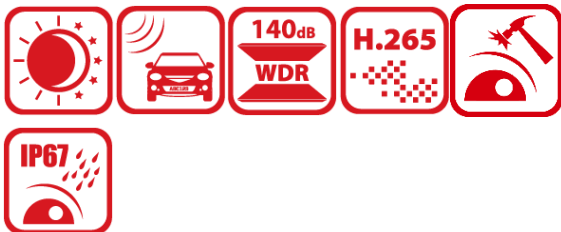


DS-TCG406-E(S) 4 MP Access ANPR Camera

DarkFighter ✦



- 1/1.8" progressive scan CMOS.
- Up to 2688 × 1520 resolution with real-time video.
- 4 built-in high-performance LEDs (integrated white light and IR).
- 2.8 to 12 mm motorized vari-focal lens. 6
- Supports relay output to control vehicle barrier gate.
- Supports Wiegand, connectable with access control system.
- Supports loop triggering, radar triggering, and video triggering LPR.
- Supports multi-frame LPR, improving LPR rate.
- Supports dirty license plate recognition.
- Equipped with vehicles passing detection algorithm to realize auto switch of barrier gate normally open mode during continuous vehicles passing and improve passing efficiency.
- Supports vehicle type, vehicle color, and vehicle brand recognition.
- Integrated shield, lights, and TF card slot (up to 1 TB).
- Up to 100,000 blocklist and allowlist.
- Supports offline control of barrier gate under allowlist mode.
- Supports a variety of installation methods: pole mounting, wall mounting, pendant mounting, and universal joint installation. Equipped with concealed wire box.
- Adopts entrance and exit dedicated exposure algorithm to adapt to the front/back light and inconsistent front and rear license plates scenes to improve LPR accuracy.

• Specification

Lens		
Lens Type	2.8 to 12 mm	
Aperture	2.8 to 12 mm: F1.2 to F2.5	
Focal Length & FoV	2.8 to 12 mm, horizontal FoV: 114.5° to 41.8°, vertical FoV: 59.3° to 23.6°, diagonal FoV: 141.1° to 48°,	
Focus	Auto, Vari-focal lens, motor-driven lens	
Supplement Light		
Supplement Light Type	IR Light, Warm White Light	
Supplement Light Range	Video: 2.8 mm to 12 mm: 25 m Vehicle License Plate: 2.8 mm to 12 mm: 10 m	
IR Wavelength	Warm White Light 3000 K, IR Light 850 nm	
Capture Mode		
Trigger Type	Video Detection, I/O Coil, Radar Mixed Traffic	
Picture Type	Scene Picture, Scene Picture + Close-up Picture	
Scene Mode	Entrance & Exit Toll Gate, Underground Parking Entrance & Exit	
Capture Type	Strobe Light Mode	
Capture Parameters		
Image Format	JPEG	
Capture Resolution	2688 × 1520	
License Plate Recognition	Forward, Backward, Bidirection	
LED Control	Supports automatic light control/time control of LEDs	
Smart Recognition	ANPR, Motor Vehicle Feature, Vehicle Color Recognition, Enable Vehicle Manufacturer Recognition	
Capture Picture Overlay	Location, Capture Time, Plate Number, Capture No., Vehicle Color Vehicle Type	
Image		
WDR		140 dB
Main Stream	1,2	50 Hz: 50 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream		50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Image Settings		Saturation: 0 to 100 Brightness: 0 to 100 Contrast: 0 to 100 Gain: 0 to 100 3D DNR: Off, Normal, and Expert modes are selectable. White balance: White Balance 1 and White Balance 2 are selectable.
Image Parameters Switch		Yes
WDR Switch		On, Time, Brightness
Frame Rate		25 fps (P)/30 fps (N)
Entrance and Exit		
Barrier Gate Control Mode		By Camera/Platform/Mixed
Keep Boom Pole Open for Following Vehicle		Enable/Disable

