COAPS™-L

High-Performance, Light-weight day & night Panoramic Sight

The COAPS-L is a Stabilized Panoramic Sight that provides multichannel target detection, acquisition and tracking capabilities using high-end sensors and advanced video processing. Lightweight, compact, modular and cost-effective, the COAPS-L can be integrated with MBTs, IFVs, Armored Cars, Light Tactical Vehicles and Unmanned Ground Vehicles. Additionally, the COAPS-L can be integrated with Counter-Unmanned Aerial Systems (C-UAS), enhancing its capability to detect and identify aerial threats.

Modular configuration for best-in-class functionality

COAPS-L features advanced sensors and image processing capabilities in a unique add-on system. This modular solution is designed to provide long-range day and night target acquisition in stationary or on-the-move operations.
The solution's open architecture supports integration with Command & Control (C2) systems and Fire Control Systems (FCS), enabling a Hunter-Killer capability. Its integration with C-UASs ensures comprehensive protection against UASs, making it a versatile solution for modern battlefield survivability requirements.

Uniquely configured with compact dimensions, the system features a small mechanical interface to the platform and minimal volume inside a turret or vehicle.

Elbit Systems™
ISTAR & EW

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Sensors and Image Processing:

COAPS-L features advanced Sensors and Image Processing that includes a 3-5µm Thermal Channel, a full HD Color Camera Day Channel, an Eye-safe Laser Rangefinder (ELRF) and an integrated Video Tracker with a NIR Pointer (optional).

Stabilization and payload:

This all-in-one unit includes Control Electronics and interfaces with a Line-Of-Sight (LOS) Gyro-Stabilized Gimbal (Azimuth and Elevation Axes). Operational modes include point stabilization, slave-to-gun, slew-to-cue and tracking.

Key features

- Lightweight and compact
- 360º x N travel in Azimuth, -20° to +80° in Elevation
- Modular configuration & installation on various platforms
- Video analytics capabilities (Video Analytics Unit required)
- Commander or Gunner configuration
- C-UAS configuration
- Day/Night operation in harsh environments
- Advanced Sensor and Image Processing
- Simple to handle by operators and maintenance personnel
- Optional ballistic armor protection
- Cost-effective

Multiple Installation Options

Technical Specifications

Sight	
LOS motion span	AZ: 360º xN EL: -20º to 80º
Stabilization accuracy	≤ 0.1 mrad* *Depends on vibration profile
Positioning/slaving accuracy	≤ 0.200 mrad
Weight	42kg

Eye-safe Laser Rangefinder (ELRF)	
Wavelength	1.540µm ± 5µm
Range (2.3x2.3 NATO target)	50m to 7km
Max range	20km
Range accuracy	± 5m
Safety class	Class I

Sensors	Thermal Channel		Day Channel VIS
	Standard	Extended	
Spectral range	3µm – 5µm		Color: 400nm – 700nm Full - (B/W): 400µm – 1000µm (user selectable)
Detector	640x512 / 15µ	1280x1024 / 10µ	Color CMOS 1/1.8, 3.19MEP
Video interface	PAL (4:3) and HD-SDI (16:9)		PAL (4:3) and HD-SDI (16:9)
FOV cont. zoom	1.5° – 27°	2° - 27°	2° – 27°
E-Zoom	x2	x2	x4
DRI performance (NATO 2.3x2.3) Detection Recognition Identification	 20km 8.7km 4.4km	 22km 10.1km 5.6km	 14km 9.5km 5.7km

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