

Ursa VIS



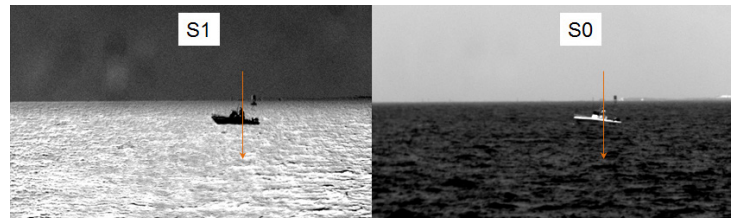
Operating Wavelength	350-800nm
Objective Lens	Any F-mount
Pixel Size	5.5µm square
Resolution (HxV)	1280 x 720 pixels
Sensor Format	0.5"
FPA Size	7mm x 4mm
Stokes Images Measured	S0, S1
Max Frame Rate	20Hz
Shutter Speed	1/250,000-1/68sec
Size without Lens (LxWxH)	7.7" x 7.5" x 5"
Weight without Lens	4.75lbs
Data Interface	GigE
Steady State Power	<15W

Summary

- Uses a special beam splitter block to direct light onto two different CCD cameras to measure the linear polarization content of a scene
- All necessary states of polarization are captured simultaneously to eliminate any motion artifacts
- The system makes very efficient use of light so that short integration times down to 4 µs are possible for stop action sensing
- A data acquisition system streams data synchronously to disk for post analysis

Applications

- Enhanced contrast in marine environments
- Detecting objects in clutter
- Skin diagnostics



Example Data

Polaris

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