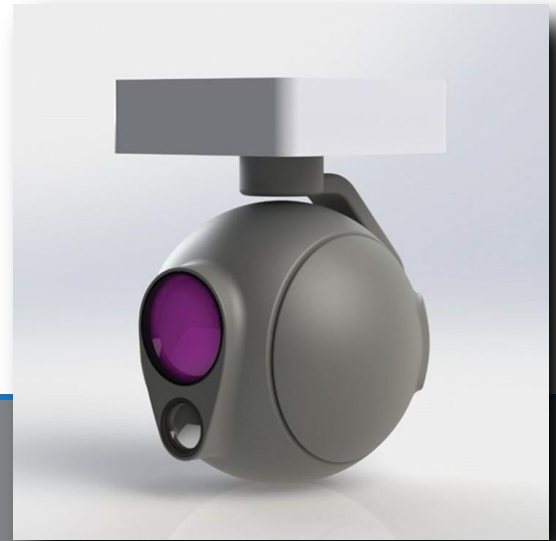




OSCAR™

Oil Spill Cleanup and Response

Gen 3.0



The Oil-Spill-Cleanup-and-Response (OSCAR) sensor system is an unmanned aircraft payload that addresses three things.

- Where is the oil?
- How extensive is it?
- How do I disseminate data to my team about this spill event?

Fully integrated into a stabilized housing, the OSCAR payload utilizes polarized LWIR technology to detect liquid petrochemicals.

When a spill is detected, reports are generated with a single button push. Upon landing, reports are ready to be sent to the Command Center for immediate delegation of response.

FEATURES



Fully-integrated processing unit (aircraft independent)



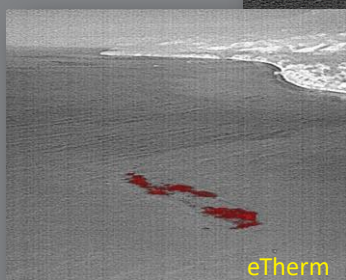
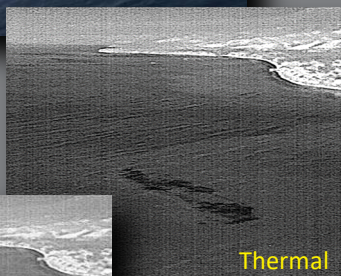
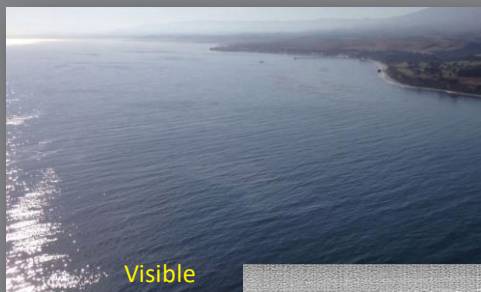
Pyxis® Polarized LWIR Infrared Sensor with optical zoom capability



Fully integrated 3D sensor ball on a developed gimbal



Interoperability across multiple aircraft types



Primary Specifications

Primary On-Board Sensor	Pyxis w/ 40mm lens (7.5 Hz frame rate) 25-105mm lens
Secondary On-Board Sensor	Visible (Electro-Optical)
Zoom Control	Controlled through Pilot Command
Inertial Measurement Unit	Integrated
Onboard Processor	Integrated
Onboard Memory	USB Flash

OSCAR Reporting

Real-time Reporting at the click of a button



The OSCAR System features an independent onboard computer that automatically processes, disseminates, and generates imagery reports based on customer-specific requirements including:

- Visible Image
 - Polarized Image
 - GPS Coordinates
 - GPS Heading
 - Time Stamp
 - Altitude
 - Notes Section
 - Operator Information
- Also included:
 - Full Resolution Visible Imagery
 - Full Resolution Polarized Imagery



OSCAR Report



Drone Serial Number: 7774
Date and Time: 17 Nov, 2020 - 13:33:20 UTC
GPS Location: 34.730208°, -86.586725°
GPS Altitude: 405 m MSL
GPS Heading: E



Pyxis Image



Visible Image



“Top 5 Oil Spill Cleanup Solutions 2021” – **startUS**
INSIGHTS

