

# KNOW BEFORE YOU GO™



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

MEON is an end-to-end flight line confidence test set for directional infrared (IR) countermeasure, or DIRCM, and ultra-violet (UV) missile systems such as the AN/AAR-44, -47, -54, -57, -58 and -60. It also incorporates an IR beacon and IR detector to provide complete end-to-end testing, alignment checks and calibrated radiometric measurement of DIRCM systems including AN/AAQ-24(v) NEMESIS (using the MEON v4) and Large Aircraft Infrared Countermeasures, or LAIRCM (using the MEON v3).

The test set is capable of confidence testing fixed, multi-swept and multi-tonal jamming signals, and includes an eye-safe laser range finder (LRF) of 5-300 meters (m) or 15-1,000 feet (ft.) to accurately measure the testing distance for calibrated radiometric measurements.

The rugged, battery-operated MEON can be handheld or supported on a tripod. An optional management software package is available for the creation and downloading of test templates, as well as remote control of the unit via a Recommended Standard (RS) 232 serial communication port.

## MEON Directional Infrared Countermeasure Flight Line Test Set

Part Number: EU00101-03-FG (MEON v3) EU00101-04-FG (MEON v4)

Specifications subject to change without notice.

### Specifications

#### Performance:

- UV stimulator
  - Wavelength 250 nanometers (nm) to visible
  - Field of view  $\pm 5$  degrees ( $^{\circ}$ ) (half power)
  - Maximum on-axis irradiance 2 nanowatts per centimeter squared at 1 m (250-290 nm)
- IR stimulator
  - Wavelength 3-5 microns
  - Field of view  $\pm 10^{\circ}$  (half power)
  - Maximum on-axis irradiance 25 milliwatts per centimeter squared ( $\text{mw}/\text{cm}^2$ ) at 1 m
- IR beacon
  - Wavelength 3-5 microns
  - Field of view  $\pm 25^{\circ}$  (half power)
  - Maximum on-axis irradiance 20  $\text{mw}/\text{cm}^2$  at 1 m
- IR receiver
  - Bandwidth 2-5 microns
  - Field of view  $\pm 2.5^{\circ}$
  - Detector sensitivity 1  $\text{mw}/\text{cm}^2$
  - Dynamic range 50 decibels
  - Modulated bandwidth 70 hertz to 3 kilohertz
- LRF
  - Gallium arsenide, or GaAs, laser diode LRF; eye-safe Class 1
  - Wavelength 905 nm
  - Range 5-300 m (15-1,000 ft.)
  - Accuracy 100 millimeters (mm)

#### IR lamp/laser compatibility:

- External removable attenuators
- Programmable detector gain

#### Radiometric capability:

- Go/no-go capability
- Restricted atmospheric band pass 2-2.3 microns
- Radiant intensity measurement accuracy  $\pm 2.5$  percent in a laboratory environment
- Optional alternative band filters, e.g., Bands I, II, III and IV
- Integral, eye-safe LRF
- Annual self-calibration with optional calibration rig (MEON v4)

#### Suppressed jam beam reflections:

- Rubber front cover provides additional protection

#### Power supply:

- Rechargeable battery or external 12 volts direct current (VDC) supply

#### Test profiles:

- 32 test mode, missile signature and/or jamming code templates per PCMCIA (PC) card

## Specifications *continued*

<b>Indicator:</b>	<ul style="list-style-type: none"><li>■ Power on</li></ul>
<b>Display symbology:</b>	<ul style="list-style-type: none"><li>■ Includes battery status, scroll buttons, profile activity indicator, bar graphs of jamming signal with code template, file number, serial activity indicator and go/no-go jammer irradiance</li></ul>
<b>Controls:</b>	<ul style="list-style-type: none"><li>■ On/off switch and trigger on the hand grip</li><li>■ Test file selector scroll buttons</li><li>■ Select internal or external power supply</li></ul>
<b>Connectors:</b>	<ul style="list-style-type: none"><li>■ 12 VDC external power</li><li>■ RS-232/422 serial communication port</li><li>■ IR detector output</li><li>■ Tripod mounting</li></ul>
<b>Aiming sight:</b>	<ul style="list-style-type: none"><li>■ One times, or x1, magnification with aiming mark and field of regard indication</li></ul>
<b>Dimensions:</b>	<ul style="list-style-type: none"><li>■ 350 mm x 180 mm x 150 mm (1.1 ft. x 0.6 ft. x 0.5 ft.) excluding handle</li><li>■ Mass 7 kilograms (kg) or 15 pounds (lb.) including battery pack; 8 kg (17 lb.) tripod-mounted with LRF</li></ul>
<b>Color:</b>	<ul style="list-style-type: none"><li>■ NATO green</li></ul>
<b>Environment:</b>	<ul style="list-style-type: none"><li>■ Operating temperature -20 to 55 degrees Celsius (°C) excluding batteries</li><li>■ Storage temperature -40 to 71°C</li><li>■ Designed in accordance with MIL 28800 PRF and DEF STAN 66-31</li></ul>
<b>Optional ancillary equipment:</b>	<ul style="list-style-type: none"><li>■ Available ancillaries include a small tripod, alignment accessories kit, calibration rig and management software</li></ul>

**For information within the United States, please contact:**

AAI Corporation  
124 Industry Lane  
Hunt Valley, MD 21030  
800-655-2616  
EO\_IR@aaicorp.com

**For information outside the United States, please contact:**

ESL Defence Limited  
16-17 Compass Point, Ensign Way  
Hamble, Southampton Hampshire  
SO31 4RA  
+(44) 2380455110  
sales@esldefence.co.uk