

DS-2XE9440G0-IZHRS/TDL100/CH4
TDLAS Methane Gas Detection Network Camera



- Supports detecting methane concentration by the TDLAS (tunable diode laser absorption spectroscopy) technology, featuring long-range detection, high sensitivity, fast responding, widely covering, and anti-interference against other gases
- Supports patrol detecting for methane and uploading alarm
- Supports displaying real-time methane concentration
- Supports audible and visual alarm functions when the methane concentration exceeds the limit (explosion-proof speaker should be prepared separately)
- Defog, HLC, EIS, and Smart IR
- Up to 200 m IR distance
- Supports wiper
- /TDL100/CH4: SUS304 stainless steel shell; /TDL100/CH4/316L: SUS316L stainless steel
- Ex db IIC T6 Gb/ Ex tb IIIC T80 °C

▪ Specification

Gas Detector	
Detecting Gas	Methane
Detection Principle	TDLAS
Detection Range	0 to 100,000 ppm.m
Detection Distance	0 to 100 m
Respond Speed	<0.1 s
Limit of Detection	500 ppm (5 m away, with a 10 cm air pocket)
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON) B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/30,000 s
Slow Shutter	Yes
P/N	Yes
Day & Night	IR cut filter
Power-off Memory	Yes
Park Action	Preset, Patrol Scan
White Balance	Auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, locked WB
Lens	
Focal Length & FOV	Focal Length: 6.0 to 240 mm, 40 × optical FOV: 56.6° to 1.8° (wide-tele)
Focus	Manual, Semi-auto, Auto
Aperture	F1.2
Zoom Speed	Approx. 4.8 s
Min. Focus Range	10 to 1500 mm (wide-tele)
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-90°~90°
Pan Speed	0.1°~40°/s
Tilt Speed	0.1°~30°/s
Presets	255
Patrol Scan	8 patrols
PTZ Status Display	Yes
Scheduled Task	Preset, patrol scan
Illuminator	
Supplement Light Type	IR Light
Supplement Light Range	Up to 200 m
Video	
Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)

Video Compression	H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16,384 Kbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Yes
H.265+	Yes
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	Fixed Region ROI
Digital Zoom	Yes
Audio	
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM/AAC
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC)
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, UDP, IGMP, ICMP
Simultaneous Live View	Up to 20 channels
API	ONVIF, ISAPI, SDK, third-party management platform, ISUP (Ehome 5.0)
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Security	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Network Storage	NAS (NFS, SMB/CIFS)
Client	iVMS-4200
Web Browser	Firefox52+, Safari12+, Chrome57+, IE10+
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness
SNR	≥52 dB
Image Enhancement	120 dB WDR, defog, HLC, EIS, Smart IR
Video Tampering	Yes
DNR	Yes
Backlight Compensation(BLC)	Yes
Gain	Auto, Manual
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Audio	1 line in, 1 line out
Alarm	2 alarm inputs, 2 alarm outputs
Fiber Optical	1 FC fiber optical interface
Heater	Yes
Event	
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, loitering detection, people gathering detection, people running detection, parking detection, audio exception detection

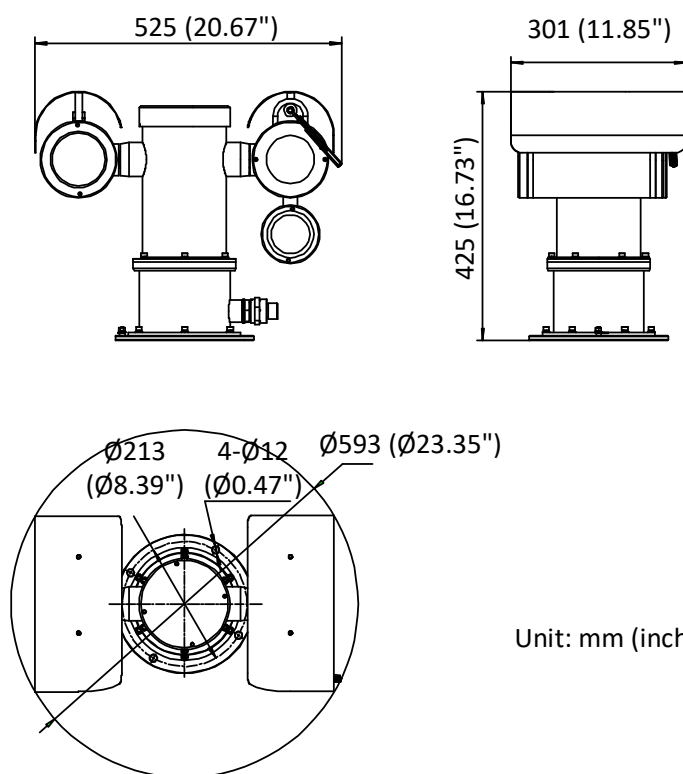
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, audible warning, white light flashing, and PTZ actions (such as preset, patrol scan, pattern scan)
General	
Camera Dimension	Ø590 × 425 mm (Ø23.23" × 16.73")
Camera Weight	Approx. 35 kg (77.18 lb.)
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function	Mirror, password protection, water mark, IP address filter
Wiper	Yes
Power Consumption and Current	Max. 75 W
Power Supply	100 to 240 VAC; PoE++
Approval	
Protection	IP68
Explosion-proof Protection	Ex db IIC T6 Gb/ Ex tb IIIC T80 °C

▪ Available Model

DS-2XE9440G0-IZHRS/TDL100/CH4/316L

DS-2XE9440G0-IZHRS/TDL100/CH4

▪ Dimension



Unit: mm (inch)

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