iDS-TCD803-HI
8 MP IR Traffic Flow Camera



- Applicable to signal control system, traffic information service system, road traffic surveillance, etc.
- High quality imaging with 8 MP resolution(1/1.8'' CMOS)
- Multiple targets visualization in bi-directional 8 lanes with vertical coverage.
- Information detection of multiple targets lane, speed, direction, etc.
- Multiple traffic data collection: statistics and uploading of different lanes, including data of traffic flow, speed, status, queue, time headway, space headway, space occupancy, time occupancy, etc. in 1 to 3,600 s.
- Two virtual coils for each lane. Signal output of vehicle entering and exiting virtual coils. Positions of virtual coils are adjustable.
- Water and dust resistant (IP68) and vandal-resistant (IK10)

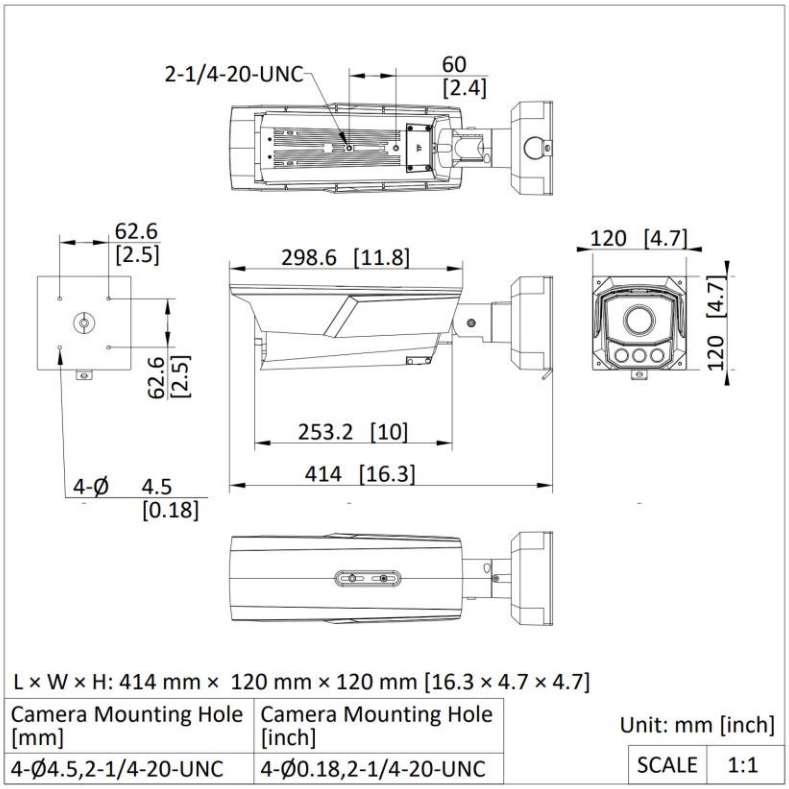
▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
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	70μs to 40000μs
Lens	
Focal Length & FOV	8 to 32 mm, horizontal FOV 41.9° to 15.1°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.8° to 17.3° 2.8-12mm: Horizontal: 111.1°to 38.4°, Vertical:57.1°to 22.2°, Diagonal: 139.9°to 43.6°
Focus	Auto
Iris Type	Auto-iris: DC drive
Aperture	8-32mm：F1.7 2.8-12mm：F1.47-F2.5
Illuminator	
Built-in Supplement Light Type	IR light
Light Bead	3
Built-in Supplement Light Range	up to 50 m
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920 × 1200, 1920 × 1080P, 1280 × 720P) 60 Hz: 30 fps (3840 × 2160, 3392 × 2008, 3072 × 1728, 2688 × 1520, 1920 × 1200, 1920 × 1080P, 1280 × 720P)
Sub-Stream	50Hz: 25 fps (3072 × 1728, 2688 × 1520, 1920 × 1200, 1920 × 1080P, 1280 × 720P, 704 × 576) 60 Hz: 30 fps (3072 × 1728, 2688 × 1520, 1920 × 1200, 1920 × 1080P, 1280 × 720P, 704 × 576)
Third Stream	50 Hz: 25 fps (1280 × 720P, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720P, 704 × 576, 352 × 288)
Video Compression	H.264 and H.265 encoding Main stream: H.265/H.264/MJPEG Sub-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
Audio	
Audio Compression	G.711,G.722.1
Audio Bit Rate	8 Kbps (G.711),16 Kbps (G.722.1)

