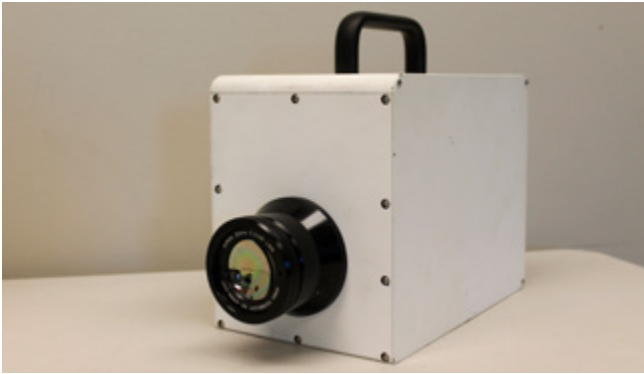


# Corvus LWIR



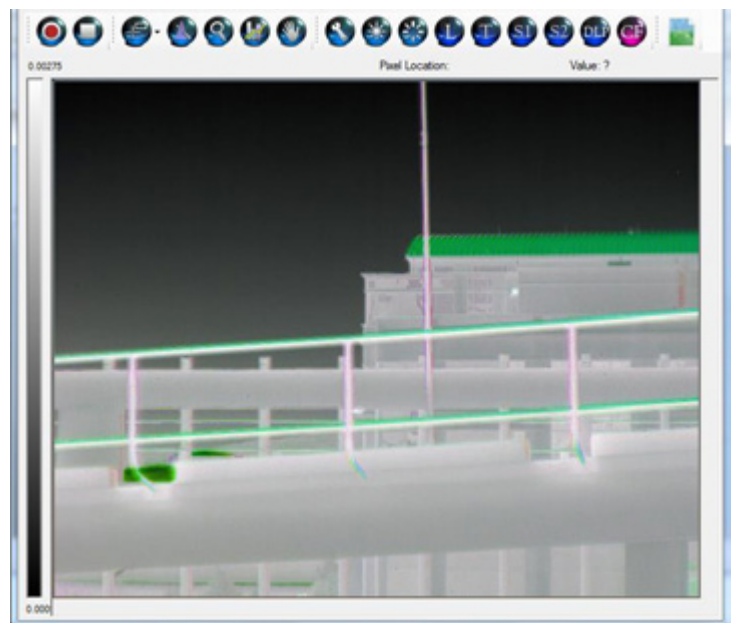
## Summary

- A scientific imaging instrument facilitating the investigation of polarization in the Long-Wave InfraRed (LWIR) band
- Architecture consists of a spinning linear polarizer, allowing the collection of the first three Stokes Vector elements--radiometric (S0), degree of horizontal polarization (S1), and degree of 45° polarization (S2)--on a per-pixel basis
- Provides the Degree of Linear Polarization (DoLP) and Angle of Polarization (AoP)
- Ideally suited for the investigation of polarization phenomenology in scenes that are substantially static
- Powerful software puts you in control of the recording
- Has six different recording options including automatic collection over a long period of time (e.g., several diurnals) and manual control (start / stop)
- Once your data is collected, software further supports full data analysis to export the imagery for reports
- Spatial and temporal averaging of select pixels, pixels areas, or a line of pixels is also supported

## Applications

- Oil on water location
- Disturbed earth location
- Road / pathway location
- Camouflage, concealment, and deception detection
- Facial recognition
- UXO location

Detector	Microbolometer
Waveband	7.5 $\mu$ m-13.5 $\mu$ m
Pixel Pitch	17 $\mu$ m
Resolution (HxV)	640 x 512 pixels
Standard Lens	25mm f/0.85 (others available)
Field of View (Standard Lens)	25° x 20°
Camera Frame Rate	30Hz
Input Voltage	120 VAC
Size with Standard Lens (LxWxH)	10" x 6" x 7.5"
Weight with Standard Lens	9.6 lbs
Data Interface	GigE
Steady Power @ 70°F	20W



Our software provides a simple, intuitive, and powerful interface to sensor control and data analysis.

# Polaris

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