

## DS-TCG405-E(S) 4MP ANPR Intelligent Entrance Video Unit

**DarkFighter** ✦



- 1/1.8" Progressive Scan CMOS
- Up to 2688 × 1520 resolution with real-time video
- 2x high-performance LEDs (integrated white light and IR)
- 2.8 to 12 mm motorized vari-focal lens
- Support relay output to control vehicle barrier
- Support loop triggering or radar triggering
- Support multi-frame LPR
- Support quick pass of multiple vehicles
- Support vehicle type, vehicle color and vehicle brand recognition
- Integrated shield, lights, TF Card (up to 1 T)
- Up to 100,000 allowlists and blocklists
- Offline control
- PoE (802.3af)
- One-touch focus
- Manual capture and ANPR

## ▪ Specification

<b>Lens</b>	
Aperture	2.8 to 12 mm: F1.2 to F2.5
Focal Length & FoV	2.8 to 12 mm, horizontal FoV: 113.5° to 39°, vertical FoV: 58.4° to 22.7°, diagonal FoV: 141.3° to 44.3°
Focus	Auto, Vari-focal lens, motor-driven lens
<b>Supplement Light</b>	
Supplement Light Type	IR Light, Warm White Light
Supplement Light Range	Video: 2.8 mm to 12 mm: 20 m Vehicle License Plate: 2.8 mm to 12 mm: 10 m
IR Wavelength	Warm White Light 3000 K, IR Light 850 nm
<b>Capture Mode</b>	
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
<b>Capture Parameters</b>	
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
<b>Image</b>	
WDR	140 dB
Main Stream	50 Hz: 25 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)
<b>Entrance and Exit</b>	
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
<b>Video</b>	
ROI	8 regions respectively for main stream and sub-stream, 6 levels for each region.
Video Compression	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
<b>Network</b>	
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	TCP/IP, ICMP, HTTP, HTTPS, FTP Upload Picture, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SNMP, IGMP, QoS, IPv6, UDP, SSL/TLS, WebSocket
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP, Otap, Guarding Vision Platform
Client	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
<b>Interface</b>	
Audio	1 input (line in), 1 output (line out)
Communication Mode	1 RJ45 10M/100M Ethernet port
Alarm Input	3-ch triggered inputs
Alarm Output	1-ch alarm output
Wiegand	Not support
RS-232	1-ch RS-485 serial port
RS-485	1-ch RS-232 serial port
Network Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Memory Card Slot	1 TF card slot, up to 1 TB
<b>Camera</b>	
Sensor Type	1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.0005Lux@(F1.47, AGC ON) B/W: 0.0001Lux@(F1.47, AGC ON)
Shutter	1/30 s to 1/100,000 s

Day/Night Switch	Supported
IR Cut Filter	IR cut filter Blue glass module to reduce ghost phenomenon
<b>Smart Function</b>	
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

<p>ANPR Supported Country/Region</p>	<p>6 areas ( Asia, Africa, America, Europe, Oceania, Russian-Speaking Regions) and more than 130+ countries/regions ( Statistical quantity includes baseline version and customized version. )</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>Oceania: Australia, New Zealand</p> <p>Russian-Speaking Regions: Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Azerbaijan, Georgia, Estonia, Latvia, Russia, Ukraine, Moldova, Armenia, Turkmenistan, Belarus</p>
<p><b>Approval</b></p>	
<p>EMC</p>	<p>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)</p>
<p>Security</p>	<p>CB (IEC 62368-1: 2014 + A11); CE-LVD (EN 62368-1: 2014/A11: 2017); BIS (IS 13252 (Part 1): 2010/IEC 60950-1:2005);</p>
<p>Environment</p>	<p>CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)</p>
<p><b>General</b></p>	
<p>Working Temperature &amp; Humidity</p>	<p>-25°C to 70°C (-13°F to 158°F) 90% or less (non-condensing)</p>
<p>Power Supply</p>	<p>12 VDC/PoE (802.3af, 44 V to 57 V), 220 VAC</p>
<p>Working Consumption</p>	<p>10 W Max.</p>
<p>Dimensions</p>	<p>415 mm × 145 mm × 145 mm (16.34 × 5.71 × 5.71 inch)</p>
<p>Protection</p>	<p>IP67; IK10</p>
<p>Weight</p>	<p>3.25 kg (7.17 lb.)</p>
<p>Weight (with Package)</p>	<p>4.3 kg (9.48 lb.)</p>
<p>Dimensions (with Package)</p>	<p>480 × 435 × 205 mm (18.90 × 17.13 × 8.07 inch)</p>

Storage Conditions	Temperature: -20 °C to 70 °C (- 4°F to 158 °F) Humidity: 95% (non-condensing)
Startup and Operating Conditions	Temperature: -30 °C to 70 °C (-22 °F to 158 °F) 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-TCG405-E(S)(12V/Poe)(MOD)

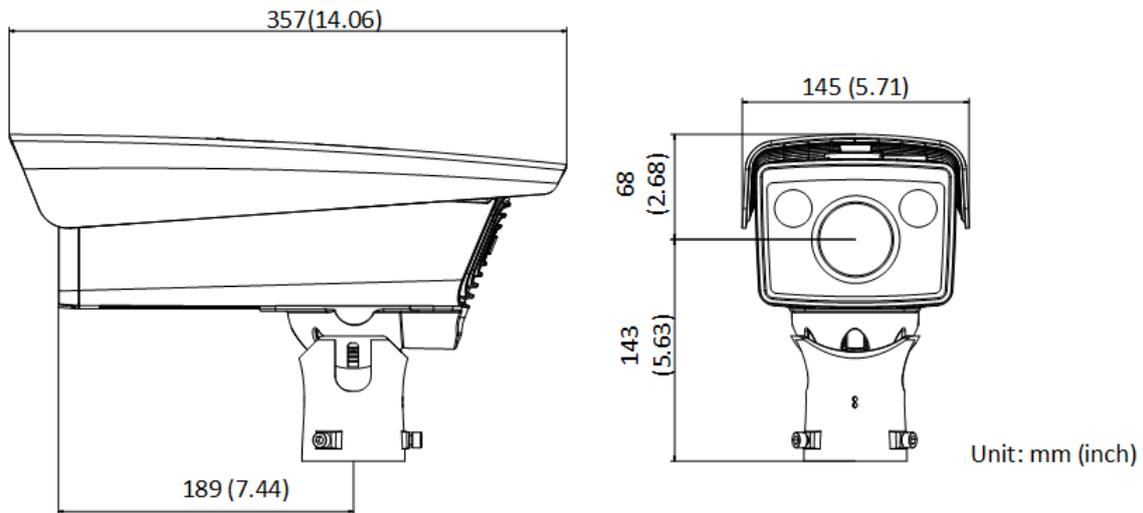
DS-TCG405-E(S)(12V/Poe)

DS-TCG405-E(S)

DS-TCG405-E(12V)

DS-TCG405-E(S)(220V)

▪ **Dimension**



▪ **Accessory**

▪ **Optional**

DS-1701ZJ/BJH	DS-1701ZJ/HKB	DS-1701ZJ/HWB	DS-1275ZJ/HWB	L2500-X1300-R117
				
DS-1232ZJ-T	L1300-R117			
				

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