

Oil Spill Cleanup And Response

POWERED BY -



HIGH PERFORMANCE 6-INCH STABILIZED EO/POLARIZED LWIR LIQUID HYDROCARBON DETECTION SYSTEM FOR SMALL UNMANNED AIRCRAFT

- **DETECTS LIQUID HYDROCARBONS**Superior detection of emulsified oil, crude, refined oil, diesel & Jet-A; Insensitive to biologicals
- PYXIS POLORIZED INFRARED SENSOR
 Real-time polarized imagery
- INFARED OPTICAL ZOOM
 10 to 105mm optical zoom lens
- THERMAL AND VISIBLE CAMERAS

 Day and day/night operations with a single payload
- ITAR FREE
 Non-controlled configurations available

- INSTANT REPORT GENERATION
 Integrated software for one click PDF
 report generation
- **eTHERM IMAGING**400% better detail and contrast than thermal
- Rembed Processing Unit
 No additional software for oil detection needed
- ONBOARD GPS/ INS

 Accurate real-time aircraft and image location
- META DATA

 CSV metadata for use in mapping applications





SOFTWARE

FEATURES

- Onboard eTherm LWIR processing
- · One click report generation software; includes eTherm image, EO Image, sensor location, altitude direction and angle
- CSV metadata for use in mapping applications
- Removable USB data storage
- Pyxis Vision Software included
- · Field upgradeable software

REAL-TIME DETECTION

- Detects pooling hydrocarbons on water, around pipelines and beaches
 - . Jet-A | Crude | Diesel
 - Emulsified Oil | Refined Oil
- Insensitive to kelp and algae
- Day and night airborne spill detection and monitoring
- Colorized eTherm image data and video; oil appears red
- Optomized for single pilot operation

MECHANICAL

SPECS

- Hybrid aluminum and composite construction
- Payload weight 4.3 lbs
- 14,500ft MSL | 0-90% Humidity 0-60C Temp
- · Universal mount
- 3-axis closed-loop stabilization

5.99"



ELECTRICAL

- Gimbal control over serial
- Mini HDMI video connector
- 16W Typical at 24V input, Maxium 110W Peak
- 24VDC regulated input (21.8V - 25.4V)
- GPS L1C/A, GLONASS L10F, BeiDou B11

- GPS Connector: CAN2
- Multiple control/monitor interfaces
 - **UART**
 - Sbus
 - Micro USB
 - PWM

CAMERA CONFIGURATION

	Pyxis LWIR 640-G / Zoom Lens			16mm Visible Global Shutter
RES	640 x 512			1440 x 1080
FL	75mm	35mm	15mm	16mm
HFOV	8.3 Deg	17.7 Deg	39.9 Deg	17.6 Deg
VFOV	6.6 Deg	14.2 Deg	32.4 Deg	13.3 Deg