



Eluox Automation

Eluox EIRC35CG VOCs Gas Detection Thermal Camera

Overview

Employed passive thermal imaging technology, EIRC35CG VOCs gas detection thermal camera can quickly scan VOCs natural gas pipelines and equipment, real-time & intuitively locate VOCs gas leakage points and accurately measure the temperature of object via infrared thermal imaging at long distance.



Features

- Cooled QWIP detector
- Thermal sensitivity: $\leq 0.01^{\circ}\text{C}$
- VOCs gas detection sensitivity: $\leq 0.4\text{g/hr (CH}_4\text{)}$
- VOC gas leakage detection
- Thermal temperature measurement
- Photo and video recording function
- 128G SD card
- Explosion-proof: Ex ic nC op is IIC T4 Gc

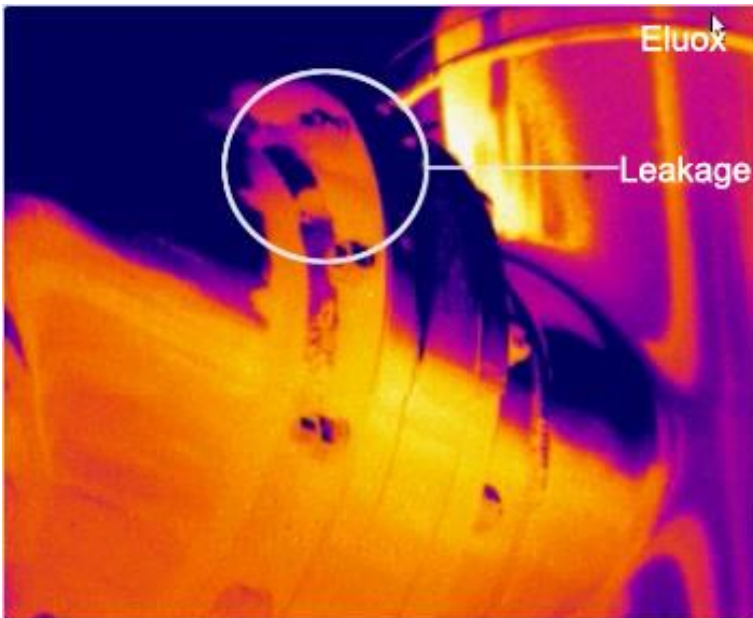
Applications:

Ecological environment law enforcement team, city c(country) motor vehicle exhaust pollution monitoring center, Safety supervision bureau, Fire bureau, Maritime safety administration, LDAR testing service company

Offshore oil platform, oil refinery, refineries, gas station, chemical treatment plant, hazardous chemicals, parking lot and hazardous chemicals storage tank area

Natural gas enterprises, natural gas stations, natural gas well sites, natural gas storage facilities, natural gas transmission pipelines and natural gas power plants

Biogas power plants, pharmaceutical enterprises, pesticide plants, coal chemical plants



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Item		Value	
Detector	Type	High sensitivity cooled QWIP Detector	
	Array size	320x256	
	Pixel pitch	30μm	
	Spectral range	3.1 ~ 3.5μm	
	Thermal sensitivity	10mK	
	Gas sensitivity	≤ 0.4g/hr (CH4)	
Lens	Field of view/ focal length	14° x 11.2° / 39mm	24° x 19.2° / 23mm (optional)
	Minimum imaging distance	0.5m	0.3m
	Spatial resolution	0.77mrad	1.13mrad
	Focus	Manual/Motor/Auto	
Image performance	LCD	HD 5.0", 1280x720, rotatable touch screen	
	Visual camera	5 mega pixel CMOS, auto focus, 1 LED fill light	
	Frame rate	50Hz	
	Amplification	1 ~ 8x digital zoom	
	Palette	12 palettes (including iron hot, rainbow, black hot, white hot, etc.)	
	Contrast/Brightness	Auto/Manual	
Measurement	Range	-20°C -- +350°C	
	Accuracy	±1°C @ 0 ~ 100°C, ±2% of reading @ -20°C ~ 0°C and > 100°C	
	Measuring mode	Up to 10 movable spots, up to 5 movable areas(max, min, avg.), 3 movable circles, movable lines, isothermal analysis, temperature difference, temperature alarm (sound, color)	
	Measurement correction	Auto / manual	
	Emissivity correction	Adjustable from 0.1 to 1.0 or select from list of materials	
	Background temperature correction	Automatically correct according to background temperature	
	Atmospheric transmissivity correction	Auto (according to the input distance, relative humidity, ambient temperature)	
	Setting	Date, time, temperature unit (°C/°F/K), language (Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish.)	
Storage	Memory card	128G	
	Storage mode	Auto/manual single frame image saving,, video recording	
	Infrared image	JPEG, with 14 bit measured data	
	Visible light image	JPEG	
	Video	MPEG4 / H.262, each segment can be up to 1hour	
	Voice annotation	40s, saved together with image	
	Timed storage	Every 10s ~ 24h	
Pointer	Laser	635nm(red), II Class, 1mW	
Power supply	Battery	rechargeable Li-ion battery	
	Operation time	3 hours continuous operation (room temperature)	
	Charging	Intelligent charge or power supply adaptor online charge	
	External power	DC 14V	
	Charging type	Smart charging stand or DC14V 3A power adapter	
	Power saving mode	Available	
Interface	External DC input	available	
	Audio output	Available	
	Video output	HDMI	
	Communication interface	WIFI, Bluetooth, USB	
	Audio output	Yes	
	Tripod	¼"-20	

Item		Value
Environment parameters	Operating temperature	-20°C ~ +50°C
	Storage temperature	-30°C ~ +60°C
	Humidity	≤95% (non-condensing)
	EMC	EN61000-604 & EN61000-6-2, FCC47CFR part15 class A, EN61000-4-8, L5
	Vibration resistance	2G (IEC60068-2-6)
	Shock resistance	25G (IEC60068-2-29)
	Encapsulation	IP54 (IEC60529)
	Explosion-proof	Ex ic nC op is IIC T4 Gc
Physical feature	Dimensions	262mm x 174mm x 154mm
	Weight	≤2.8KG (with standard lens & battery)
Gas detection	Methane	Yes
	Ethane	Yes
	Butane	Yes
	Propane	Yes
	Octane	Yes
	Pentane	Yes
	Heptane	Yes
	Hexane	Yes
	Ethylene	Yes
	Propylene	yes
	Benzene	Yes
	Toluene	Yes
	Ethylbenzone	Yes
	Xylene	Yes
	Ethanol	Yes
	Methanol	Yes
	Isoprene	Yes
	MEK	Yes
MIBK	Yes	
1-pentene	Yes	
Kit	Thermal Camera (with standard lens)	1PCS
	Lithium batteries	2PCS
	Battery charger	1PCS
	Power adapter	1PCS
	Vehicle power converter	1PCS
	SD card	1PCS
	Card reader	1PCS
	Software CD	1PCS
	Headset	1PCS
	Video cable	1PCS
	Carry case	1PCS
	Warranty card	1PCS
	Certificate	1PCS
	User Manual	1PCS