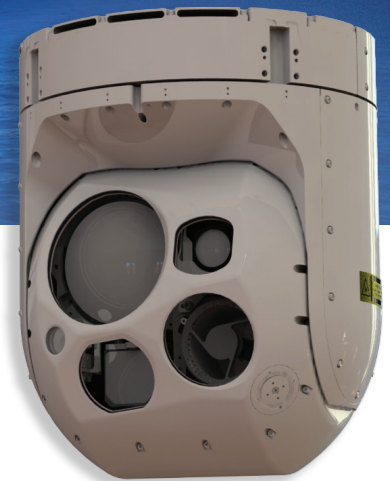


SPECTRO™ 12

New Class of Multispectral Electro-Optical Systems



Full-Scale Performance in a Compact Design.

SPECTRO 12 is a compact electro-optical payload designed to deliver advanced intelligence, surveillance, reconnaissance and targeting (ISTAR) capabilities.

Derived from Elbit Systems' proven 15" Class payload technologies, it integrates high-resolution multispectral sensors, Elbit Systems' signature precision targeting subsystems and advanced onboard processing, into a fully digital single-LRU architecture.

The system is specifically engineered to provide high level and effective detection, recognition and identification (DRI) performance, while remaining compatible with SWaP-constrained platforms such as UAVs, light helicopters, maritime vessels and light tactical vehicles.

SPECTRO 12 delivers superior DRI, enhanced laser targeting capability and greater multispectral operational performance than typical payloads in its class, enabled by large-aperture optics, high-resolution sensors and advanced on-board processing.

SPECTRO 12 integrates in-house developed optics and laser target designator, ensuring full control over system coherence, accuracy and end-to-end targeting performance.

SPECTRO™ 12

New Class of Multispectral Electro-Optical Systems

Key Features

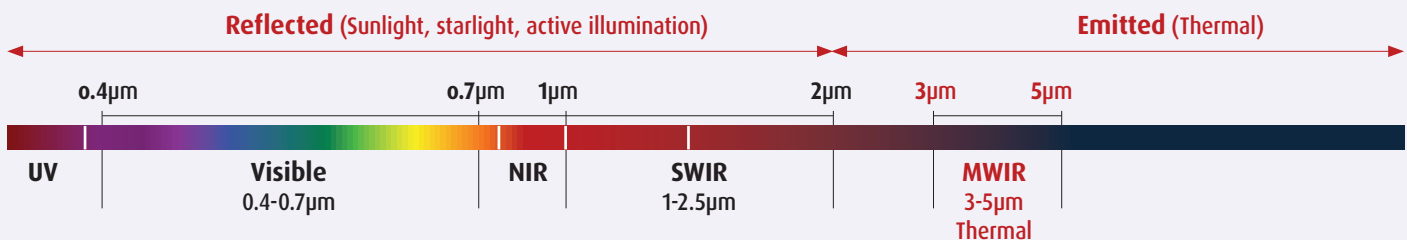
- Unique 12" Class payload
- Extended DRI performance
- AI-powered sensor and image processing
- High precision targeting
- Effective operation under adverse weather conditions
- High-end ISR for SWaP-constrained platforms
- Modular, interoperable configuration
- In-house optics and laser designator



Technical Specifications

Feature	Specification
FHD Thermal Imager	HOT MWIR detector
4K Day Channel	VIS-NIR CMOS detector
HD SWIR Channel	InGaAs detector
Laser Target Designator	STANAG 3733 compliant, Cat D1 Class 4
Laser Rangefinder	1.54 μm , Class 1 (Eye-Safe)
Laser Pointer	830(± 20) nm Class 3B
Stabilization	4-axis, gyro-stabilized, isolated optical bench
Field of Regard	Az: N x 360°, El: -25° to +88°
Navigation	On-bench INS, GPS
Data Interfaces	Ethernet, Serial, Mil-STD 1553
Power	28 VDC, MIL-STD-704 compliant
Video Interface	HD-SDI and/or Analog, 5 simultaneous channels
Image Processing	ATR, VMD, MTI, PIP & Blending, multi-target video tracking, image enhancement
Physical	Weight 25kg, Diameter 320mm, Height 374mm
Power	350w (Average)

Sensors Across The EO Spectrum



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