

KNOW BEFORE YOU GO



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.

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 ultraviolet (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.

SPECIFICATIONS

PERFORMANCE

- UV stimulator
 - Wavelength: solar blind
 - Field of view ± 5 degrees ($^{\circ}$) (half power)
 - Maximum on-axis irradiance 2 nanowatts per centimeter squared at 1 m
- IR stimulator
 - Wavelength: mid-IR band
 - Field of view $\pm 10^{\circ}$ (half power)
 - Maximum on-axis irradiance 25 milliwatts per centimeter squared (mW/cm²) at 1 m
- IR beacon
 - Wavelength: mid-IR band
 - Field of view $\pm 25^{\circ}$ (half power)
 - Maximum on-axis irradiance 20 mw/cm² at 1 m
- IR receiver
 - Bandwidth: mid-IR band
 - Field of view $\pm 2.5^{\circ}$
 - Detector sensitivity 1 mw/cm²
 - Dynamic range 50 decibels
 - Modulated bandwidth 70 hertz to 3 kilohertz
- LRF
 - Gallium arsenide, or GaAs, laser diode LRF; eye-safe Class 1
 - Wavelength: near-IR
 - 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
- Radiant intensity measurement accuracy ± 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



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SPECIFICATIONS (CONTINUED)

INDICATOR

- Power on

DISPLAY SYMBOLOGY

- 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

CONTROLS

- On/off switch and trigger on the hand grip
- Test file selector scroll buttons
- Select internal or external power supply

CONNECTORS

- 12 VDC external power
- RS-232/422 serial communication port
- IR detector output
- Tripod mounting

AIMING SIGHT

- One times, or x1, magnification with aiming mark and field of regard indication

DIMENSIONS

- 350 mm x 180 mm x 150 mm (1.1 ft. x 0.6 ft. x 0.5 ft.) excluding handle
- Mass 7 kilograms (kg) or 15 pounds (lb.) including battery pack; 8 kg (17 lb.) tripod-mounted with LRF

COLOR

- NATO green

ENVIRONMENT

- Operating temperature -20 to 55 degrees Celsius (°C) excluding batteries
- Storage temperature -40 to 71°C
- Designed in accordance with MIL 28800 PRF and DEF STAN 66-31

OPTIONAL ANCILLARY EQUIPMENT

- Available ancillaries include a small tripod, alignment accessories kit, calibration rig and management software

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