

iDS-TCM403-GIR

4 MP Radar-Assisted ANPR Bullet Camera













- High quality imaging with 4 MP resolution(1/1.8" CMOS)
- Built-in 77GHz high frequency millimeter wave radar
- Clear imaging against strong back light due to 140 dB WDR technology
- Built-in ANPR engine, equipped with AI algorithm
- Efficient H.265+ compression technology to save bandwidth and storage
- Water and dust resistant (IP67) and vandal proof (IK10)



Specification

Camera					
Image Sensor	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	1/25 s to 1/100,000 s				
Day & Night	IR cut filter				
Lens					
Focal Length & FOV	2.8 to 12 mm: Horizontal: 113.5° to 39°, Vertical: 58.4° to 22.7°, Diagonal: 141.3° to 44.3°				
Tocal Length & TOV	8 to 32 mm: Horizontal: 41.9° to 15.1°, Vertical: 22.9° to 8.64°, Diagonal: 48.8° to 17.3°				
Focus	Auto				
Iris Type	DC-IRIS				
Aperture	2.8 to 12 mm: F1.38,				
Aperture	8 to 32 mm: F1.7				
Illuminator					
Built-in Supplement	IR light				
Light Type	in light				
Supplement Light	3				
Number	3				
Built-in Supplement	Up to 50 m				
Light Range	ορ to 30 m				
IR Wavelength	850 nm				
Radar					
Working Frequency	77 GHz				
Modulation	FMCW				
Waveform	Tiview				
Detection Distance	Up to 50 m				
Speed Measuring	up to 120 km/h				
Range	up to 120 km/m				
Horizontal Detection	± 22°				
Angle					
Vertical Detection	± 10°				
Angle	110				
Speed Measuring	± 2 km/h				
Accuracy	2 Z KNIJ N				
Coverage Lanes	Up to 3 lane(s)				
Video					
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 760, 704 × 576, 352 × 288)				
Wall Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 760, 704 × 576, 352 × 288)				
Sub-Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 760, 704 × 576, 352 × 288)				
	60 Hz: 30 fps (1920 × 1080, 1280 × 760, 704 × 576, 352 × 288)				
Third Stream	50 Hz: 25 fps (1280 × 760, 704 × 576, 352 × 288)				
	60 Hz: 30 fps (1280 × 760, 704 × 576, 352 × 288)				
	H.264 and H.265 encoding				
Video Compression	Main stream: H.265/H.264/MJPEG				
	Sub-stream: H.265/H.264/MJPEG				



32 Kbps to 16 Mbps				
Baseline profile/Main profile/High profile				
Main profile				
G.711/G.722.1				
8Kbps (G.711) /16Kbps (G.722.1)				
ONDP3 (G.711) / 10NDP3 (G.722.1)				
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				
Up to 6 channels				
ISAPI, SDK, ISUP, ONVIF (PROFILE S, PROFILE G, PROFILE T, PROFILE M)				
Up to 32 users				
3 user levels: administrator, operator, and user				
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 1.2, 1.3, Host authentication (MAC address)				
Micro SD/TF card (512 GB), local storage and CVR, NVR, ANPR				
Chrome V61+, IE9 to IE11, Firefox V41+, Edge				
Saturation, Brightness, Contrast, Sharpness, Gain, White balance, AGC, Adjustable by client software				
or web browser.				
Auto/Scheduled/Manual				
140 dB				
BLC, 3D DNR				
1 RJ45 10M/100M/1000M Ethernet interface				
Built-in memory card slot, supporting microSD/SDHC/SDXC card, up to 512 GB				
Supported				
1 input interface, 1 output interface, 2 relays				
1 RS-485 interface				
1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit)				
HDD error, Network disconnected, IP address conflict				
le Detection				
Up to 3 lane(s)				
License plate recognition				
Vehicle type classification, color identification, no-plate vehicle capture, vehicle driving direction				



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				
A	, -,				
Accuracy (Under	Capture rate > 99%,				
recommended installation and	Vehicle moving direction recognition accuracy > 98.5%,				
lighting conditions)	LPR accuracy > 98%, Mistaken capture rate < 2%				
No License Plate	Wistaken capture rate × 270				
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	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				
Capture Speed Range	5 to 120 km/h				
General					
Operating System	Linux				
Power	12 VDC to 24 VDC, 1.25 A, max. 15 W, two-core terminal block, PoE: 802.3at, Type 2, Class 4, max. 15 W				
Material	Aluminum alloy				
Dimension	429.5 mm × 120 mm × 184.2 mm (16.9" × 4.72" × 7.3") (L × W × H)				
Package Dimension	520 mm × 408 mm × 213 mm (20.5" × 16.1" × 8.4") (L × W × H)				
Weight	Approx. 2.3 kg (5.07 lb.)				
With Package Weight	Approx. 4.8 kg (10.58 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	One-key reset, three streams, heartbeat, password protection, watermark				
Language	8 languages: English, Thai, Croatian, Korean, Russian, Traditional Chinese, Ukrainian, Spanish				
Approval					
RF	EN 301 489-1 V2.2.3, EN 301 489-51 V2.1.1, EN 301 091-1 V2.1.1, EN IEC 62311;2020				
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: 2014+A11, CB: IEC 62368-1: 2018 + A11, 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				
Anti-Corrosion	V. NEMA AV (NEMA 250 2019)				
Protection	-Y: NEMA 4X (NEMA 250-2018)				

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.

/Y model: This model has MODERATE PROTECTION.

Without /Y model: This model has NO SPECIFIC PROTECTION.

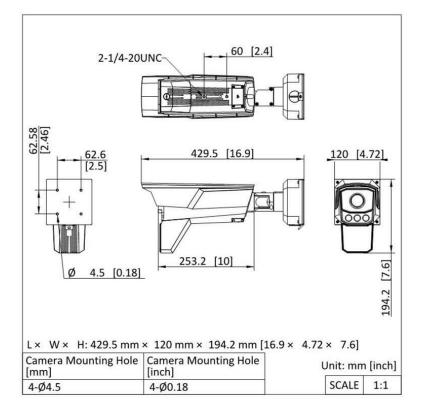
Level	Description		
	Hikvision products at this level are equipped for use in		
Top-level protection	areas where professional anti-corrosion protection is a		
Top-level protection	must. Typical application scenarios include coastlines,		
	docks, chemical plants, and more.		
	Hikvision products at this level are equipped for use in		
	areas with moderate anti-corrosion demands. Typical		
Moderate protection	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		
No specific protection	areas where no specific anti-corrosion protection is needed.		

Available Model

iDS-TCM403-GIR/POE/0832 iDS-TCM403-GIR/POE/2812 iDS-TCM403-GIR/Y/POE/0832



Dimension



Accessory

Optional

DS-1275ZJ-BJH/600mm Hoop & Bracket	DS-1275ZJ-BJH/127mm Hoop & Bracket	DS-1701ZJ/BJH Hoop & Bracket	DS-1232ZJ-T/BJH Cardan Joint	DS-1278ZJ-BJH Hoop & Bracket

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