

RG600F

OGI Handheld Camera

Using an uncooled VOx detector featuring high spatial resolution and high sensitivity, powered by infrared thermal imaging technology, RG600F enables non-contact, visual leak location for dozens of gases such as Sulfur Hexafluoride (SF₆), Ammonia (NH₃), Ethylene (C₂H₄), Propylene (C₃H₆) and other gases, in addition to daily temperature measurement needs. This series are ideal for gas security, emission management, and equipment maintenance in industries such as oil and gas, petrochemical, environmental protection, emergency response and electric utilities.



Product Highlights

Customized Filter Detector for Clearer Images

- Equipped with a 640×512 customized band-pass filter detector to eliminate stray light interference; capable of distinguishing a temperature difference of 0.023°C, capturing gas microleakage.
- Spatial resolution as low as 0.63mrad, providing wider working distances or better gas details



Versatile, Which is the Best Helper for Routine Inspections

- Simultaneous observation of thermal imaging and visible light to easily locate gas leaks.
- High accuracy of temperature measurement, easy to meet the dual tasks of gas leakage detection and temperature measurement.
- 3.5-inch touch screen+ complete analysis functions, easy to facilitate routine inspection tasks.



IIC T4 Explosive-Proof, Safe and Reliable

- Ex ic IIC T4 explosive-proof rated, suitable for security applications in explosive-proof application such as oil and natural gas routine inspections.



Specifications

Thermal Imaging Parameters	
Detector Type	Uncooled infrared detector
Infrared Resolution	640×512
Spectral Band	Central wavelength 10.55μm
Gases Detectable	Sulfur Hexafluoride (SF ₆), Ammonia (NH ₃), Ethylene (C ₂ H ₄), Propylene (C ₃ H ₆) and other gases
Pixel Size	12μm
NETD	23mK
IFOV	0.63mrad
Frame Rate	30Hz
Focal Length	19mm
FOV	23°×18°
Focus Mode	Manual
Measurement Range	-20°C~+120°C
Measurement Accuracy	±2% or ±2°C
Overall Device	
Measurement Mode	Center point/Hot and cold spot tracking and temperature display
Customized measurement on points, lines, and areas	Movable points/lines/areas; up to 10 points, 10 areas, and 10 lines
Measurement Unit	Celsius, Fahrenheit, Kelvin
Emissivity	0.01~1.00, step size 0.01
Ambient Temperature	-10°C~+50°C, step size 1°C
Distance Settings	1~20m, step size 1m
Image Mode	Infrared, visible light, dual-spectrum fusion, PIP
Palettes	10
Temperature Alarm	Available
Alarm Type	Image Alarm
Temperature Width Stretch	Manual/Auto temperature range
Laser Pointer	Available
Visible Light Camera	5 megapixels
Video/Photo Storage	XX-IR.jpg (Infrared image with temperature data) and XX-DC.jpg (visible-light image); videos without data.
Voice Note	Available
Language	English, Japanese, Poland, Russian, Korean, Hungarian, Bap, German, French, Spain, Italy, Turkey, and Traditional Chinese
Display Size	3.5-inch touch screen (480×640)
Image Naming	Auto/manual naming, naming by scanning QR code
Memory Card	Standard 32GB Micro SD card
Battery Type	Rechargeable and detachable lithium-ion battery
Power Interface	USB TypeC
Connecting Method	USB, SD card, Wi-Fi (AP mode or networking mode)
Charging Time	About 3h
Battery Life	About 3h
Power Management	Automatic shutdown: 5 minutes, 10 minutes, 20 minutes, never
Others	
Analysis Software	PC & App
Tripod Support	Available
Operating Temperature	-10°C~+50°C
Storage Temperature	-20°C~+60°C
Relative Humidity	10%~95%, non-condensing
Drop Protection	2m
IP Grade	IP54(IEC 60529)
Shock and Vibration	Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)
Dimensions	258.4 ×105.1 ×102.3(mm)
Weight	About 670g
Authentication	CE/ROHS, etc.
Packing List	5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate, package list

Applications



Petrochemical



Emergency Response and Environmental Protection



Electric Power and Energy



Oil Exploitation

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*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without prior notice. Sample No.: G2025-RG600F-2P001