Integrator with PT-6

Automated Maritime Wide-Area Search

Search, interrogate, prosecute from one long endurance platform



UNMANNED AIRCRAFT SYSTEMS



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.

KEY FEATURES & BENEFITS

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.

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.

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.



1.4 MILLION FLIGHT HOURS

50 GLOBAL SITES OF OPERATION MODULAR FAMILY OF SYSTEMS

SERVICES, ACQUISITION AND FMS

Integrator with PT-6

Automated Maritime Wide-Area Search

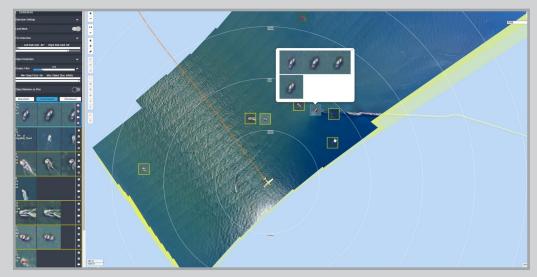
Versatile, smart sensor designed to meet ISR mission demands



PT-6 SPECIFICATIONS

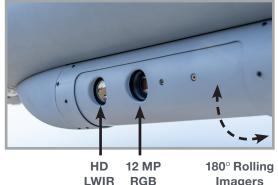
Overwatch AI software automatically controls sensor operation to continually scan a search area; processes data in real-time on the edge; and notifies the operator or networked payload with geolocated image data of detected objects that warrant

further review.



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

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



RGB Color

Imagers

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 is developed and produced by Overwatch Imaging