

ICI | S-Series IR Camera



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We are IR™

ICI | S-Series IR Camera

The ICI S-Series IR Camera offers unmatched image sensitivity and accuracy in a 320x240 radiometric imager. With less than 2 in³ in overall dimension, the S Series IR Camera fits in the tightest of areas. The imager 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. Integrates into the Sensor Control Module for UAV applications. Includes IR Flash version 1.0 Software.



Features

- 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

- Healthcare Robotics
- Radiometric Imaging
- Scientific Research
- Breast Imaging
- Temperature Measurement
- Hospital Healthcare Procedure
- Sub-acute Healthcare Settings
- Airport Screening



Specifications

- **Detector Array:** FPA (VOx)
- **Pixel Pitch:** 17 μ m
- **Pixel Resolution:** 320x240
- **Spectral Band:** 7 μ m to 14 μ m
- **Thermal Sensitivity (NETD):** < 0.02 °C at 30 °C (20 mK)
- **Frame Rate:** 9 Hz P-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:**
Standard: -20 °C to 120 °C
Optional: 0 °C to 500 °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):**
45 x 45 x 39 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

Options & Accessories

- 4.1 mm Manual Focus Lens (80° x 60° FOV, +116 g)
- 5 mm Manual Focus Lens (58° x 44.5° FOV, +44 g)
- 8 mm Manual Focus Lens (40° x 30° FOV, +50 g)
- 9 mm Athermalized Focus Lens (35° x 26° FOV, +40 g)
- 12.5 mm Manual Focus Lens (25° x 18.8° FOV, +64 g)
- 16.7 mm Athermalized Focus Lens (18.8° x 14° FOV, +25 g)
- 25 mm Athermalized Focus Lens (12.4° x 9.3° FOV, +50 g)
- 30 mm Manual Focus Lens (10° x 7.5° FOV, +100 g)
- 35 mm Athermalized Focus Lens (8.8° x 6.6° FOV, +100 g)
- 50 mm Manual Focus Lens (6.2° x 4.7° FOV, +170 g)
- 100 mm Manual Focus Lens (3.1° x 2.4° FOV, +565 g)
- Sensor Control Module

