

PLUTO

High-end VHR Earth Observation Payload



Empowered by three decades of space heritage, 100% mission success, state of the art development and manufacturing technologies, Pluto is the most advanced high-end Remote Sensing space Payload developed by Elbit Systems ISTAR & EW Division for Micro satellites.

Featuring best of class performance, low Size Weight and Power, Pluto Payload's high-quality data, enables diverse applications for defense, commercial and scientific customers.

Pluto unified aperture design, enables easy integration with diverse satellite platforms, making it an ideal Payload for VHR Earth Observation satellites and constellations.

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Applicative and Operational Excellence

Pluto's multiple operational modes, agile scanning patterns and selective utilization of spectral channels per mission needs, enables user-centric applications, realizing mission goals that result in operational excellence.

Designed for Multi-Domain GEOINT applications

Leveraging Elbit Systems' data extraction engines and analytics tools, the data collected by Pluto payload is inherently designed to support various GEOINT and Multi-Domain intelligence platforms.

Multi-mission applications

The Pluto family of payloads is suitable for a variety of applications, including border control, disaster/environmental monitoring, emergency planning and operations, materials identification, agriculture management and critical infrastructure protection. In addition, the solution offers advanced surveillance and reconnaissance capabilities.

Key Features & Benefits

- Small Size, Weight and Power (SWaP)
- Modular design supporting multi-purpose configuration as per customer needs
- Various imaging modes enabling advanced analytics (ATR, MTI etc.) and AI-driven targets investigation
- Unified aperture for spectral band

Given its unique characteristics, Pluto is an ideal building block for satellite's constellations, supporting applications such as disaster management, environmental monitoring, and urban development planning and operations.

Technical Specification

- PAN GSD @ 500Km	<50cm
- MS GSD @ 500Km	<100cm
- Swath @ 500Km	>5.3Km
- Aperture	50cm
- PAN & MS Spectral range (μm)	0.45 - 0.9
- MS spectral channels	Up to 6 channels (configurable)
- Thermal IR	Configurable
- Video	RGB optional
- Mass (Kg)	<50
- Peak Power (W)	<100
- Lifetime (Yr)	Designed for 5 years



Elbit Systems Ltd.

Advanced Technology Center, P.O.B 539, Haifa 3100401, Israel

E-mail: istar@elbitsystems.com www.elbitsystems.com

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