

iDS-TCM441-HI 4 MP Dual-sensor IR Smart Monitoring Camera



- Dual-lens 4 MP resolution (1/1.8" CMOS).
- Adopt dual-channel design so you can get details in channel 2 and panorama view in channel 1.
- Supports the adjustment of lens angle. Channel 1: 8 ~ 32 mm, PT: $\pm 10^\circ$; channel 2: 10 ~ 50 mm, PT: $\pm 10^\circ$.
- Adopt dual-channel design so you can configure the intelligent functions as needed.
- Clear imaging against strong back light due to 140 dB WDR technology.
- Supports H.265 and H. 264 output stream and MJPEG encoding.

▪ Specification

Camera	
Image Sensor	2 sensors, 1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Time	70 to 40000 μs
Day & Night	IR cut filter
Lens	
Focal Length & FOV	Channel 1: 8 to 32 mm, horizontal FOV 42.6° to 15.1°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.8° to 17.3°, Channel 2: 10 to 50 mm, horizontal FOV 33.4° to 8.8°, vertical FOV 18.7° to 4.9°, diagonal FOV 38.4° to 10.1°
Focus	Auto
Iris Type	Auto-iris: DC drive
Aperture	8-32mm: F1.7 10-50mm: F1.7-2.0
Illuminator	
Built-in Supplement Light Type	IR light
Supplement Light Number	7
Built-in Supplement Light Range	Up to 50 m
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Sub-Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 276, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Third Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 576, 352 × 288)
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 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
Simultaneous Live View	Up to 10 channels
API	ISAPI, SDK, ISUP, ONVIF (PROFILE S, PROFILE G, PROFILE T, PROFILE M)
User/Host	Up to 16 users, 3 user levels: administrator, operator, and user

Security	Password protection, Complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5; EAP-LEAP; EAP-PEAPv), 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 1.2; 1.3, Host authentication (MAC address)
Network Storage	Local storage, CVR, NVR, ANR, Micro SD/TF card (1TB)
Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge
Image	
Image Settings	Saturation, Brightness, Contrast, Sharpness, Gain, White balance, AGC, Adjustable by client software or web browser.
Day/Night Switch	Schedule, Auto, Manual
Wide Dynamic Range (WDR)	140 dB
Image Enhancement	BLC, 3D DNR
Interface	
Ethernet Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port(s)
On-Board Storage	Built-in memory card slot, supporting microSD/SDHC/SDXC card, up to 1 TB
Alarm	1 input(s), 1 output(s)
RS-485	1 RS-485
Road Traffic and Vehicle Detection	
Coverage	Up to 3 lane(s)
Smart Function	Smart mode: License plate recognition, Vehicle type classification, Vehicle color recognition, Vehicle Make recognition, Motorcycle helmet detection, Manned motorcycle detection Traffic flow detection: average speed, traffic flow, queuing length, and traffic status Incident detection: congestion, stopped vehicle, lane change, wrong-way driving, speeding, low-speed driving
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.
Vehicle Manufacturer	212 Manufacturers: AC SCHNITZER, AITO, APOLLO, Ashok Leyland, Audi, Aston Martin, Acura, Ankai, Ayvip, Alfa Romeo, Asiarstar, Artega, ARCFOX, BAIC, Beiben Truck, BLUECAR, Bedford, Benz, BMW, BYD, Bufori, Buick, Bentley, 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, Equus, EXEED, Ford, FORO, Fornasari, Ferrari, Fuji, 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	5 to 120 km/h
Face Detection	
Face Capture	Channel 2 supported 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
General	
Power	DC 36 V ±20%, 1.2 A, max. 42 W, two-core terminal block
Material	ADC+PC
Dimension	373 mm × 212 mm × 165 mm (14.67" × 8.32" × 6.5") (L × W × H)
Package Dimension	505 mm × 422 mm × 360 mm (19.88" × 16.61" × 14.17") (L × W × H)
Weight	Approx. 2.9 kg (6.40 lb.)
With Package Weight	Approx. 6.4 kg (14.1 lb.)
Operating Condition	-30 °C to 70 °C (-22 °F to 158 °F). Humidity: 5% to 95% (non-condensing)
Storage Condition	-30 °C to 70 °C (-22 °F to 158 °F). Humidity 95% or less (non-condensing)

General Function	One-key reset,Three streams,Privacy mask,Heartbeat>Password protection
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	CB: IEC 62368-1: 2018,CE-LVD: EN 62368-1: 2014+A11: 2017
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

