

# KNOW BEFORE YOU GO™



## Providing confidence and reliability through total spectrum test and training solutions.

The Phoenix Lite is a medium-range electro-optic system designed to stimulate one- and two-color infrared (IR) missile warning systems, as well as directed IR countermeasure, or DIRCM, fine-track sensors. It is utilized as a developmental and operational test and evaluation tool, as well as a training aid for aircraft self-protection system aircrew training.

Designed to serve as a remote-control adjunct to an existing threat simulator or as a stand-alone unit, the Phoenix Lite operates from typical standoff ranges of 500-3,000 meters (m) from the IR missile warning system.

Two models of the ruggedized, military (MIL) specification system are available to address the full range of requirements. The Red Phoenix Lite is designed for applications in the IR missile warner's red band of interest, while the Blue Phoenix Lite addresses its blue band of interest.

The Phoenix Lite can be operated remotely using a communication serial data bus, and an optional management software package is available for remote control using a Recommended Standard (RS) 232/422 serial port. The Phoenix Lite can be integrated fully with the Mallina and Mallina accessories, allowing the creation of customer-specific multispectral simulators.

## Phoenix Lite Missile Warning System Test Set

Part Numbers: EU02170-01-FG (Red Phoenix Lite)  
 EU02171-01-FG (Blue Phoenix Lite)  
 EU02178-01-FG (Red Phoenix Lite with laser countermeasure detection)

Specifications subject to change without notice.

## Specifications

Performance:	Customer selectable:	Red Phoenix Lite Red band A single-wavelength, 0.1-micron line within the above bands	Blue Phoenix Lite Blue band
	<ul style="list-style-type: none"> <li>■ Semiconductor laser technology</li> <li>■ On-axis radiant intensity greater than or equal to 300 watts per steradian, or W/sr, maximum average</li> <li>■ Beam divergence greater than or equal to 1 degree circular (half power)</li> <li>■ Alternative beam divergence (i.e., 3 degrees) and dual field of view are available upon customer request</li> <li>■ Dynamic range greater than or equal to 26 decibels (dB) (single engagement)</li> <li>■ Total dynamic range greater than or equal to 36 dB, 10 dB from amplitude variation</li> <li>■ Temporal bandwidth 200 hertz to 3 kilohertz</li> <li>■ System rise time less than 100 microseconds from zero to 100 percent</li> <li>■ Maximum IR profile duration 30 seconds</li> <li>■ Optical aperture diameter 25.4 millimeters (mm)</li> <li>■ No visible output</li> </ul>		
Eye safety:	<ul style="list-style-type: none"> <li>■ Laser Class 3R</li> <li>■ Nominal ocular hazard distance, or NOHD, less than 1 m</li> </ul>		
Controls:	<ul style="list-style-type: none"> <li>■ Program selection, execute and abort</li> <li>■ Removable safety interlock key, which disables the program execute function</li> <li>■ Remote control via RS 232/422 interface</li> <li>■ Remote trigger input by simple contact closure switch</li> </ul>		
Indicators:	<ul style="list-style-type: none"> <li>■ Current test program selection</li> <li>■ Built-in test results</li> <li>■ Program running</li> <li>■ Unit ready/standby</li> <li>■ Power available (electrical)</li> <li>■ Laser temperature OK (stabilized)</li> </ul>		
Input power:	<ul style="list-style-type: none"> <li>■ 48 volts direct current (VDC) (±4 VDC), 250 watts</li> </ul>		
Dimensions:	<ul style="list-style-type: none"> <li>■ Overall dimensions within 250 mm x 250 mm x 500 mm, or 9.8 inches (in.) x 9.8 in. x 19.6 in.</li> <li>■ Mass less than or equal to 15 kilograms (33.1 pounds)</li> </ul>		
Environment:	<ul style="list-style-type: none"> <li>■ Operating temperature -10 to 45 degrees Celsius (°C)</li> <li>■ Storage temperature -20 to 70°C</li> <li>■ Resilient against conditions including rain and shock</li> <li>■ Designed to the requirements of MIL PRF 28800F and DEF STAN 66-31</li> </ul>		

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