

ICI | 9640 C-Series



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We are IR™

ICI | 9640 C-Series

Our ICI 9640 C-Series infrared camera offers unmatched image sensitivity and accuracy in a 640x480 imager. With less than 5 in³ in overall dimension the 9640 fits in the tightest of areas. This thermal camera integrates into the Sensor Control Module for UAV applications. The 9640 C can also be mounted to a number of available ICI enclosures which meet NEMA 4 – NEMA 9 specifications and protect against harsh weather environments.



Features

- Unmatched Image Sensitivity
- UAV Connectivity
- Multi-Device Linking
- Integrates into Embedded Systems
- Small Size
- Light Weight
- Low Power

Specifications

- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 17 μ m
- **Pixel Resolution:** 640x480
- **Spectral Band:** 7 μ m to 14 μ m
- **Thermal Sensitivity (NETD):** < 0.02 °C at 30 °C (20 mK)
- **Frame Rate:** 30 Hz P-Series or 9 Hz S-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:** \pm 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 \pm .5 mm)
- **Power:** < 1 W
- **Weight (without lens):** 37 g
- USB 2.0 for Power & Data
- Built in Shutter
- Aluminum Enclosure

Applications

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

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