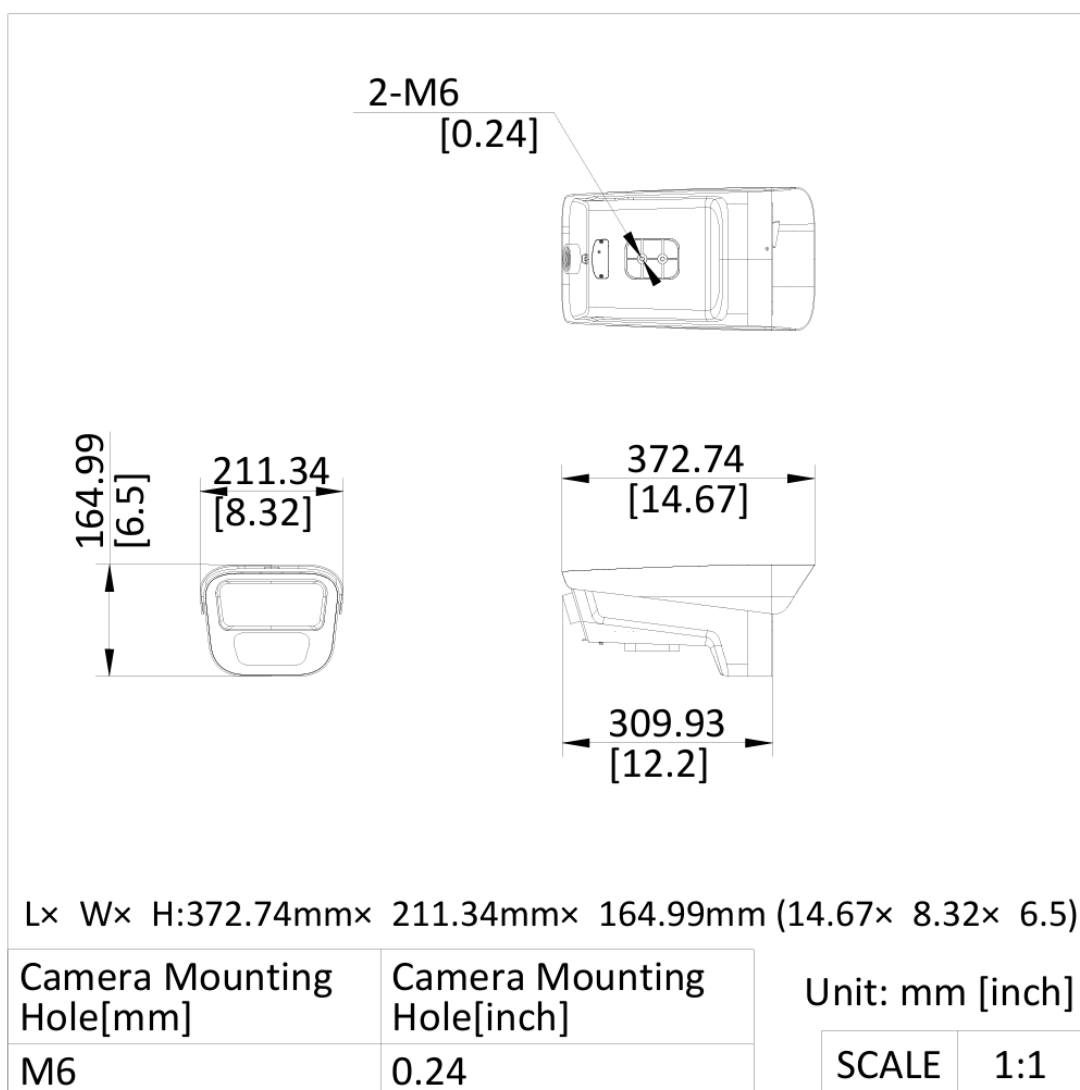
▪ Typical Application

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.

▪ Dimension



▪ **Accessory**

▪ **Included**

DS-1232ZJ-T/BJH



▪ **Optional**

DS-1278ZJ-BJH	DS-1701ZJ/BJH	DS-1275ZJ-BJH/127mm	DS-1275ZJ-BJH/600mm
A black metal mounting bracket with a rectangular top plate and four curved, spring-like supports at the bottom.	A black metal mounting bracket with a rectangular top plate and a single, straight, horizontal support arm at the bottom.	A black metal mounting bracket with a rectangular top plate and four curved, spring-like supports at the bottom, similar to the DS-1278ZJ-BJH model.	A black metal mounting bracket with a rectangular top plate and four curved, spring-like supports at the bottom, similar to the DS-1278ZJ-BJH model.

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