

TR-XE6445G0-MZ

4 MP Varifocal Explosion-Proof Network Camera



Key Features

- Explosion-proof design: the camera has passed international ATEX & IECEx certifications, and can be used in gas and dust hazardous scenarios
- 304 stainless steel enclosure and anti-corrosion spray treatment, protecting the camera from damage caused by sparks or corrosive materials
- Water and dust resistant (IP68) and vandal-resistant (IK08)
- H.265+/H.265/H.264+/H.264 encoding: efficient compression technology saves storage space and reduces bandwidth requirements
- 100 VAC to 240 VAC wide range power supply: easy to deploy cables and safer compared to a power adapter solution

Introduction

TR-XE6445G0-MZ is an advanced explosion-proof network camera that meets ATEX and IECEx certification standards, ensuring safe and reliable performance in areas with flammable gases or combustible dusts. Built with 304 stainless steel enclosure, this camera is highly resistant to corrosion, making it ideal for applications in the oil & gas industry, chemical plants, refineries, and marine environments.

This robust camera delivers exceptional image quality with its high-resolution sensor and advanced imaging technologies, ensuring clear video even in harsh lighting or weather conditions. Its infrared capabilities allow for effective 24/7 monitoring, while the explosion-proof design ensures uncompromised safety and durability.

Specifications

Camera sensor

Sensor Size	1/2.9" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Color Sensitivity	Color: 0.0125 Lux @ (F1.9, AGC ON), B/W: 0.005 Lux @ (F1.9, AGC ON), 0 Lux with IR
Day & Night	IR cut filter
Shutter Speed	1 s to 1/100,000 s

Camera lens

Lens Focal Length	Varifocal lens, motorized lens, 2.8 to 12 mm
Focal Length & FOV	2.8 to 12 mm, Horizontal 69.7° to 30.8°, Vertical 38.6° to 17.4°, Diagonal 80.5° to 34.9°
Aperture	F1.9
Lens Mount	Ø 14
DORI	Wide: D: 86 m, O: 34.1 m, R: 17.2 m, I: 8.6 m Tele: D: 192 m, O: 76.2 m, R: 38.4 m, I: 19.2 m

Supplement Light

Supplement Light Type	IR
Max. IR Distance	Up to 50 m
Wavelength	850 nm
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger

Video

Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC, HLC, 3D DNR, Defog, Lens Distortion Correction
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Video Compression	Main stream: H.265/H.264/H.264+/H.265+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, MJPEG
Simultaneous Live View	Up to 20 channels
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	5 customized regions for main stream
Video Bit Rate	32 Kbps to 8 Mbps
Privacy Mask	8 programmable polygon privacy masks
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC-LC/MP3
Environment Noise Filtering	Yes

Frame Rate

Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)

Network

Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Web Browser	Plug-in required live view: IE 11 Plug-in free live view: Safari12+ Local service: Chrome 57.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)

I/O interface

On-Board Storage*	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Alarm	1 input + 1 output
Audio	1 line in + 1 line out
Reset Key	Yes

Features & Performance

Detection	Motion detection, line crossing, intrusion, region entrance, region exiting Support alarm triggered by specified target types (human and vehicle)
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Smart Event	Scene change detection, audio exception detection, defocus detection, unattended baggage detection, object removal detection, video tampering alarm, exception
General Function	Heartbeat, mirror, anti-banding, watermark, password protection, privacy mask
Event Actions	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP

General

Dimension	221 mm × 174 mm × 172 mm (8.0"× 6.9" × 6.8")
Weight	Approx. 5.21 kg (11.49 lb.)
Material	Stainless steel 304
Power supply	100 VAC to 240 VAC, 0.2 A, 50/60 Hz, max. 12 W, three-core terminal block PoE: 802.3af, Class 3, 36 to 57 V, 0.3 to 0.2 A, max. 12 W
Available Languages	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

