

Product

VIS Line Scanner Visible Line Scanner

OPTImare
INDIA

APPLICATION

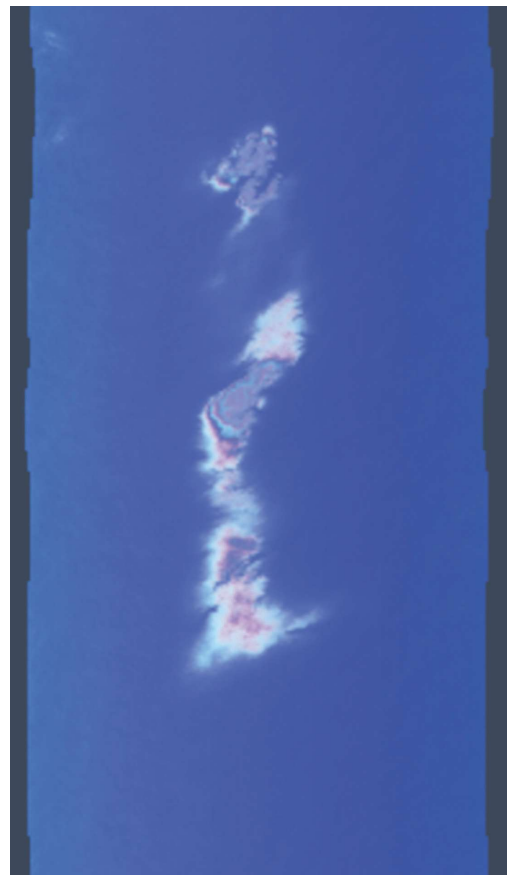
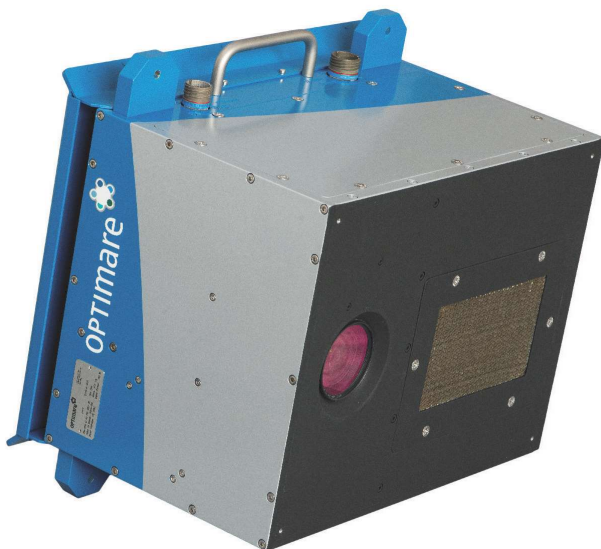
- Airborne Remote Sensing in the visible wavelength range
- Detection of features on the sea surface such as oil spills, chemical plumes and biogenic slicks
- Acquisition of highly resolved geo-referenced RGB composite images
- Documentation of the oil spill scene

Visible remote sensing of marine pollution using the VIS Line Scanner

The OPTIMARE VIS Line Scanner has been established as a supplementary tool for various airborne remote sensing applications, like for example airborne maritime surveillance.

The *VIS Line Scanner* is a ruggedized, lightweight remote sensor for earth observation at visible wavelengths.

In maritime surveillance, the system is used for acquisition of highly resolved geo-referenced Red/Green/Blue composite images. These images can be used for documentation and for more exact volume estimations based on oil appearance codes.





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SPECIFICATION	
Mechanical properties	
Dimensions	388 mm x 381 mm x 270 mm
Mass	14.6 kg
Stand-alone/Module	VIS Line Scanner is connected to a mission computer
Optical detectors	
Type	RGB Line Camera
Number of channels	3
Spectral sensitivity	400 nm to 490 nm (blue) 500 nm to 570 nm (green) 580 nm to 660 nm (red)
Scanning Systems	
Scanning method	Across-track scanning
Line rate	20 Hz
Field of View (FOV)	90 deg
Instantaneous Field of View (IFOV)	max. 0.8 mrad (depending on configuration)
Altitude of operation	Typically 1,000 ft (higher altitude operation possible)
Power/Fuel supply	
Current	7 A @ 28 VDC
Voltage	28 VDC (nominal), 20 VDC - 32 VDC
Communication/Interface	
Network connection	Copper or fiber-optic ethernet
Operating/Storage conditions	
Ground survival temperature	-55 °C ... +60 °C
Operating temperature	-40 °C ... +55 °C
Altitude/Pressure	41,000 ft (storage); 15,000 ft (operating)
Vibration	RTCA/DO-160G, Section 8, Category S, Curve L (random)
Humidity	RTCA/DO-160G, Section 6, Category B
Standards	
Environmental qualification	In accordance with RTCA/DO-160G
Electromagnetic compatibility	In accordance with RTCA/DO-160G

*Subject to technical changes and misprints
April, 2021*