Lock Barrier Gate for Large-Sized Vehicle	Yes
Relay Output	2-ch relay output, supporting opening and closing of barrier gates
Barrier Gate Status	None, Barrier Gate Close In Place, Barrier Gate Open In Place, Remote Control Open In Place
Allowlist and Blocklist	Up to 100,000 allowlist and blocklist totally
Video	
ROI	8 regions respectively for main stream and sub-stream, 6 levels for each region.
Video Compression	10,12 Main stream: H.265/H.264/MJPEG, Sub-stream: H.265/H.264/MJPEG,
H.264 Type	Low profile Medium profile High Profile
Video Bit Rate	32 Kbps to 16 Mbps
Bit Rate Type	Constant, Variable
Scalable Video Coding (SVC)	H.265 and H.264 encoding
Network	
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Protocol	17 TCP/IP, ICMP, HTTP, HTTPS, FTP Upload Picture, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SNMP, IGMP, IEEE 802.1X, QoS, 13 IPv4, IPv6, UDP, SSL/TLS, WebSocket
API	11 ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP, Otap, Guarding Vision Platform 19
Client	Hik-Connect, Hik-Central, SDKdemo, PMS
Web Browser	Plug-in required live view: IE10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+
Security	Password protection, complicated password, HTTPS encryption, watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2
Interface	
Audio	1 input (line in), 1 output (line out)
Alarm Input	3-ch triggered inputs
Alarm Output	1-ch alarm output
Wiegand	Supported: CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit
RS-232	1-ch RS-485 serial port
RS-485	1-ch RS-232 serial port
Network Interface	16 1 RJ45 10M/100M Base-T self-adaptive Ethernet port
Memory Card Slot	18 1 TF card slot, up to 1 TB
Camera	
Max. Resolution	2688 × 1520
Sensor Type	5 1/1.8" Progressive Scan CMOS
Min. Illumination	4 Color: 0.0005 Lux @ (F1.2, AGC ON) B/W: 0.0001 Lux @ (F1.2, AGC ON) 0 Lux with IR
Shutter	1/30 s to 1/100,000 s

Day/Night Switch		Supported
IR Cut Filter	3	IR cut filter Blue glass module to reduce ghost phenomenon
Smart Function		
Basic Event	7	Motion detection
Smart Event	8	Intrusion detection, Line crossing detection, Object remove detection
LPR Accuracy		Accuracy (Under recommended installation and lighting conditions): License plate recognition rate $\geq 98.5\%$ Capture rate $\geq 99\%$ Driving direction accuracy rate $\geq 98\%$
Vehicle Type Recognition		Car/Van/Bus/Truck/Light Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Vehicle Color		Red, Yellow (including orange, golden), Green, Cyan, Blue, Purple, Pink, Brown, White, Gray (including silver), Black
Vehicle Brand		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