Environmental

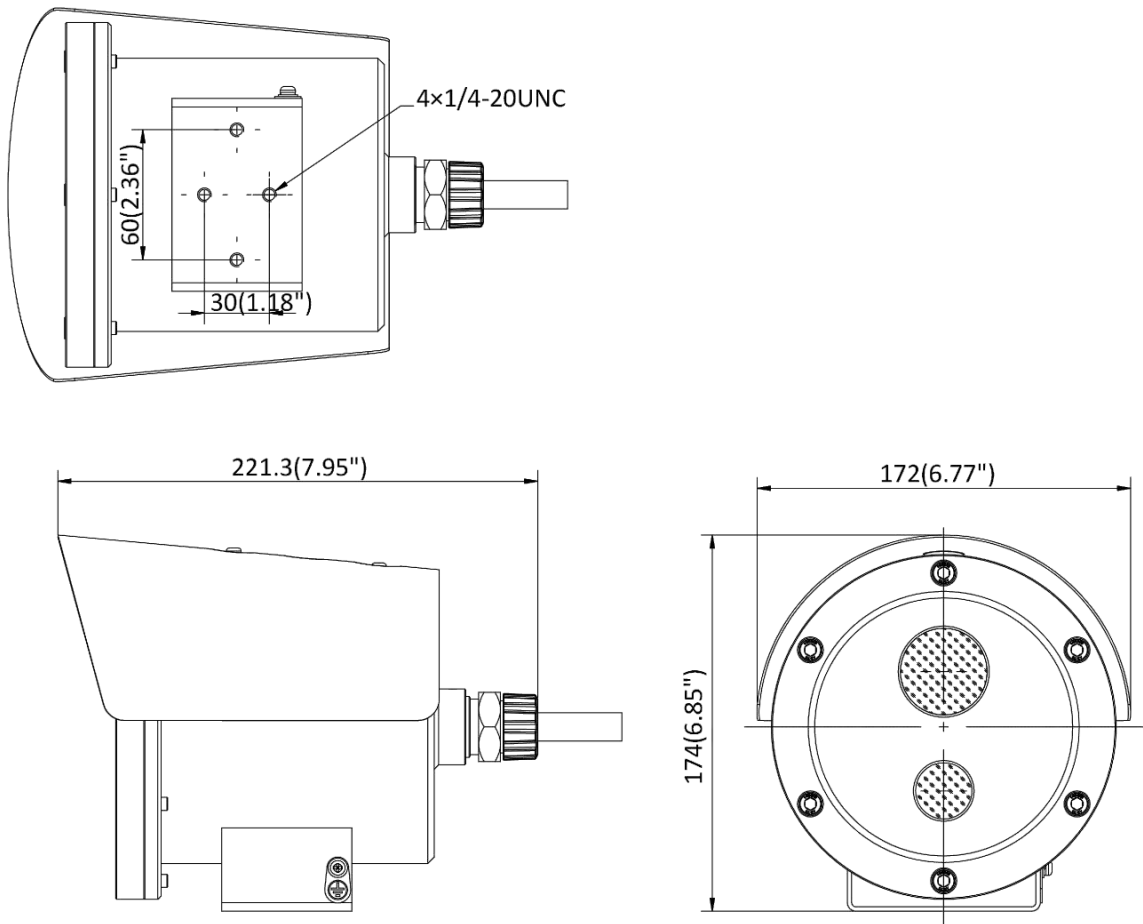
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Humidity	Less than 95% non condensing

Approval

EMC	FCC: FCC-SDoC (ANSI C63.4, FCC Part15 sub B) CE: CE-EMC (EN 50130-4: 2011+A1: 2014, EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013) IC: IC-VoC (ICES-003 Issue 7: 2020) KC: KN 301489-1, KN 301489-17, RRA NOTICE 2017-14 (2017.12.05), RRA NOTICE 2017-19 (2017.12.28)
Safety	UL (UL 60950-1: 2014, CAN/CSA C22.2 No. 60950-1-07: 2014) CB (IEC 60950-1) CE: CE-LVD (EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013)
Protection	IP68 (IEC 60529-2013), IK08 (IEC 62262:2002)
Explosion-Proof Protection	ATEX: II 2G Ex db IIC T6 Gb/ II 2D Ex tb IIIC T80°C Db IP68 IECEx: Ex db IIC T6 Gb /Ex tb IIIC T80°C Db IP68 For explosive gas atmospheres, the maximum surface temperature is 85°C; For flammable dust atmospheres, the maximum surface temperature is 80°C; IIC: for explosive gas atmospheres other than mines susceptible to firedamp; For explosive gas mixture atmospheres: Zone 1, Zone 2, Zone 21, Zone 22.

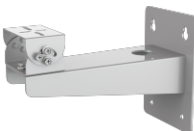
*** Important note:** We highly recommend purchasing a memory card together with the product if needed. Once the order is placed, the memory card will be pre-installed during the manufacturing process.

Dimension



Unit: mm (inch)

Accessory

Vertical Pole Mount	Wall mount bracket	Flexible Conduit G3/4	Junction Box
			

Note: Specifications are subject to change without notice.