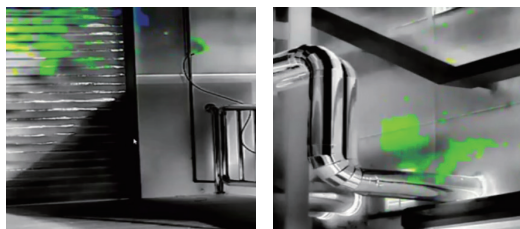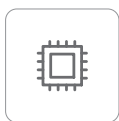# TE464G
Explosion-proof Gas Imaging PTZ

TE464G is a high-performance dual-spectrum gas cloud imagingcamera featuring an advanced uncooled infrared detector with athermal sensitivity of less than 20mK. It holds dual explosion-proofcertifications and has a stainless steel body with an lP68 ingressprotection rating. The device supports multiple protocols includingModbus TCP, ONVlF, and GB28181, and supports secondary development. It can detect Methane (CH_4), Sulfur Dioxide (SO_2), Freon (R-134a, R-152a) and other gases, and has significant applications in industries such as petroleum extraction and coalprocessing.

Product Highlights

640×512 infrared resolution Clear images	Capable of detecting Methane, Sulfur Dioxide, Freon (R-134a, R-152a), and other gases	Dual explosion-proof certification Suitable for various chemical scenarios	Stainless steel shell IP68 grade

Applications

Petroleum Extraction	Industrial Chemicals	Coal Processing	Emergency Response and Environmental Protection

Specifications

Thermal Imaging

Detector Type	VOx uncooled FPA detector
Spectral Band	7~8.5μm
NETD	≤20mK(@25°C,F#1.0,25Hz)
Resolution of Detector	640×512
Pixel Size	12μm
Focal Length	25mm electric focusing lenses

Visible Light Parameters

Sensor	4MP 1/1.8" Progressive Scan CMOS
Resolution	2688×1520
Focal Length	6.5~130mm, 20x

Gas Detection

Gases Detectable	Methane (CH_4), Sulfur Dioxide (SO_2), Freon (R-134a, R-152a) and other gases

PTZ

Horizontal Movement	360° continuous, 0.1°~40°/s
Vertical Movement	-90°~+90°, 0.1°~40°/s
Preset Point	256
Scan Mode	Preset point/Patrol inspection group/Pattern/Linear scanning/Area scanning
Wiper	Wiper

Temperature Measurement

Measurement Range	-20°C~+550°C
Measurement Accuracy	±2°C or ±2% (which is the larger)
Temperature Measurement & Analysis	Support global, point, line, and area temperature measurement rules as well as alarm linkage

Intelligent Functions

Fire Point Detection	Support
Intelligent Detection	Support tripwire intrusion, and regional intrusion detection
Voice Intercom	Support
Alarm Linkage	Video taking/Image capture

System Interface

Power Interface	AC85~220V
Communication Interface	RJ45, supporting Gigabit network; 1-channel RS485, supporting Pelco-D protocol expansion (optional)
Audio Interface	1 Input / 1 Output
Storage Interface	Support Micro SD card (up to 256G)
Reset Button	Support
Serial Port	1-channel RS485 interface, supporting Pelco protocol expansion

General Specifications

Operating Environment	-40°C~+60°C; <90%RH
IP Grade	IP68, Ex d Ⅱ C T6 Gb/Ex tD A21 IP68 T80°C
Power Consumption	max. 100w
Dimensions	484.5mm×303mm×410 mm
Weight	27kg

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▪ This manual is illustrative only. Technical specifications are subject to change without prior notice.