

# Ursa High Res VIS



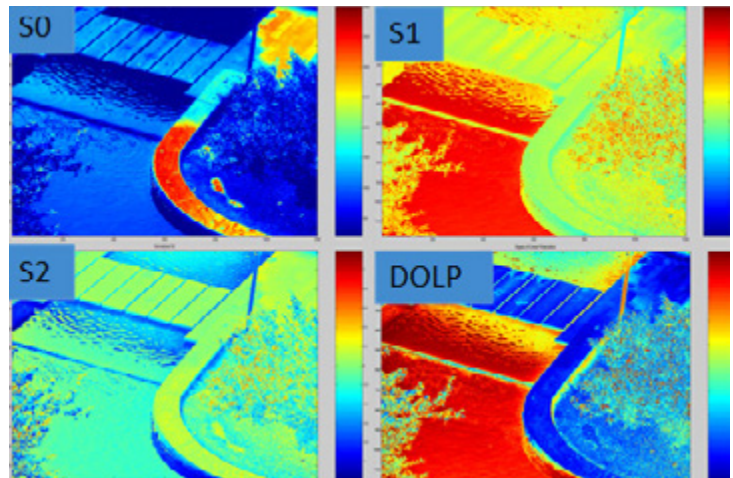
Operating Wavelength	420-520nm
FOV	11° x 11°
Objective Focal Length	45mm
Selectable F/#	3.2, 4, 5.6, 8, 16, 32
Pixel Size	7.4µm square
Resolution (HxV)	1600 x 1200 pixels
FPA Size	11.84mm x 8.88mm
IFOV @ 8 Meters	1.3mm
Stokes Images Measured	S0, S1, S2
Max Frame Rate	15Hz
Integration Time	1µsec-10msec
Size with Standard Lens (LxWxH)	14" x 5" x 10"
Weight with Standard Lens	15lbs
Working Distance	1m - infinity

## Summary

- Uses a special beam splitter block to direct light onto four different high resolution CCD cameras to measure the linear polarization content of a scene at high resolution
- 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 1ms are possible for stop action sensing
- A data acquisition system streams data synchronously to disk for post analysis

## Applications

- Determining surface geometries
- Detecting objects in clutter
- Measuring water wave slopes at high speed
- Skin diagnostics



Example of high resolution polarimetry taken from the air of a stream in a park.

**Polaris**  
Sensor Technologies, Inc.

200 Westside Square, Suite 320 | Huntsville, Alabama 35801  
256.562.0087 | info@PolarisSensor.com | www.PolarisSensor.com  
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