

ICI | Mirage Research & Development



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We are IR™

ICI | Mirage Research & Development

Featuring the latest technological advancements, the Mirage Research & Development camera is capable of delivering the optimum solution for a wide variety of infrared applications. Our Mirage Research & Development camera is capable of collecting Radiometric Temperature Data, and produces superb thermal images using its 640x512 InSb array. The Mirage Research & Development's Easy-to-Use interface allows for intuitive operation, and has low power consumption, less than 8 W. Weighing in at less than 765 g, it is compact and portable, enabling users to quickly pinpoint temperatures of -55 °C to 120 °C to give superb vision. Includes ICI's IR Flash Pro Software, and integrates with ICI's UAV Sensor Control Module.



Features

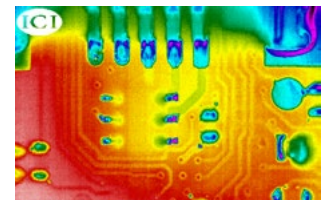
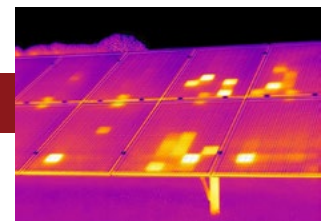
- Unmatched Image Resolution
- Collect Radiometric Temperature Data
- Integrates with Sensor Control Module
- Low Power (< 8 W)
- Compact / Portable
- Light Weight

Specifications

- **Detector Array:** Cooled MWIR InSb
- **Pixel Pitch:** 15 μm
- **Pixel Resolution:** 640x512
- **Spectral Band:** 1.5 μm to 5.1 μm
- **Thermal Sensitivity (NETD):** < 0.012 °C at 30 °C (12 mK)
- **Frame Rate:** 30 Hz P-Series or 9 Hz S-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:** -55 °C to 350 °C
- **Operation Range:** -40 °C to 80 °C
- **Storage Range:** -40 °C to 70 °C
- **Accuracy:** $\pm 1^\circ\text{C}$
- **Pixel Operability:** >99%
- 20G Shock / 5.8G Vibration
- **Dimensions (without lens):** 111 x 96 x 131 mm (H x W x D $\pm .5$ mm)
- **Power:** 12V (Cooling Engine)
- **Weight:** < 765 g - without lens
- **Video:** NTSC or PAL analog video
- **Humidity:** non-condensing between 5 % to 95 %
- 20 G Shock / 5.8 G Vibration
- USB 2.0 for Electronics Power & Data
- Shutterless
- Aluminum Enclosure

Applications

- Scientific Research
- Medical Imaging
- Printed Circuit Boards
- Micro Electronics
- Laser Imaging
- DWDM
- Radiometric Imaging
- Process Control
- Robotics
- Industrial Monitoring
- Aerial Imaging
- Building Automation
- Security Monitoring
- Electrical Inspection



Software Options

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