Network	
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DNS,DDNS,RTSP,NTP,SNMP,IGMP,802.1X,IPv4/IPv6,UDP, ISUP,ARP,DHCP,RTP,RTCP,QoS,SSL/TLS
Simultaneous Live View	Up to 6 channels
API	ISAPI,SDK,ISUP,ONVIF (PROFILE S, PROFILE G, PROFILE T)
User/Host	Up to 32 users,3 user levels: administrator, operator, and user
Security	Password protection,HTTPS encryption,Complicated password,802.1X authentication (EAP-MD5),Watermark,IP address filter,WSSE and digest authentication for ONVIF,Basic and digest authentication for HTTP/HTTPS,RTP/RTSP over HTTPS,Control timeout settings,Security audit log,Host authentication (MAC address),TLS 1.2 1.3
Network Storage	Micro SD/TF card (512 GB), local storage and CVR, NVR, ANPR
Client	Hik-Central Master,HikCentral Master Lite
Web Browser	Chrome V61+, IE9 to IE11, Firefox V41+, Edge
Image	
Image Settings	Saturatio,Brightness,Contrast,Sharpness,Gain,White balance,AGC,Adjustable by client software or web browser.
Day/Night Switch	Auto/Scheduled/Triggered by alarm in
Wide Dynamic Range (WDR)	140 dB
Image Enhancement	BLC, 3D DNR
Interface	
Ethernet Interface	1 RJ45 10/100/1000 M self-adaptive Ethernet port(s)
On-Board Storage	Built-in memory card slot, supporting microSD/SDHC/SDXC card, up to 512 GB
Audio	Supported
Alarm	1 input, 1 output, 2 relays
RS-485	1 RS-485
Wiegand	1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit)
Event	
Basic Event	HDD error,Network disconnected,IP address conflict
Road Traffic and Vehicle Detection	
Coverage	Up to 8 lane(s)
Smart Function	Traffic Data Collection：lane flow(large-sized vehicle flow, small-sized vehicle flow, non-motor vehicle flow), lane speed, passing status, lane queuing length, space headway, time headway, average lane time occupancy rate, average lane space occupancy rate; Incident Detection: Congestion, Accident.
General	
Power	PoE: 802.3bt, Type 2, Class 4, max. 23 W,DC 12 V to 24 V, 2.25 A, max. 23 W, two-core terminal block
Material	Aluminum alloy
Dimension	414 mm × 120 mm × 120 mm (16.3" × 4.7" × 4.7") (L × W × H)
Package Dimension	595 mm × 259 mm × 193 mm (23.4" × 10.2" × 7.6") (L × W × H)
Weight	Approx. 3.0 kg (6.6 lb.)
With Package Weight	Approx. 4.4 kg (9.7 lb.)
Operating Condition	-30 °C to 60 °C (-22 °F to 140 °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	
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,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,IP68: IEC 60529-2013

▪ Dimension



L × W × H: 414 mm × 120 mm × 120 mm [16.3 × 4.7 × 4.7]

Camera Mounting Hole [mm]	Camera Mounting Hole [inch]
4-Ø4.5,2-1/4-20-UNC	4-Ø0.18,2-1/4-20-UNC

Unit: mm [inch]

SCALE 1:1

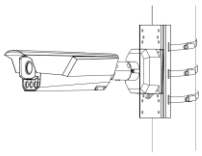
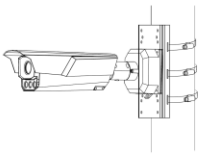
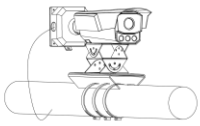
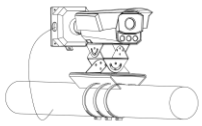
▪ Accessory

▪ Optional

DS-1275ZJ-BJH/60	**DS-1232ZJ-T/BJH**	**DS-1275ZJ-BJH/12**	**DS-1278ZJ-BJH**
0mm		**7mm**	

▪ Installation Methods

Vertical Pole Mounting DS-1275ZJ-BJH/600mm	Vertical Pole Mounting DS-1275ZJ-BJH/127mm	Cardan Joint DS-1232ZJ-T/BJH	Horizontal Pole Mounting DS-1278ZJ-BJH+DS-1232ZJ-T/BJH
			

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