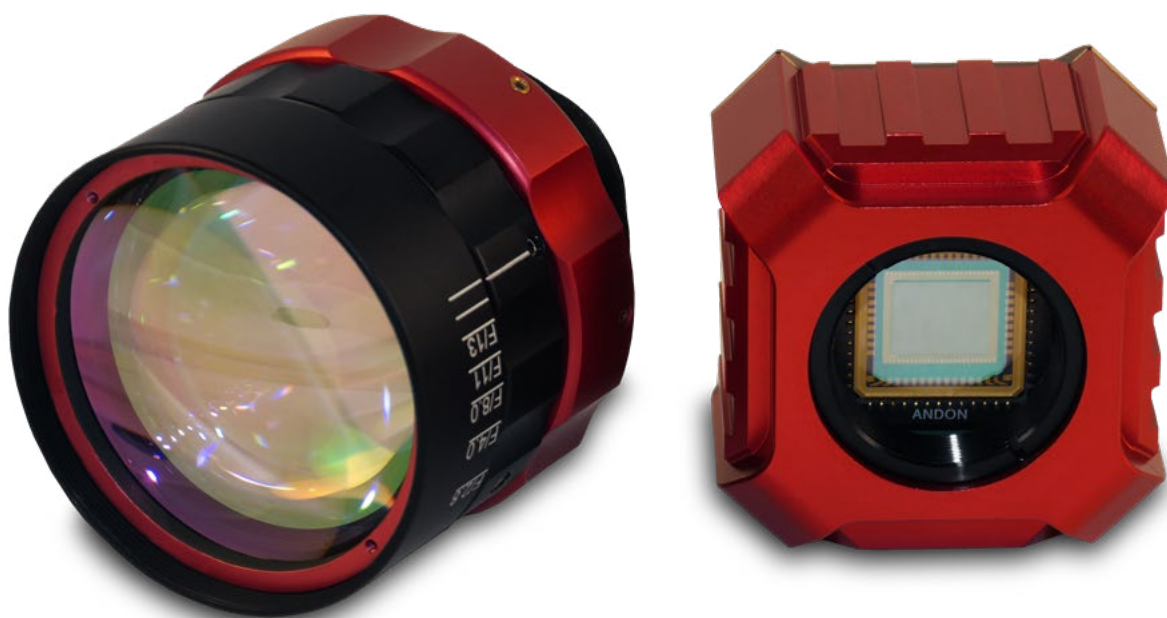


ICI | SWIR 640 P-Series



Lens options on Request

Patent No. 9880552

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We are IR™

ICI | SWIR 640 P-Series

The ICI SWIR infrared camera employs a 640x512 Indium Gallium Arsenide focal plane array, allowing the camera to be highly sensitive to energy in the near-infrared (NIR) and shortwave infrared (SWIR) wavebands from 0.9 μm to 1.7 μm , well beyond the range of silicon CCD Cameras. The ICI SWIR operates on less than 1 W of power, via a USB 2.0 connection, providing real-time 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

- Unparalleled NIR Sensitivity
- USB 2.0 for Power & Data
- Native Wide Dynamic Range
- Aluminum Enclosure
- Small Size
- Light Weight
- Low Power < 1 W

Applications

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

Specifications

- **Detector Array:** FPA (InGaAs)
- **Pixel Pitch:** 15 μm
- **Pixel Resolution:** 640x512
- **Spectral Band:** .9 μm to 1.7 μm
- **Frame Rate:** 60 Hz
- **Dynamic Range:** 14-bit
> 140 dB dynamic range
- **Noise Equivalent Irradiance:**
8.52x10⁹ photons / cm²-s
- **Operation Range:** -40 °C to 90 °C
- **Storage Range:** -40 °C to 70 °C
- **Accuracy:** ± 1 °C
- **Pixel Operability:** > 99 %
- 75 G Shock / 4 G Vibration
- **Dimensions:** without lens
46 x 46 x 29.5 mm (HxWxD $\pm .5$ mm)
- **Weight (without lens):** < 130 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)
- 1/4-20 Bulkhead Mount
- Sensor Control Module

