



## HydroCarbon - Optical Gas Imaging

*Patent No. 9880552*

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We are IR™

# ICI | Mirage HC

Featuring the latest technological advancements, the Mirage HC infrared camera is capable of delivering the optimum solution for the detection of Methane and other HydroCarbon gases. Our infrared gas camera is capable of collecting Radiometric Temperature Data, and produces superb thermal images using its 640x512 InSb array. The Mirage HC's Easy-to-Use interface allows for intuitive operation, and has low power consumption, less than 8 watts. Weighing in at less than 765 Grams without a lens, it is compact and portable, enabling users to quickly pinpoint the failure and give clear vision of leaking gases. Includes ICI's IR Flash Software, and integrates with ICI's UAV Sensor Control Module.



## Features

- Unmatched Gas Detection
- Unparalleled Image Quality
- Collect Radiometric Temperature Data
- Integrates with Sensor Control Module
- Low Power (<8 Watts)
- Compact / Portable
- Light Weight
- Includes IR Flash Software

## Specifications

- **Detector Array:** Cooled MWIR InSb
- **Pixel Pitch:** 15µm
- **Pixel Resolution:** 640x512
- **Spectral Band:** 3.2µm - 3.4µm
- **NETD Sensitivity:** <.014°C at 30°C
- **Frame Rate:** 30Hz or 25Hz
- **Dynamic Range:** 8bit or 14 bit
- **Temp Range:** -40°C to 80°C  
High Temperature: 0°C to 350°C
- **Operation Range:** -40°C to 80°C
- **Accuracy:** +/- 1°C
- **Pixel Operability:** >99%
- 20G Shock / 5.8G Vibration
- **Dimensions:**  
154mmx60mmx90mm - w/o lens  
(LxWxH +/- .5mm)
- **Weight:** <765 Grams - without lens
- **Video:** NTSC or PAL analog video
- **Humidity:** non-condensing b/t 5%-95%
- 20G Shock / 5.8G Vibration
- **Power:** 12V (Cooling Engine)
- USB 2.0 for Electronics Power & Data
- Shutterless
- Aluminum Enclosure



## Detectable Gases

- |                          |                       |
|--------------------------|-----------------------|
| • Benzene - 3.5g/hr      | • Xylene - 1.9g/hr    |
| • Ethanol - 0.7g/hr      | • Butane - 0.4g/hr    |
| • Ethylbenzene - 1.5g/hr | • Ethane - 0.6g/hr    |
| • Heptane - 1.8g/hr      | • Methane - 0.75g/hr  |
| • Hexane - 1.7g/hr       | • Propane - 0.4g/hr   |
| • Isoprene - 8.1g/hr     | • Ethylene - 4.4g/hr  |
| • Toluene - 3.8g/hr      | • Propylene - 2.9g/hr |
| • Methanol - 3.8g/hr     | • MIBK - 2.1g/hr      |
| • MEK - 3.5g/hr          | • Octane - 1.2g/hr    |
| • Pentane - 3.0g/hr      | • 1-Pentene - 5.6g/hr |

## Software Options

- IR Flash Software
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)

