iDS-TCV900-FEM
9 MP 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)

- 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, Illegal lane change, wrong-way driving detection, seatbelt and phone call detection.

- Application Scenarios: highway, tunnel, toll station, urban road, etc.

▪ Specification

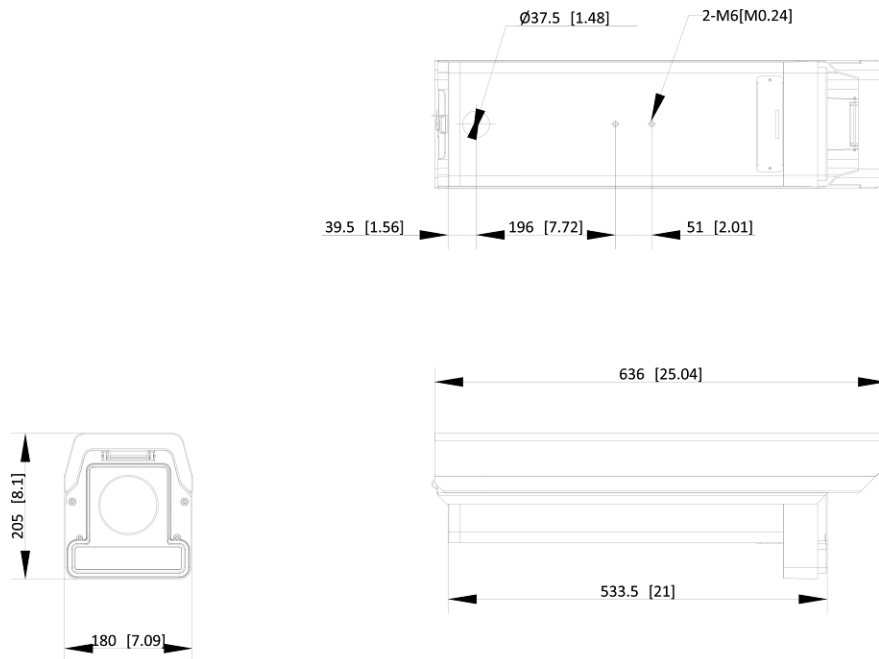| Camera	
Image Sensor	9 MP (1'' GMOS)
Max. Resolution	4096 × 2160
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON)
Shutter Time	50 us to 20000 us
Lens	
Focal Length & FOV	11 to 40 mm (Horizontal: 62° to 23.6°, vertical: 32.2° to 12.2°); 25 mm (Horizontal: 31°, vertical: 16.9°)
Focus	Manual
Aperture	F1.6-25/F1.4
Illuminator	
Built-in Supplement Light Range	Up to 27 m
External Supplement Light	External strobe/flash/solid light
Video	
Main Stream	50 Hz: 25 fps (4096 × 2160, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (4096 × 2160, 1920 × 1080, 1280 × 720)
Sub Stream	1920 × 1080, 704 × 576
Video Compression	H.264 and H.265 encoding Main stream: H.265/H.264/MJPEG Sub-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	Baseline profile/Main profile/High profile
Network	
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTP, RTSP, RTCP, NTP, IPv6, UDP
Simultaneous Live View	Up to 6 channels
API	ONVIF (Version 2.1, PROFILE S, PROFILE G), ISAPI, SDK
User/Host	Up to 32 users 3 user levels: administrator, operator and user
Security	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1)
Network Storage	MicroSD/TF card (128 GB), local storage and CVR, NVR, ANR
Client	iVMS-8600, iVMS-4200 (Only for video live view and LPR information search), Hik-Central Master, Hik-Central Pro
Web Browser	IE8-IE11, plug-in free live view supported
Image	
Image Settings	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser.
Day/Night Switch	Auto/Scheduled/Triggered by alarm in
SNR	60 dB
Image Enhancement	BLC, HLC, 3D DNR
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24-bit bmp format.
Interface	
Ethernet Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interfaces

On-board Storage	Built-in microSD/TF card, up to 128 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 Detection	
Coverage	2 to 3 lanes
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, Iran, 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, Burma, India, Mongolia, Cambodia, Laos, Bangladesh America: The United States of 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 State, Belgium, Luxembourg, Albania, Kosovo Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Uzbekistan, Kyrgyzstan, Armenia
Accuracy (Under recommended installation and lighting conditions)	Capture rate > 98% Vehicle moving direction recognition accuracy > 98.5% LPR accuracy > 98% Mistaken capture rate < 2% European and Russian-Speaking Regions: LPR accuracy > 98% Country/Region recognition accuracy > 95%
No License Plate Detection	Supported
Motorcycle LPR	Supported
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/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)
Illegal 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 250 km/h
General	
Firmware Version	V4.3.1
Operating System	Linux
Power	24 VDC ± 20%/100 to 240 VAC < 30 W
Material	Aluminum alloy
Dimension	With package: 175.68 × 137.5 × 443.99 mm (6.92" × 5.41" × 17.48")
Weight	Camera: approx. 6.5 ± 0.5 kg (14.3 ± 1.1 lb)
Operating Condition	Temperature: -40 °C to +60 °C (-40 °F to +140 °F) Humidity: 95% or less (non-condensing)
General Function	One-key reset, three streams, heartbeat, password protection, watermark
Heater	Supported
Approval	
EMC	CE, FCC
Environment	RoHS
Protection	IP67

▪ **Available Model**

iDS-TCV900-FEM(B)/25

▪Dimension

Ø37.5 [1.48]   2-M6[M0.24]

39.5 [1.56]   196 [7.72]   51 [2.01]

636 [25.04]

205 [8.1]

533.5 [21]

180 [7.09]

L × W × H: 636 mm × 180 mm × 205 mm (25.04 × 7.09 × 8.1)

Camera Mounting Hole[mm]	Camera Mounting Hole[inch]	Unit: mm [inch]	
M6	M0.24	SCALE	1:1

▪ **Accessory**

▪**Optional**

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

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