PT-6 with Integrator is a comprehensive smart sensor solution that combines state-of-the-art, automated wide-area search capabilities with high-powered zoom optics, across multiple spectral bands—all on a long-endurance platform that delivers unparalleled, around-the-clock maritime ISR capabilities.

Automated wide-area search
- Scans wide areas for objects of interest, processes imagery on the edge, and provides real-time information to operators, networked payload, or mission management system.
- Designate automated search areas and detection thresholds based on mission parameters to optimize sensor/software operation.

Improved operator efficiency
PT-6 automates the labor-intensive role of searching for small targets of interest in large areas, often in challenging conditions.

Multi-mission capabilities
Enables a wide variety of mission capabilities, from maritime search and ISR to land-based tactical intelligence, inspection and mapping, custom object detection, change detection, and more.

The most versatile UAS in its class
Integrator offers 24+ hours of endurance and is designed to easily integrate modular, field-swappable, multi-INT payloads (up to 40 pounds across six bays) with plenty of onboard power to spare.

Increased field of view
Automatically scans in a step-stare pattern that sweeps across the flight track to provide significantly increased search coverage area.

Day and night search
Equipped with HD RGB and HD LWIR sensors. Nighttime heat/object detections, particularly in maritime environments, are aided by the contrast of thermal signatures against a uniform body of water.
Integrator with PT-6
Automated Maritime Wide-Area Search

Versatile, smart sensor designed to meet ISR mission demands

PT-6 SPECIFICATIONS

PAYLOAD SWAP:
- Size: 23.6 in x 3.75 in (95 mm x 600 mm)
- Weight: 5.5 lb (2.5 kg)
- Power: 42 W

MOUNTING: Standard CG bay mounting

ONBOARD SENSORS:
- Sensor 1: RGB Color
  - 12.3 MP (4096 x 3000)
  - Rolling shutter
- Sensor 2: HD LWIR
  - 1.3 MP (1280 x 1024)
  - 8-14 micron

COMMAND CONTROL: Ethernet

USER INTERFACE: Browser-based, hosted on payload

GPS INS:
- Novatel survey-grade GPS
- Single L1 antenna

STABILIZATION: Active roll

PT-6 DETECTION RANGES AND COVERAGE EXAMPLES (*Assumes 55 kts)

<table>
<thead>
<tr>
<th>Target Size</th>
<th>Altitude (AGL)</th>
<th>Detection Range</th>
<th>Search Swath</th>
<th>Coverage Rate (per hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 m life raft</td>
<td>1000 ft (305 m)</td>
<td>2 NM (3.7 km)</td>
<td>4 NM (7 km)</td>
<td>220 NM² (755 km²)</td>
</tr>
<tr>
<td>19 m vessel</td>
<td>5000 ft (1500 m)</td>
<td>10 NM (18.5 km)</td>
<td>20 NM (37 km)</td>
<td>1100 NM² (3773 km²)</td>
</tr>
<tr>
<td>50+ m vessel</td>
<td>5000 ft (1500 m)</td>
<td>17 NM (31.5 km)</td>
<td>34 NM (63 km)</td>
<td>1870 NM² (6414 km²)</td>
</tr>
</tbody>
</table>

*PT-6 is developed and produced by Overwatch Imaging*

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