The ICI 8640 Broadband infrared camera offers unmatched image sensitivity and accuracy in a 640x512 radiometric imager. With less than 5 inches in overall dimension the 8640 fits in the tightest of areas hand has a 3 µm to 14 µm spectral band. The ICI 8640 operates on less than 1 W of power, via a USB 2.0 connection, providing real time radiometric data streamed directly to any desktop, laptop, tablet or embedded system. Windows and Linux software, drivers and SDK are available for all custom applications. Perfect for UAV applications.

**Features**
- Broadband: 3 µm to 14 µm
- Unmatched Image Sensitivity
- Multi-Device Linking
- Radiometric Data Streaming
- Integrates into Embedded Systems
- Windows and Linux Software
- Small Size, Light Weight
- Low Power < 1 W by USB
- Drivers and SDK Available

**Applications**
- Process Control
- Robotics
- Industrial Vision Systems
- Medical Radiometric Imaging
- Aerial Radiometric Imaging
- UAV Integration
- Scientific Research
- Building Automation
- Security Monitoring

**Specifications**
- **Detector Array**: UFPA (VOx)
- **Pixel Pitch**: 17 µm
- **Pixel Resolution**: 640x512
- **Spectral Band**: 3 µm to 14 µm
- **Thermal Sensitivity (NETD)**:<br> 0.02 °C at 30 °C (20 mK)
- **Frame Rate**: 60 Hz P-Series
- **Dynamic Range**: 14-bit
- **Temperature Range**:<br> Standard: -20 °C to 120 °C<br> Optional: 0 °C to 500 °C
- **Operation Range**: -40 °C to 80 °C
- **Storage Range**: -40 °C to 70 °C
- **Accuracy**: ± 1 °C
- **Pixel Operability**: > 99%
- **75 G Shock / 4 G Vibration**
- **Dimensions (without lens)**:<br> 45 x 45 x 39 mm (H x W x D ± .5 mm)
- **Power**: < 1 W
- **Weight (without lens)**: 37 g
- **USB 2.0 for Power & Data**
- **Built in Shutter**
- **Aluminum Enclosure**

**Options & Accessories**
- 8 mm Manual Focus Lens<br> (80’ x 60’ FOV, +50 g)
- 9 mm Athermalized Focus Lens<br> (70’ x 52’ FOV, +40 g)
- 12.5 mm Manual Focus Lens<br> (50’ x 37.5’ FOV, +64 g)
- 16.7 mm Athermalized Focus Lens<br> (37.5’ x 28’ FOV, +25 g)
- 25 mm Athermalized Focus Lens<br> (24.8’ x 18.6’ FOV, +50 g)
- 30 mm Manual Focus Lens<br> (20’ x 15’ FOV, +100 g)
- 35 mm Athermalized Focus Lens<br> (17.6’ x 13.2’ FOV, +100 g)
- 50 mm Manual Focus Lens<br> (12.4’ x 9.3’ FOV, +170 g)
- 100 mm Manual Focus Lens<br> (6.2’ x 4.7’ FOV, 565 g)
- **Sensor Control Module**