ICI | INFRARED CAMERAS INC

NEXT GENERATION GAS IMAGING

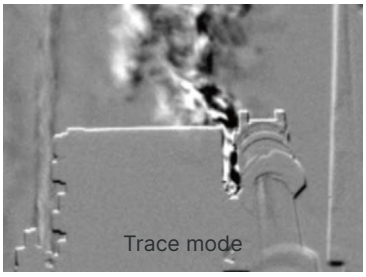
THE OPTIMUM GAS LEAK SOLUTION

Numerous industries engage extensively with methane, organic gases, and chemical compounds. The potential harm to both life and the environment arising from the release of volatile organic compounds and flammable toxic gases has become a matter of global concern. ICI's Gas DetectIR VOC 640 Gen 2 swiftly visualizes and locates gas leaks, 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 VOC Gen 2

BETTER VIEWING EXPERIENCE

ICI introduces enhanced ergonomics in the Gas DetectIR VOC 640 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 VOC Gen 2 establishes a more efficient and expeditious solution for imaging gas leaks.



GAS LEAK DETECTION

The significance of mitigating the impact on life and the environment arising from the release of volatile organic compounds and flammable toxic gases is paramount. Gas DetectIR VOC 640 Gen 2 stands out with unparalleled gas leak detection capabilities. Rigorously lab-tested, it exhibits the ability to detect 20 distinct gases, including Methane and various organic 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 VOC 640 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 VOC 640 GEN 2

Industry

Introducing the Gas DetectIR VOC 640 Gen 2—an ATEX certified explosion-proof infrared camera meticulously designed for the precise detection of methane and various organic gases. Boasting high temperature measurement capabilities of up to 350°C (662°F), the cooled camera ensures utmost accuracy in its performance. This cutting-edge device delivers 640 x 512 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
- Wi-Fi and Bluetooth 5.1 enabled
- GPS data stored with each image
- High Resolution OGI Camera
- Built-in quantitative mode
- 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
- Supports text annotation
- Laser ranging for providing distance value

Gases Detected

- Benzene
- Ethanol
- Ethylbenzene
- Heptane
- Hexane
- Isoprene
- Toluene
- Methanol
- MEK
- Pentane
- Xylene
- Butane
- Ethane
- Methane
- Propane
- Ethylene
- Propylene
- MIBK
- Octane
- 1-Pentene

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:** 640 x 512
- **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:** -20°C to 50°C (4°F to 122°F)
- **Storage Range:** -40°C to 70°C (-40°F to 158°F)
- **Detector Array:** cooled
- **Focus:** automatic or manual
- **FOV:** 24° x 18°
- **IFOV:** 0.65 mrad
- **Spectral Band:** 3.2 µm to 3.5 µm
- **Thermal Sensitivity (NETD):**
  < (10 mK) 0.01°C at 30°C (86°F)
- **Frame Rate:** 30 Hz
- **Dynamic Range:** 16-bit
- **Humidity:** 10% to 95% non-condensing
- **Pixel Operability:** > 99 %
- **Shock/Vibration:** 25 G/2.5 G
- **Dimensions (without lens):**
  327.5 mm x 161.7 mm x 192 mm (L x W x D ± 0.5 mm)
  (12.89" 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:** ≤ 2.68 kg (5.91 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:** Mini 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 certificate
  EX ic nC op is IIC T6 Gc
- **Laser:** Class II 635 nm, < 1 mW
- Laser ranging for providing distance value
- Internal non-uniformity correction (NUC)

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