

Now a portable, ergonomic, battery-operated (400-1700nm) SWIR viewer with integral display and digital video output. Includes a rechargeable battery with USB charger and a custom SWIR optimized objective lens.

FJW Hand-Held SWIR Viewer

Sensor	InGaAs
Spectral Response	0.4 μm to 1.7 μm
Detector Resolution Matrix	VGA, 640 x 480
Pixel Size	5 x 5 microns
Frame Rate	30 Hz
Imaging Mode	Global Shutter
Onboard Display	VGA, OLED
Display Color	Monochrome Green
Power	Rechargeable Lithium-Ion battery includes USB charger
Video Output	Mini DisplayPort can be covered to HDMI using included external adapter
Lens Mount	Accepts M12 and C/CS-Mount Lenses. M12 to C-Mount adapter included
Objective Lens Included	Custom M12, 4.3mm EFL, F1.5, 8-Element focusable lens optimized for SWIR wavelengths
Threaded Filter Mount	M27mm filter mounts
Dimensions	152 x 54 x 178 mm, (6 x 2.2 x 7")
Weight	652 grams (23 ounces)

Common SWIR-View Applications

- Laser Beam Alignment and Profiling
- SWIR Imaging for High Contrast Differentiation
- "See" Through Fog, Rain, Snow and Haze
- Silicon Wafer Inspection
- Silicon Crystal & Ingot Inspection
- Photovoltaic Inspection
- Fruit & Vegetable Inspection
- Thermal Imaging of Glass & Metal Above 250°C
- Imaging Agriculture Applications
- Imaging Content Levels in Plastic Containers
- Small Animal & Other Biotech Imaging
- Examination of Paintings & Artwork
- Legal & Historic Document Analysis



What Is SWIR?

We define near infrared (NIR) typically from 780 nm to 1400 nm and shortwave infrared (SWIR) from 1400 nm to 3000 nm. The NIR/SWIR region has multiple advantages. Since NIR and SWIR wavelengths aren't visible to the human eye, by using NIR/SWIR imaging, we can capture images of objects and see aspects that can't be seen in the visible wavelength range.

Product Delivery: 1st Quarter, 2025