

Ursa MWIR/LWIR



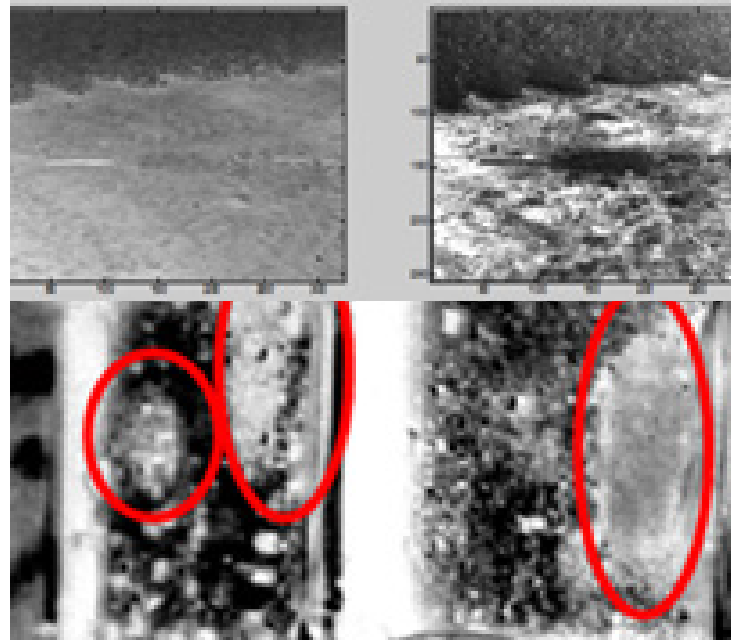
Waveband (MWIR and LWIR)	3.7 μ m-4.95 μ m and 8 μ m-9.4 μ m
Pixel Size	24 μ m x 24 μ m
Resolution (HxV)	640 x 512 pixels
Modes	MWIR; LWIR; DWIR simultaneous
Field of View (Standard Lens)	17.5° x 14°
Camera Frame Rate	30Hz
Focal Length	50mm
Data Products	S0, S1, S2, colorfuse
Operating System	Laptop
Software	Grave' Sensor Control
Size with Standard Lens (LxWxH)	10" x 6" x 7.5"
Weight with Standard Lens	9.6lbs
Data Interface	GigE
Power @ 70°F	24V; 5A

Summary

- Operates simultaneously in the MWIR and LWIR portions of the spectrum
- In a single frame time, orthogonally polarized images are captured in both wavebands
- A polarization or radiometric image can be reported at 30 frames per second in either waveband
- Fully automated and operates with a laptop computer that controls the cameras and the lens over a single GigE cable
- Grave' software displays real-time polarimetric and radiometric data products in either band as well as hybrid data products.
- Easy to use and calibrate

Applications

- Detection of man-made objects in clutter
- Disturbed earth detection
- Improved contrast during thermal cross-over events
- Phenomenology



Example imagery : Detection of disturbed earth through polarimetric images. Standard thermal images failed to reveal disturbed earth.

