

# ICI | 9640 S-Series



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We are IR™

# ICI | 9640 S-Series

The ICI 9640 S-Series infrared camera offers unmatched image sensitivity and accuracy in a 640x480 radiometric imager. With less than 5 in<sup>3</sup> in overall dimension the 9640 fits in the tightest of areas. The ICI 9640 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 any and all custom applications. Includes IR Flash Software. Integrates into the Sensor Control Module for UAV applications.



## Features

- Unmatched Image Sensitivity
- UAV Connectivity
- Multi-Device Linking
- Radiometric Data Streaming
- Integrates into Embedded Systems
- Small Size
- Light Weight
- Low Power < 1 W by USB
- Drivers and SDK Available
- Includes IR Flash Software.

## 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:** 640x480
- **Spectral Band:** 7 µm to 14 µm
- **Thermal Sensitivity (NETD):** < 0.02 °C at 30 °C (20 mK)
- **Frame Rate:** 9 Hz P-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:** -40 °C to 140 °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):** 34 x 30 x 34 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

- 7.5 mm Athermalized Lens (90° x 67° FOV, +6 g)
- 12.5 mm Manual Focus Lens (50° x 37.5° FOV, +64 g)
- 14.25 mm Athermalized Lens (44° x 33° FOV, +45 g)
- 16.7 mm Athermalized Lens (37.5° x 28° FOV, +35 g)
- 25 mm Athermalized Lens (24.8° x 18.6° FOV, +50 g)
- 30 mm Manual Focus Lens (20° x 15° FOV, +100 g)
- 35 mm Athermalized Lens (17.6° x 13.2° FOV, +100 g)
- 50 mm Athermalized Lens (12.4° x 9.3° FOV, +230 g)
- 65 mm Athermalized Lens (9.6° x 7.2° FOV, +460 g)
- 100 mm Athermalized Lens (6.2° x 5° FOV, 460 g)
- 1/4-20 Bulkhead Mount
- Sensor Control Module

