

ICI | SWIR 128 P-Series



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We are IR™

ICI | SWIR 128 P-Series

The ICI SWIR 128 P-Series Infrared Camera offers unmatched image sensitivity and accuracy in a 128 x 128 radiometric imager. With less than 3 in³ in overall dimension the SWIR fits in the tightest of areas. The ICI SWIR 128 uses USB2.0 for power & data power, 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.

Features

- Unmatched Image Sensitivity
- Real time Radiometric Data
- Native Wide Dynamic Range
- Aluminum Enclosure
- Medium Size
- Light Weight
- Low Power

Specifications

- **Detector Array:** FPA (InGaAs)
- **Pixel Pitch:** 15 μm
- **Pixel Resolution:** 128x128
- **Spectral Band:** .95 μm to 1.7 μm
- **Thermal Sensitivity (NETD):** < 0.02 $^{\circ}\text{C}$ at 30 $^{\circ}\text{C}$ (20 mK)
- **Frame Rate:** up to 258 Hz
- **Dynamic Range:** 14-bit
- **Noise Equivalent Irradiance:** 8.52x10⁹ photons / cm²-s
- **Operation Range:** -40 $^{\circ}\text{C}$ to 90 $^{\circ}\text{C}$
- **Storage Range:** -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
- **Accuracy:** ± 1 $^{\circ}\text{C}$
- **Pixel Operability:** > 99 %
- 75 G Shock / 4 G Vibration
- **Dimensions (without lens):** 71.6 x 61.5 x 61.5 mm (HxWxD $\pm .5$ mm)
- **Power:** DC 12V 5A
- **Weight (without lens):** < 200 g
- USB 2.0 Connection
- Aluminum Enclosure

Lens & Software Options

- Lens options upon request
- C Lens mount
- IR Flash Research Software
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)



Without Lens

Applications

- UAV Integration
- Robotics
- Industrial NIR Imaging
- Laser Instrumentation
- Aerial Imaging
- Firefighting
- Scientific Research
- IR reflectography