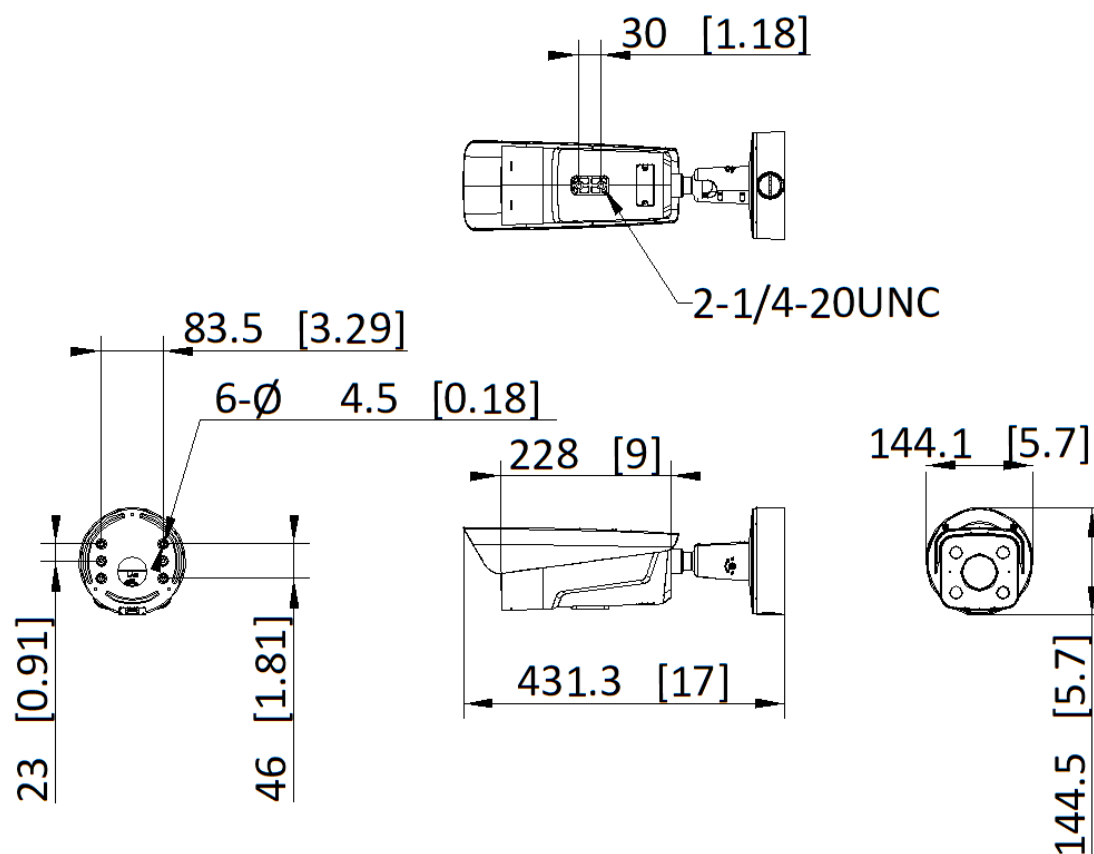
ANPR Supported Country/Region	6 areas (Asia, Africa, America, Europe, Oceania, Russian-Speaking Regions) and more than 130+ countries/regions (Statistical quantity includes baseline version and customized version.) Asia: Hong Kong(China), Macau(China), Taiwan(China), Japan, South Korea, Mongolia, Indonesia, Myanmar, Vietnam, the Philippines, Thailand, Laos, Cambodia, Malaysia, Singapore, Pakistan, Sri Lanka, Nepal, India, Bangladesh, Qatar, Kuwait, Oman, Saudi Arabia, Bahrain, Lebanon, Jordan, Iraq, United Arab Emirates, Dubai, Fujairah, Al Ain, Abu Dhabi, Ajman, Sharjah, Umm Al Qwain, Yemen Africa: Egypt, Libya, Tunisia, Algeria, Morocco, Nigeria, Senegal, Ivory Coast, Ghana, Kenya, Tanzania, Uganda, Ethiopia, South Africa, Namibia, Zimbabwe, Zambia, Cameroon, Angola, Mauritius, Sierra Leone America: Canada, Mexico, Panama, Costa Rica, El Salvador, Guatemala, Trinidad and Tobago, Dominican Republic, Argentina, Brazil, Chile, Colombia, Peru, Ecuador, Paraguay, Uruguay, Bolivia, Venezuela, Suriname Europe: Italy, Spain, Portugal, Greece, Croatia, Slovenia, Montenegro, Albania, the Republic of North Macedonia, Serbia, Bosnia and Herzegovina, Bulgaria, Romania, Malta, San Marino, Andorra, Germany, Poland, Czech Republic, Slovakia, Hungary, Austria, Switzerland, Liechtenstein, France, the UK, Ireland, Netherlands, Belgium, Luxembourg, Sweden, Denmark, Finland, Iceland, Lithuania, Israel, Palestine, Kosovo, Cyprus, Turkey Oceania: Australia, New Zealand Russian-Speaking Regions: Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Azerbaijan, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Armenia, Turkmenistan, Belarus
Approval	
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EEN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014); KC (KN 32: 2015, KN 35: 2015)
Security	20 CB (IEC 62368-1: 2014 + A11); CE-LVD (EN 62368-1: 2014/A11: 2017); BIS (IS 13252 (Part 1): 2010/IEC 60950-1: 2005);
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
General	
	16
Power Supply	12 to 24 VDC/ PoE (IEEE 802.3af, 44 V to 57 V) , 300 mA to 230 mA
Working Consumption	10 W Max.
Dimensions	415 mm × 145 mm × 145 mm (16.34 × 5.71 × 5.71 inch)
Protection	IK10 (IEC 62262: 2002), IP67 (IEC 60529-2013)
Weight	3.25 kg (7.17 lb.) 14
Weight (with Package)	4.3 kg (9.48 lb.)
Package Size	465 mm × 200 mm × 198 mm (18.31 × 7.87 × 7.80 inch)
Storage Conditions	Temperature: -20 °C to 70 °C (- 4°F to 158 °F)
	Humidity: 95% (non-condensing)

Startup and Operating	15	Temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Conditions		Humidity: 95% (non-condensing)
Language		33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian

▪ Available Model

DS-TCG406-E(S)(12V/PoE)(2812)

▪ Dimension



▪ Accessory

▪ Optional

DS-1476ZJ-SUS/BJZ	L1500-X800-R125	DS-1475ZJ-SUS/BJZ	L700-R125
			

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