iDS-TVJ860-GIR
Intelligent Light Bar



- Front/Rear Camera: Adopts 1/1.8" CMOS, Resolution: 3840 × 2160
- 2 Left Cameras and 2 Right Cameras: Adopts 1/3" CMOS, Resolution: 2688 × 1944
- Adopts red and blue LED lights.
- Adopts supplement light for the front and rear camera.
- Supports license plate recognition, radar speeding capture for vehicle, motorcycle, two-wheeler, etc.
- Supports sending captured picture to mobile enforcement video recorder.
- Meets mobile device anti-vibration requirements.

▪ Specification

Camera	
Image Sensor	Front Camera and Rear Camera:1/1.8'' Progressive Scan CMOS, Left Camera and Right Camera:1/3'' Progressive Scan CMOS
Max. Resolution	Front Camera and Rear Camera:3840×2160, Left Camera and Right Camera:2688×1944
Min. Illumination	Front Camera and Rear Camera: Color: 0.001 Lux @ (F1.2, AGC ON) Left Camera and Right Camera: Color: 0.005 Lux @ (F1.5 , AGC ON)
Shutter Time	1/25 s to 1/30000 s
Day & Night	IR cut filter
Lens	
Focal Length & FOV	Front Camera and Rear Camera: 8 mm,horizontal FOV: 37.3°, vertical FOV: 20.9°, diagonal FOV: 42.8°, Left Camera and Right Camera: 4 mm,horizontal FOV: 79.6°, vertical FOV: 43.7°, diagonal FOV:93.8°
Focus	Fixed
Iris Type	Fixed iris
Aperture	Front Camera and Rear Camera: F1.6,Left Camera and Right Camera: F2.0
Illuminator	
Built-in Supplement Light Type	IR light(only Front Camera and Rear Camera)
IR Wavelength	850 nm
Built-in Supplement Light Range	Front Camera and Rear Camera: Up to 30 m
Radar	
Working Frequency	76 to 77 GHz
Modulation Waveform	FMCW
Horizontal Detection Angle	±60°
Vertical Detection Angle	± 7°
Detection Distance	120 m
Distance Measurement Accuracy	≤ ±0.4 m
Speed Measuring Range	up to 250 km/h
Speed Measuring Accuracy	± 2 km/h
Max. Detectable Targets	Up to 64
Angle Resolution	±0.5°
Video	
Main Stream	Front Camera and Rear Camera: 50Hz(25fps)/60Hz(30fps):3840×2160,3392×2008,3072×1728,2688×1520,1920×1200,1920×1080,1280×720,704×576,352×288 Left Camera and Right Camera: 50Hz(25fps)/60Hz(30fps):2688×1944,1920×1080,1280×720,704×576,352×288

Sub-Stream	Front Camera and Rear Camera: 50Hz(25fps)/60Hz(30fps):1920×1080,1280×720,704×576,352×288 Left Camera and Right Camera: 50Hz(25fps)/60Hz(30fps):1920×1080,1280×720,704×576,352×288
Third Stream	Front Camera and Rear Camera: 50Hz(25fps)/60Hz(30fps):1280×720,704×576,352×288 Left Camera and Right Camera: None
Video Compression	Main stream: H.264/ H.265/MJPEG, Sub-stream: H.264/ H.265/MJPEG, Third stream: H.264/ H.265/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,SFTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IGMP,QoS,IPv4/IPv6,UDP,SSL/TLS,ISUP,ARP,802.1X
API	ISAPI,SDK,ISUP
User/Host	Up to 32 users
Security	Password protection,Complicated password,HTTPS encryption,802.1X authentication (EAP-PEAP, EAP-LEAP, EAP-MD5),Watermark,IP address filter,Basic and digest authentication for HTTP/HTTPS,WSSE and digest authentication for ONVIF,RTP/RTSP over HTTPS,Control timeout settings,Security audit log,TLS 1.1,Host authentication (MAC address)
Network Storage	Local storage,CVR,ANR
Web Browser	Chrome 89.0+, Edge
Wireless (Wi-Fi)	
Encryption Mode	WPA-PSK/WPA2-PSK
Wi-Fi Protocol	802.11ac
Frequency Range	5.2 GHz
Transfer Rate	11ac: up to 300 Mbps
Wireless (Mobile Communication)	
Frequency	LTE FDD: Band 1/3/5/8 LTE TDD: Band 38/39/40/41 WCDMA/HSPA+: Band 1/8 TD-SCDMA: Band 34/39 GSM/GPRS/EDGE: 900/1800MHz
Standard	LTE-TDD,LTE-FDD,EVDO,GPRS,CDMA,GSM,EDGE
SIM Card Type	Nano SIM
Image	
Image Settings	Saturation,Brightness,Contrast,Sharpness,Gain,White balance,Adjustable by client software or web browser.
Day/Night Switch	Auto,Schedule,Alarm Trigger
Wide Dynamic Range (WDR)	140 dB
Image Enhancement	3D DNR

