

COAPS™-D

High-Performance, Panoramic Targeting System
Incorporating Ruggedized Laser Target Designator

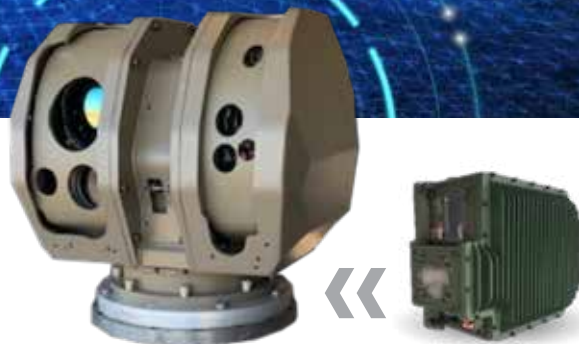


COAPS-D (Common Open Architecture Panoramic Sight-D) is a dual-axis, stabilized, panoramic EO/IR sighting system providing advanced multi-channel observation, surveillance, target acquisition and laser designation. Leveraging cutting-edge sensors and sophisticated video analytics, the sight delivers superior performance across a wide range of operational scenarios.

Part of Elbit Systems' COAPS product family, COAPS-D is a next-generation system with modular architecture and platform-agnostic design, enabling seamless integration with many types of MBTs and IFVs.

Sensors and Image Processing

COAPS-D features an EO/IR payload incorporating an SXGA MWIR thermal channel, a full HD VIS-NIR channel, an ELRF (Eye-safe Laser Rangefinder), a best-in-class Designator Module, an integrated Video Tracker and an optional NIR Pointer. A dedicated MWIR "See-Spot" channel enhances 24/7 designation performance. The sight can optionally incorporate AI powered autonomous WAPS (Wide Area Persistent Surveillance) with ATR (Automatic Target Recognition) and VMD (Video Motion Detection). These capabilities enable rapid threat search, detection and classification; reduce operator workload and support faster, smarter decision-making. The video analytics engine improves imagery, fuses sensor channels and ensures precise alignment through automatic boresighting – delivering a robust and responsive surveillance and targeting solution.



COAPS™-D

Precision Delivered. Dominance Secured.

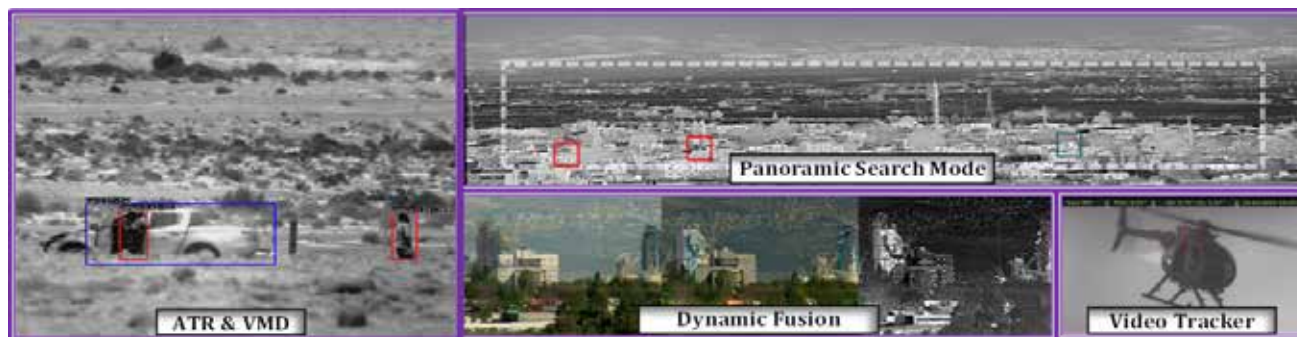
Key Features

- Excellent DRI ranges with high-end sensors and top-tier optics
- Superior LOS stabilization for precise sensor alignment in dynamic conditions
- High-end NATO STANAG 3733 Laser Designator
- Advanced video analytics
- Modular configuration providing interoperability
- Seamless integration with C2 and FCS systems
- Full hunter-killer and killer-killer capabilities
- Commander and gunner configurations
- Day/night operation under harsh conditions
- Built-in ballistic armor protection

Technical Specification

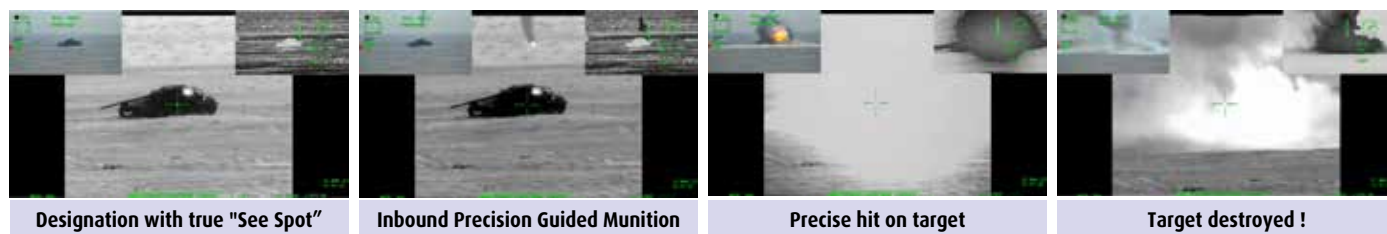
Feature	Specification
Thermal Imager	Cooled SXGA MWIR, continuous zoom 2°-27°
Day Camera	FHD CMOS VIS-NIR, continuous zoom 2°-27°
MWIR "See Spot" Channel	VGA MWIR Single FOV with 1.064 nm filter (Very Narrow 1.4°)
Laser Rangefinder	1.540 µm (Class 1 Eye-safe)
Laser Designator	1064 nm (Class 4), 70 mJ, < 250 µRad divergence
NIR Pointer	850 nm (Class 3B) [Optional]
Stabilization	Dual-axis, gyro-stabilized, < 50 µRad
Motion Span	Panoramic: Azimuth 360° xN Elevation -20° to +60°
Data Interfaces	MIL-STD-1553, CAN bus, Ethernet
Power, Weight	28 VDC, MIL-STD-1275 compliant, 116 kg (w/o Shield)
Video Interface	HD-SDI, 4 simultaneous channels, 2 fused channels
Analytics [Optional]	ATR, VMD, fusion, auto-boresight, video tracking, image boost and improvement

Advanced Video Analytics



Designation Capability

COAPS-D delivers continuous, highly accurate and reliable laser designation 24/7, in all weather conditions and under the harshest combat scenarios. The integrated video tracker locks onto the laser 'spot' itself, ensuring uninterrupted designation even while both platform and target are on the move. Below is a demonstration of the designation process:



Elbit Systems Ltd.
E-mail: istar@elbitsystems.com www.elbitsystems.com

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