Naval Laser Warning Systems

Fully customizable solution for the detection and identification of laser threats

In a littoral environment where attacks can be difficult to detect, Elbit Systems' extensive range of laser warning systems (LWS) provide sea vessels of all sizes with instant and accurate threat detection and identification capabilities. The LWS offers 360-degree threat coverage from laser-guided bombs and missiles, air and shore-based designators, rangefinders, beam riders and more, enhancing the ship's survivability and improving its mission effectiveness.

Range of Systems

Elbit Systems' Enhanced Laser Warning System (ELAWS), Threat Detection System (TDS) and lightweight mobile Laser Warning System (mLWS) detect, categorize and pinpoint laser sources from the ever-evolving threat to the seas. The company's range of systems allows for onboard training and includes built-in test mechanisms.

Elbit Systems™
Land

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Superior Performance

With options of being incorporated into the ship's C4I system or as a stand-alone installation, the LWS features a high detection probability and a low false-alarm rate. The advanced, high-speed processing and communications capabilities, combined with electro-optical operation, provide accurate and dependable performance in a broad range of naval platforms. In addition, the system is immune to false alarms triggered by reflections, lightning and gunfire as well as self-RF and electro-optical operations. The range of LWS are fully field-proven and in use around the world.

Highly Customizable - all of these systems incorporate an independent and user controlled threat library, can be tailored to meet a broad range of threats, provide the required degree of accuracy. Whether installed as a stand-alone system or integrated with countermeasures, the system can be easily fitted to a wide range of naval platforms, from patrol boats to corvettes and frigates.

ELAWS for Frigate class vessels

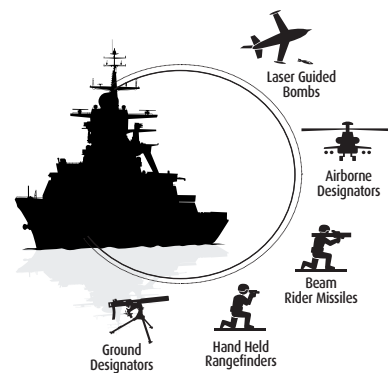TDS for Light Patrol class vessels

Key Features

- Independent, user-controlled threat library
- Direction indication for all types of threats
- Downloadable and erasable log files
- Onboard training available
- Built-in test mechanisms

Operational Benefits

- Fully customizable to provide the required degree of accuracy
- Detects, categorizes and pinpoints laser threats
- Full hemispherical active threat coverage
- Can be Integrated with a range of advanced countermeasures
- High detection probability and low false-alarm rate

Direction Accuracy	up to 2°
Elevation Coverage	-20° to 90°
Azimuth Coverage	360°
Spectral Range	0.5 microns to 1.6 microns
Ethernet/RS422/CANBUS/RS232 communications	
Meets MIL-STD-standards 461D, 462E, 810E and others	

Laser Guided Bombs

Airborne Designators

Beam Rider Missiles

Ground Designators

Hand Held Rangefinders

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