AMPS™-NG

Advanced Multi-sensor Payload System - New Generation

Advanced multi-sensor payload system for extreme long-range surveillance

The AMPS-NG system is a sophisticated, best-in-class target acquisition and surveillance system for extremely long ranges, specially designed for complex intelligence missions. Equipped with a full suite mission and control system, AMPS-NG integrates on manned and unmanned platforms, operable day and night and in adverse weather conditions.

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ISTAR & EW

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High-performance operational capabilities

The AMPS-NG is optimized for very long-range imaging, to enhance and increase the throughput of target intelligence production. The system features autonomous navigation with an inertial system and GPS, as well as highly accurate geo-pointing and geo-location capabilities.

Multi-sensor payload configuration: Uniquely designed to accommodate multiple electro-optical channels in a modular configuration. The system features two separate yet fully integrated optical benches, an optical bench with multiple channels (Daylight, MWIR and SWIR), and a large 10" thermal sensor.

Advanced image processing: Full image processing algorithms suite to enhance video signals delivered by the imaging channels, designed and optimized for each imaging channel.

Multi-spectral image blending: Highly accurate multi-spectral image registration techniques create a single image from a pair of MWIR and visible images, MWIR and SWIR images, SWIR and visible images.

Automated Video Tracking (AVT): A multi-mode AVT performs target video auto-tracking on a selected target in an operator-selected imaging channel. The tracker receives incoming video and returns the calculated spatial coordinate signals to the line-of-sight steering system, which converts it into commands to drive the appropriate servo. The AVT tracks static and moving targets in open country, built up areas, overhead cover and through partial obscuration.

Key Features

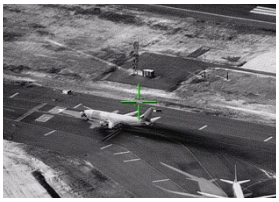
- Extra long-range observation
- Multiple E/O channels
- Automated video tracking
- Advanced image processing

Key Benefits

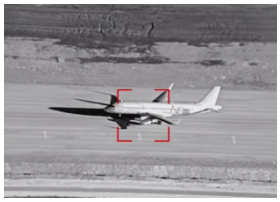
- Operational day/night and in adverse weather
- Near and far intelligence operations
- Integrates on manned and unmanned platforms

Naval Cranes
1,500', 10Km

Ships in port
20,000', 20Km



MWIR



SWIR

VIS Color

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