

VOCs Infrared Imaging Gas Leak Detector (FG100)



Product introduction

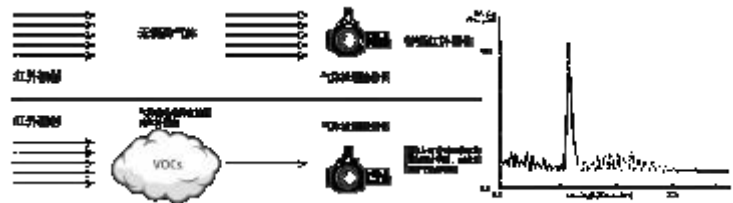
This product is an infrared imaging gas leak detector for VOCs gas leaks, using 320 x 256 mid wave cooling infrared detectors to achieve multi-sensor fusion, suitable for petrochemical and environmental industries. The portable FG100 allows you to quickly scan for leaks at a safe distance from storage tanks and transport pipelines, thus effectively reducing lost revenue due to breakdowns and repairs.

In the environmental protection industry, the technology is included in the Guideline Standard for the Standardization and Construction of Comprehensive Administrative Law Enforcement Equipment for Ecological and Environmental Protection (2020 Edition).

Product Features.

- Quickly locate leak points
- Long-range non-contact detection
- Helps VOCs management
- Unreachable point detection
- LDAR essential tool

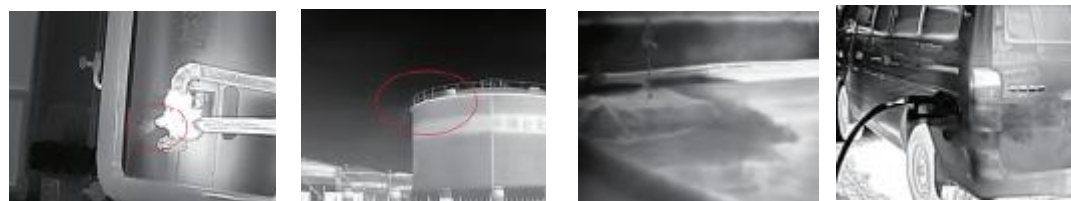
Imaging principle.



Applications

Leak detection and remediation Unreachable points Unorganized emissions Oil storage and transportation sales

(LDAR)



Imaging effect



Detection Applications

- Environmental monitoring stations
- Refineries
- Offshore oil and gas stations Drilling platforms
- Biogas plants
- Environmental monitoring agencies
- Natural gas stations
- Chemical industry
- Environmental enforcement equipment

Main parameters.

Detector and lens		PSU	
Resolution	320×256	Battery	Rechargeable Li-ion polymer battery, continuous operation ≥ 3 hours @ 25°C
pixel pitch	30 μm	External power supply	12v
NETD	≤15mK@25°C	Auto time	Normal temperature ≤ 7 minutes
Working waveband	3.2-3.5 μm		Appearance
Lens	Standard: 24°×19° / Optional: 14.5°×11.6°	Weight	≤2.8kg
focus	Motorized focal adjustment, automatic/manual focus	Size	≤310×175×150mm(including standard lens)

Environmental adaptability		Temperature measurement	
Operating temperature / humidity	-20°C~+50°C/≤95°C	Temperature measurement range	-40°C~+350°C
Storage temperature	-30°C~+60°C	Temperature measurement accuracy	±2°C or ±2% (take the largest absolute value)
Explosion-proof grade	Ex ic II c T4 Gc	Temperature measurement analysis	Point \ area \ line \ isotherm \ temperature difference analysis
Protection class	IP54		

Image display		File storage	
Display/eyepiece	5 inch touch HD LCD/HD OLED	Storage Media	32GB TF card, class10 or higher recommended (expandable to 128G)
Visible light camera	CMOS/auto to focal/built-in 1 LED fill light	Timing photo	3s-24hr
Gas enhancement display	Gas visual enhancement mode	Image file format	Standard JPEG, including digital photos and full radiometric data
Image modes	Image enhancement / infrared image / visible image / image fusion / picture-in-picture	Video storage	Radiometric/H.264 non-radiometric IR/H.264 visible video Storage to TF card
Detectable gases	Methane, ethane, propane, butane, ethylene, propylene, benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, etc.		