

MIRAGE RESEARCH & DEVELOPMENT BROADBAND IMAGER

Featuring the latest technological advancements, the Mirage Research & Development camera is capable of delivering the optimum solution for a wide variety of infrared applications, and is capable of collecting radiometric temperature data. Our device produces superb thermal images using its 640 x 512 InSb array. The Mirage Research & Development's Easy-to-Use interface allows for intuitive operation, and has low power consumption. Weighing in at less than 765 g, it is compact and portable, enabling users to quickly pinpoint temperature fluctuations across a broad spectral band. Includes ICI's IR Flash Pro Software, and integrates with ICI's UAV Sensor Control Module.

Features

- UAV/UAS integration
- Collect radiometric temperature data
- Integrates with sensor control module
- Unparalleled image quality
- Light weight, compact, & portable
- Low power (< 8 W)
- Includes IR Flash software

Specifications

- **Detector Array:** Cooled MWIR InSb
- **Pixel Pitch:** 15 μm
- **FOV:** lens dependent
- **Measurement Distance:** lens dependent
- **Pixel Resolution:** 640 x 512
- **Spectral Band:** 1.5 μm to 5.1 μm
- **Thermal Sensitivity (NETD):** < 0.012 $^{\circ}\text{C}$ at 30 $^{\circ}\text{C}$ (12 mK)
- **Frame Rate:** 30 Hz P-Series
Optional: 9 Hz S-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:** -55 $^{\circ}\text{C}$ to 350 $^{\circ}\text{C}$
- **Operation Range:** -40 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$
- **Storage Range:** -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
- **Humidity:** 5% to 95% non-condensing
- **Accuracy:** $\pm 1^{\circ}\text{C}$
- **Pixel Operability:** > 99 %
- **Shock/Vibration:** 20 G/5.8 G
- **Dimensions (without lens):** 131 mm x 96 mm x 111 mm
(L x W x H $\pm .5$ mm)
- **Power:** 12V (cooling engine)
- **Weight (without lens):** < 765 g
- **Interface:** USB 2.0
- **Video:** NTSC or PAL
- 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

Options & Software

- Optional: 9 Hz S-Series
- Optional: Ethernet
- IR Flash Software
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)



Mirage Research & Development

ICI cameras all fall under US Federal Law and Export Control.