ICI | INFRARED CAMERAS INC

NEXT GENERATION GAS IMAGING

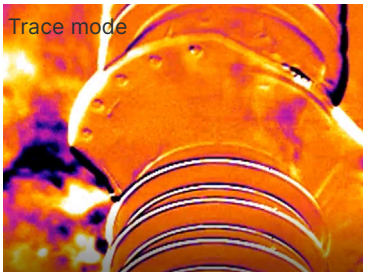
THE OPTIMUM GAS LEAK SOLUTION

Sulfur Hexafluoride (SF6) has been widely used in the electrical industry as an excellent insulation arc extinguishing gas. The potential harm to both life and the environment has become a matter of extreme importance. ICI's Gas DetectIR LW Gen 2 swiftly visualizes and locates SF6 gas leaks and other volatile compounds, making it a critical asset for detecting latent faults and mitigating exposure to potentially hazardous chemicals. Notably, the device holds ATEX certification, ensuring its adherence to explosion-proof standards.

Gas DetectIR LW Gen 2

BETTER VIEWING EXPERIENCE

ICI introduces enhanced ergonomics in the Gas DetectIR LW Gen 2 with both a rotating handle and a 5.5", 1920x1080 OLED screen, facilitating comfortable gas leak detection at nearly any angle. The tilting viewfinder enhances observation abilities by making it easier to view the scene even in bright outdoor conditions. This hardware upgrade in Gas DetectIR LW Gen 2 establishes a more efficient and expeditious solution for imaging gas leaks.



GAS LEAK DETECTION

The significance of mitigating the release of SF6 and flammable toxic gases is paramount. Gas DetectIR LW Gen 2 stands out with unparalleled gas leak detection capabilities. Rigorously lab-tested, it exhibits the ability to detect over 20 distinct gases, including Sulfur Hexafluoride (SF6) and various gases. The inclusion of a trace mode further enhances its capacity to pinpoint the movement of leaking gases.

CERTIFIED PROTECTIONS

With a IP54 rating and metal housing, the Gas DetectIR LW Gen 2 is safeguarded against dust interference and water ingress. It also holds ATEX certification, designating it as explosion-proof. The automatic gas leak identification function enhances detection efficiency, while its intrinsically safe classification prioritizes operator safety.

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GAS DETECTIR LW GEN 2

Industry

Introducing the Gas DetectIR LW Gen 2—an ATEX certified explosion-proof infrared camera meticulously designed for the precise detection of Sulfur Hexafluoride (SF6) and other volatile compounds. Boasting high temperature measurement capabilities of up to 350°C (662°F), the cooled camera ensures high accuracy in its performance. This cutting-edge device delivers 320 x 240 media and features a rotating 5.5" (1920x1080) OLED screen, complemented by a tilting high-resolution viewfinder and handle for imaging comfortably at any angle. The user-friendly interface ensures intuitive operation. It offers 60 seconds of voice annotation, seamlessly stored with the captured media.

Features

- High temperature measurements
- ATEX certified - explosion proof
- Unmatched gas detection
- Trace Mode for better visibility
- Detects 20 different gases
- Rotating 5.5" OLED screen, 1920x1080
- Rotating hand for imaging at any angle
- Tilting high-definition viewfinder
- 60 Seconds voice annotation per image
- Laser ranging for providing distance

Gases Detected

- Sulfur Hexafluoride (SF6)
- Acetyl Chloride
- Acetic Acid
- Allyl Bromide
- Allyl Chloride
- Allyl Fluoride
- Ammonia (NH3)
- Bromomethane
- Chloride Dioxide
- Ethyl Cyanoacrylate
- Ethylene
- Furan
- Hydrazine
- Methylsilane
- Methyl Ethyl Ketone
- Methyl Vinyl Ketone
- Propenal
- Propene
- Tetrahydrofuran
- Trichloroethylene
- Uranyl Fluoride
- Vinyl Chloride
- Vinyl Cyanide
- Vinyl Ether

Options & Accessories

- Call for more lens options
- 2-bay battery charger
- External power cable
- ICI Reporting Software
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)

Specifications

- **Pixel Resolution:** 320 x 240
- **Accuracy:** ± 1°C (± 1.8°F) or ± 1% (from 0°C ~ 100°C)
  ± 2°C (± 3.6°F) or ± 2% (above 100°C)
- **Temperature Range:**
  -20°C to 350°C (-4°F to 662°F)
- **Operation Range:** -10°C to 40°C (14°F to 104°F)
- **Storage Range:** -40°C to 70°C (-40°F to 158°F)
- **Detector Array:** cooled QWIP
- **Focus:** automatic or manual
- **FOV:** 22° x 18°
- **IFOV:** 0.65 mrad
- **Spectral Band:** 10.3 µm to 10.7 µm
- **Thermal Sensitivity (NETD):**
  < (15 mK) 0.015°C at 30°C (86°F)
- **Frame Rate:** 50 Hz/60 Hz
- **Dynamic Range:** 16-bit
- **Humidity:** 10% to 95% non-condensing
- **Pixel Operability:** > 99 %
- **Shock/Vibration:** 25 G/2.5 G
- **Dimensions (without lens):**
  307.5 mm x 161.7 mm x 192 mm (L x W x D ± 0.5 mm)
  (12.10" x 6.37" x 7.56" (L x W x H ± 0.02"))
- **Power:** 12V DC/AC adapter
- **Battery:** Li-ion, rechargeable/replaceable
- **Operation Time:** ≥ 4 Hours
- **Charging Time:** 3 Hours
- **Start Up Time:** ≤ 7 minutes
- **Weight:** ≤ 2.85 kg (6.28 lbs)
- **Interface:** USB 3.0, Wi-Fi, Bluetooth 5.1, 4G module
- **View Finder:** color OLED, 1024x768
- **Video Format:** IRV with temperature data
  MP4 without temperature data + audio
- **Video Output:** HDMI
- **Image Polarity:** 12 options
- **Memory:** 512 GB (up to 1 TB)
- **Screen:** 5.5" OLED screen, 1920x1080
- **Digital Camera:** 16 MP
- **Zoom:** 1x~ 16x electronic
- **Emissivity Correction:** 0.1 to 1.0
- **Voice Annotation:** 60 seconds per image
- **Protection:** IP54, IEC 529, ATEX - explosion proof
- **Laser:** Class II 635 nm, < 1 mW
- Internal non-uniformity correction (NUC)

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