYong-Version, Equus-Old Version, CNHTC, Rolls-Royce, Beiben Truck, Haval, Hino, King 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)	
Thoric can betection	Supported (With hash supplement light)	



General		
Operating System	Linux	
Power	AC 100 V to 240 V, 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	
Heater	Supported	
Language	8 languages: English, Russian, 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	
	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.

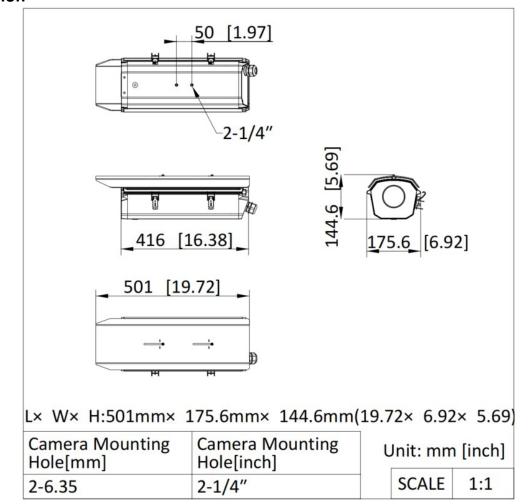
Level	Description	
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-	
	corrosion protection is a must. Typical application scenarios include coastlines, docks,	
	chemical plants, and more.	
Moderate protection	Hikvision products at this level 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.	
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(F)/25/H1(24V) iDS-TCV900-BI(F)/25/H1 iDS-TCV900-BI(F)/1140/H1 iDS-TCV900-BI(F)/1140/H1(AF)



Dimension





- Accessory
- Included



Optional

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