

# Corvus VIS/NIR



Detector Waveband	RGB and NIR
Pixel Pitch	4.65µm
Resolution (HxV)	1024 x 768 pixels
Standard Lens	10mm
Field of View (Standard Lens)	26.4° x 19.8°
I FOV	0.47mrad
Camera Frame Rate	30fps
Bit Depth	10bit
Input Voltage	110V
Size with Standard Lens (LxWxH)	10" x 5" x 7"
Weight with Standard Lens	6lbs
Data Interface	GigE
Environmental	-10C to 40C (light mist/rain)
Polarization States Measured	S0, S1, S2

## Summary

- Imaging polarimeter that operates simultaneously in the Vis and NIR portions of the spectrum
- In the Visible (400-700nm), produces RGB images of linear polarization
- NIR (700-950nm) produces broadband NIR images of linear polarization
- Fully automated, controlled with laptop computer running Grave' polarimetric software
- Connects to laptop with single GigE cable
- Temperature stabilized for extreme environments
- Additional software included for data reduction and application of calibration factors

## Applications

- Determining optimal path through ice for ice breaking ocean vessels
- Discriminator between ice types
- Surveillance
- Remote Sensing
- Taggant detection
- General polarimetric phenomenology



Corvus Vis/NIR captures spatially and temporally registered Visible RGB and NIR polarimetric images. VIS (left), NIR (right).

**Polaris**  
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