HIKVISION®

iDS-TCVC00-HEMF
12 MP DarkfighterX ANPR Checkpoint Capture Unit

- High quality imaging with 12 MP resolution (1.1" GMOS × 2)
- Excellent low-light performance, color: 0.0005 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, U-Turn, red light running, failing to yield for pedestrians, not following directional sign and stop vehicle on intersection detection.
- Application Scenarios: highway, tunnel, toll station, urban road, etc.
- Dedicated large scale AI model for seatbelt and phone call detection.

▪ Specification

Camera	
Image Sensor	12 MP (1.1'' GMOS × 2)
Max. Resolution	4112 × 3072
Min. Illumination	Color: 0.0005 Lux @ (F1.4, AGC ON), 0 Lux with white light
Shutter Time	7 us - 30000 us
Day & Night	24/7 color imaging
Lens	
Lens Type	Fixed focal lens, 50 mm
Focal Length & FOV	50 mm, horizontal FOV 16°, vertical FOV 12°, diagonal FOV 20°
Focus	Manual
Iris Type	Manual
Aperture	F1.4-16
Illuminator	
Built-in Supplement Light Type	Warm white light
Built-in Supplement Light Range	Up to 30 m
Light Bead	4
External Supplement Light	Strobe and flash light
Video	
Main Stream	60 Hz: 30 fps (4112 × 3072, 3296 × 2472, 3392 × 2008, 2560 × 1920, 2048 × 1536, 1920 × 1080, 1600 × 1200, 1280 × 720) 50 Hz: 25 fps (4112 × 3072, 3296 × 2472, 3392 × 2008, 2560 × 1920, 2048 × 1536, 1920 × 1080, 1600 × 1200, 1280 × 720)
Sub-Stream	60 Hz: 30 fps (1920 × 1080, 1600 × 1200, 1280 × 720, 704 × 576) 50 Hz: 25 fps (1920 × 1080, 1600 × 1200, 1280 × 720, 704 × 576)
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576) 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576)
Video Compression	Main stream: H.265/H.264/MJPEG, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 64 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, SMTP
Simultaneous Live View	Up to 10 channels
API	ONVIF (PROFILE S, PROFILE G, PROFILE T, PROFILE M), ISAPI, SDK, ISUP
User/Host	Up to 16 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 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 V40+, 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, 3D DNR
Interface	
Ethernet Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet interfaces
On-board Storage	Built-in memory card slot, supporting micro SD/SDHC/SDXC card, up to 512 GB
Alarm	1 input interface (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, Traffic light detector exception
Road Traffic and Vehicle Detection	
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
Coverage	Up to 2 lanes
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%
Motorcycle LPR	Supported

Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black
Vehicle Manufacturer	212 Manufacturers: AC SCHNITZER, AITO, APOLLO, Ashok Leyland, Audi, Aston Martin, Acura, Ankai, Ayvip, Alfa Romeo, Asiastar, Artega, ARCFOX, BAIC, Beiben Truck, BLUECAR, Bedford, Benz, BMW, BYD, Bufori, Buick, Bently, Brabus, Bugatti, Borgward, BONLUCK, Besturn, CADILLAC, Celis, Chevrolet, Citroen, Chery, Chrysler, Chang an, CNHTC, CHTC, Caterham, Conquest, C&C Trucks, CAMC, DAIHATSU, DMC, DS, Dacia, Dongnan, Dodge, Dongwo, Denza, Dongfeng, Daewoo, Dima, Denway, DORCEN, Eicher, Emgrand, Equss, EXEED, Ford, FORO, Fornasari, Ferrari, Fuqi, Fiat, Fisker, FQT Motor, Foton, FAW, FORLAND, FUSO, Force Motors, Fxauto, Faralli Mazzanti, GAC, Great Wall, GMC, Geely, Geometry, Hyundai, HENNESSEY, HINO, Honda, Haima, Haval, Hongqi, Isuzu, Infiniti, Iveco, IAT, IM, JAC, JBC, JEEP, Jaguar, JMC, JETOUR, JETTA, Joylong, Koenigsegg, KIA, Kia-Borrego, King Long, Kama, KTM, LEVC, Lexus, Land Rover, Lincoln, Lamborghini, Lotus, Luxgen, Levdeo, Leopaard, Lynk & Co, Lada, Leading Ideal, LEAPMOTOR, LUMMA, Lorinser, Land Wind, MAN Trucks, MAXUS, MG, MINI, Mahindra, Mitsuoka, Maserati, Meiya, McLaren, Maybach, Mazda, Morgan, Mitsubishi, Mustang, Marvel R, Maple, MANSORY, Modern, NOMA, Nissan, Norinco, Neoplan, NIO, NETA, Opel, Ora, Oushang, Perodua, Porsche, Peugeot, PGO, Proton, Pagani, Polestar, POCCO, Qoros, RAM, Rolls-Royce, Renault, Roewe, Rohens, Ranz, Ruilan, Radar, Renault Samsung, SAAB, SCANIA, SCION, SMART, SML ISUZU, Suzuki, SAIC Datong, Subaru, Skoda, Startek, Soyat, Seat, SWM, Sany, SsangYong, Sojen, Silver, SATE, SOL, Skyworth, SGMW, SITECH DEV, TATA, Tankar, Tesla, Trumpchi, Techart, Toyota, UD, UAES, Volkswagen, VINFAST, Venucia, Volvo, VOYAH, VeiculoLongo, Weltmeister, XCMG, Xinyuan, XPENG, Yutong, YAMAHA, Zhonghua, Zotye, Zhinuo, ZEEKR, Zenvo
No License Plate Detection	Supported
Vehicle Type	Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
U-Turn	Support (Only E-Police mode)
Stop Vehicle on Intersection	Support (Only E-Police mode)
Not Following Directional Sign	Support (Only E-Police mode)
Red Light Running	Support (Only E-Police mode)
Failing to Yield for Pedestrians	Support (Only E-Police mode)
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
General	
Operating System	Linux
Power	AC 180 to 240 V, 3.5 A, max. 39 W, three-core terminal block
Material	Aluminum alloy
Dimension	636 mm × 180 mm × 205 mm (25.04" × 7.09" × 8.1") (L × W × H)
Package Dimension	833 mm × 275 mm × 325 mm (32.80" × 10.83" × 12.80") (L × W × H)
Weight	Approx. 6.28 kg (13.85 lb.)