Supplement Detection (Satellite Positioning)	
Satellite Positioning	GPS
Interface	
Ethernet Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port(s)
Alarm	1 input(s),1 output(s)
USB	1 × USB 3.0 (5.0 V, 1.0 A)
Event	
Basic Event	HDD error,Network disconnected,IP address conflict
Road Traffic and Vehicle Detection	
Trigger Mode	Video trigger
Speeding	Supported
Without Helmet	Customized to support
Manned Non-Motor Vehicle	Customized to support
Blocklist and Allowlist	Max. 500,000 records
Coverage	Up to 3 lane(s)
Smart Function	Front Camera and Rear Camera: License plate recognition, Vehicle type classification, color identification, no-plate vehicle capture, vehicle driving direction detection, Left Camera and Right Camera: License plate recognition, Motorcycle helmet detection and Manned motorcycle detection (Optional)
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 > 95%, Vehicle moving direction recognition accuracy >98.5%, LPR accuracy >95%, Mistaken capture rate < 5%
No License Plate Detection	Supported
Motorcycle LPR	Supported

Vehicle Type	Car,Van,Bus,Truck,Light Truck,SUV(MPV),Pickup,Motorcycle,Tricycle, (Only the front and rear cameras support)
Vehicle Color	Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black Recognizable at daytime only., (Only the front and rear cameras support)
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
Capture Speed Range	up to 250 km/h (Only the front and rear cameras support)
Face Detection	
Face Capture	Detects up to 40 faces simultaneously, Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°, Uploads face with background and closed-up face pictures
Face Comparison	Front Camera and Rear Camera:Up to 10 face libraries. Up to 10,000 faces for each library. 100,000 faces in total, Left Camera and Right Camera:Up to 1 face libraries. Up to 5,000 faces for each library. 5,000 faces in total, Supports face library encryption
General	
Operating System	Linux
Power	DC12V~DC14V, 18.3A,max. 220W,bare wire
Material	Aluminum alloy,PC plastics
Dimension	1128.7 mm × 360 mm × 232 mm (44.4" × 14.2" × 9.1") (L × W × H)
Package Dimension	1338 mm × 492 mm × 443 mm (52.7" × 19.4" × 17.5") (L × W × H)
Weight	Approx. 34.5 kg (76.1 lb.)
With Package Weight	Approx. 36.7 kg (80.9 lb.)
Operating Condition	-30 °C to 70 °C (-22 °F to 158 °F). Humidity 95% or less (non-condensing)

Storage Condition	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (Non-condensing)
General Function	Password protection,One-key reset,Heartbeat
Storage	1TB SSD (Supports up to 2*2TB 2.5-inch SSD)
Approval	
RF	CE-RED: EN 301 091-1 V2.1.1;301 489-1 V2.2.3;301 489-51 V2.1.1 ;50130-4:2011+A1:2014;55032:2015+A1:2020+A11:2020; 55035:2017+A11:2020;61010-1:2010+A1:2019;IEC 61326-1:2021;IEC 62311:2020
EMC	CE-EMC: EN 50130-4:2011+A1:2014;55032:2015+A11:2020+A1:2020;55035:2017+A11:2020;IEC 61326-1:2021
Safety	CB: IEC 61010-1:2010;IEC 61010-1:2010/AMD1:2016;CE-LVD: EN 61010-1:2010+A1:2019
Environment	CE-RoHS: EN IEC 63000:2018,WEEE: 2012/19/EU,Reach: Regulation (EC) No 1907/2006

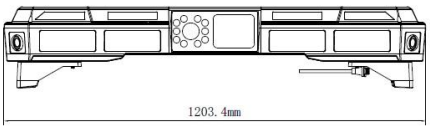
▪ Typical Application

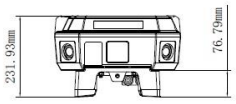
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

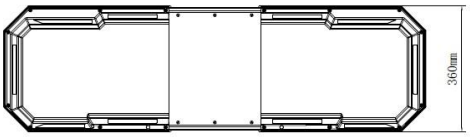
This model has NO SPECIFIC PROTECTION.

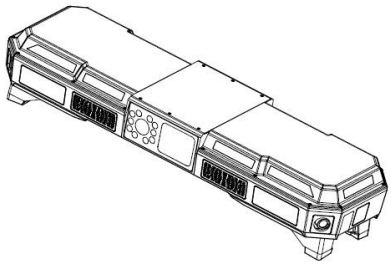
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped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

▪ Dimension









▪ Accessory

▪ Included

DS-MDP002(B)	DS-TP50-09H
	

See Far, Go Further

www.hikvision.com
support@hikvision.com

© Hangzhou Hikvision Digital Technology Co., Ltd. Unless otherwise agreed, Hikvision makes no warranties, express or implied. We reserve the right to introduce modifications without notice.

HIKVISION®