

ICI | 9160



Patent No. 9880552

www.infraredcamerasinc.com | sales@infraredcamerasinc.com

INFRARED CAMERAS INC.
2105 W. Cardinal Dr.
Beaumont, TX 77705

Phone: (409) 861-0788
Toll Free: (866) 861-0788

We are IR™

ICI | 9160

The ICI 9160 thermal infrared camera has an uncooled FPA Microbolometer with 120x90 resolution. Additionally, the camera is light weight, small in size, and has low power consumption. The 9160's thermal core has center point measurement and SPI interface. Applications include scientific research, electronics manufacturing, short range surveillance, fixed temperature measurement, and vehicle mounted surveillance. Comes with IR Flash Software.

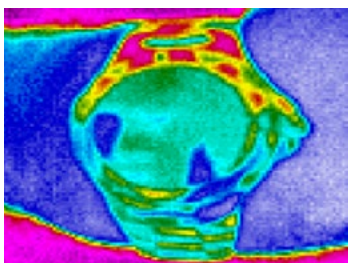


Features

- Sensor Control Module Integration
- Operates in High Humidity
- Can be Fixed Mounted
- USB 2.0 Easy Charge
- Digital Zoom
- Small Size
- Light Weight
- Low Power < 100 mW
- Includes IR Flash Software

Specifications

- **Detector Array:** UFPA Microbolometer
- **Pixel Pitch:** 25 μm
- **Pixel Resolution:** 160x120
- **Spectral Band:** 7 μm to 14 μm
- **Thermal Sensitivity (NETD):**
< 0.05 $^{\circ}\text{C}$ at 30 $^{\circ}\text{C}$ (50 mK)
- **Frame Rate:** 9 Hz
- **Dynamic Range:** 14-bit A/D Resolution
- **Temperature Range:** -20 $^{\circ}\text{C}$ to 150 $^{\circ}\text{C}$
- **Operation Range:** -15 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$
- **Storage Range:** -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
- **Accuracy:** $\pm 2^{\circ}\text{C}$
- **Pixel Operability:** > 99 %
- **Dimensions (without lens):**
41 x 40 x 39 mm (H x W x D $\pm .5\text{mm}$)
- **Power:** < 100 mW
- **Weight (without lens):** < 113 g
- SPI Interface
- Fixed/Manual Focus
- Digital Zoom
- USB 2.0 for Power & Video Out
- **Humidity:** 5 % ~ 95 %, non-condensing



Applications

- UAV Integration
- Process Control
- Electronics Manufacturing
- Industrial Vision Systems
- Short Range Surveillance
- Vehicle Mounted Surveillance
- Scientific Research
- Fixed Temp. Measurement
- Security Monitoring
- Automotive



Lens & Software Options

- Lens Options: 3.8 mm
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)
- Sensor Control Module Integration

