

Pyxis[®] SWIR



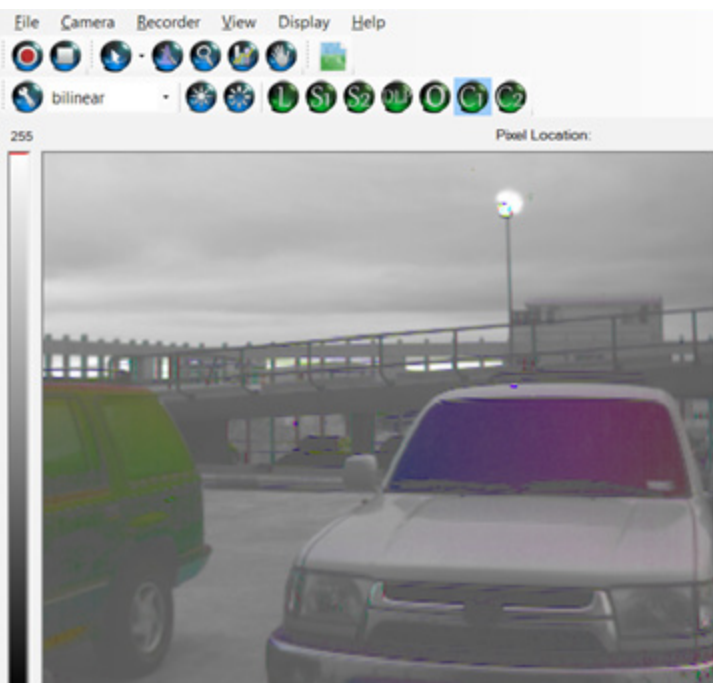
Detector	InGaAs
Waveband	0.9 μ m-1.7 μ m
Pixel Pitch	25 μ m
Resolution (HxV)	640 x 512 pixels
Field of View (Standard Lens)	35° x 29°
Camera Frame Rate	30Hz
Input Voltage	120VAC
Size with Standard Lens (LxWxH)	2" x 2" x 2.5"
Weight with Standard Lens	270g
Data Interface	Camera Link
Steady Power @ 70°F	<2.7W

Summary

- Packs the power of polarimetry into a standard SWIR camera housing with no increase in size, weight, or power.
- Incorporates a linear polarizer at the pixel level similar to the way an RGB Bayer filter is incorporated into a visible waveband camera.
- Has four polarization filters, thus allowing the collection of the first three Stokes Vector elements on a per-pixel basis; namely, radiometric (S0), degree of horizontal polarization (S1), and degree of 45° polarization (S2).
- Ideally suited for the investigation of polarization phenomenology in scenes that are substantially dynamic.
- Powerful software puts you in control of the recording.
- 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, our software further supports full data analysis to export the imagery for reports.
- Supports the investigation of spatial and temporal averaging of select pixels, pixels areas, or a line of pixels

Applications

- Detection of objects on water
- Remote sensing
- Force protection
- Aerial Surveillance
- Phenomenology



Software user interface for Pyxis SWIR showing colorfuse image of cars on parking deck.

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