With Package Weight	Approx. 9.94 kg (21.91 lb.)
Operating Condition	-30 °C to 70 °C (-22 °F to 158 °F). Humidity 95% or less (non-condensing)
Storage Condition	-30 °C to 70 °C (-22 °F to 158 °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, 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, CB: IEC 62368-1: 2018, CE-LVD: EN 62368-1: 2020+A11: 2020
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.
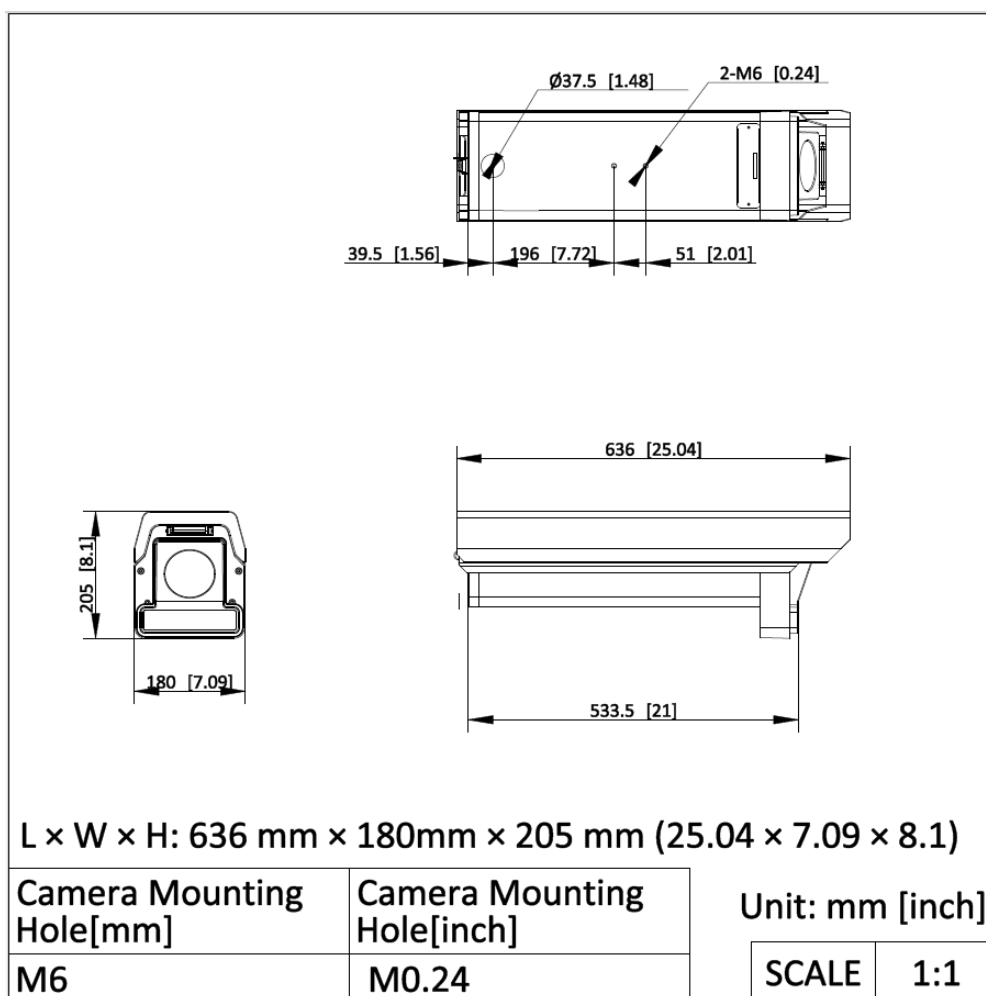
This model has NO SPECIFIC PROTECTION.

Level	Description
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-TCVC00-HEMF/50

▪ Dimension

Ø37.5 [1.48] 2-M6 [0.24]
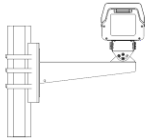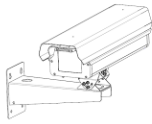
39.5 [1.56] 196 [7.72] 51 [2.01]

636 [25.04]

205 [8.1]

180 [7.09]

533.5 [21]

L × W × H: 636 mm × 180mm × 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**

▪ **Included**

DS-1232ZJ-T/BJH

▪ **Optional**

DS-1275ZJ/HWB	DS-1278ZJ-HWB	DS-1701ZJ/HKB

▪ Installation Methods

Vertical Pole Mounting DS-1275ZJ/HWB	Horizontal Pole Mounting DS-1278ZJ-HWB	Wall Mounting DS-1701ZJ/HKB

See Far, Go Further

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