

# KNOW BEFORE YOU GO™



## Solent Infrared Jammer Test Set

Part Number: EU00084-01-FG

Specifications subject to change without notice.

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

Solent is a confidence and laboratory test set used to verify infrared (IR) countermeasure systems such as the AN/ALQ-144, ALQ-157 and Matador in a completely unclassified manner. It is used to measure the modulation characteristics of IR countermeasure systems, as well as the radiant intensity of their jamming signals.

The Solent infrared jammer (IRJ) test set is a rugged, battery-operated system that can be handheld or supported on a simple tripod. The typical standoff range is 5-20 meters (m) or 15-65 feet (ft.) from the IR jammer. It can be used for confidence testing of fixed, swept and multi-tone jamming signals for both wide-beam and directional IR countermeasure systems.

Go/no-go testing can be performed for jammer radiant intensity, as well as integrity testing of jamming codes using the Solent's neural network. The measured results are displayed on a rear-mounted display in decibels (dB) of radiant intensity (above minimal measurable signal) and numerical identification of the jamming code.

The Solent IRJ test set can be supplied with an optional management software package for the training of the neural network using a "known good jammer." This occurs via a Recommended Standard (RS) 232 serial port, where the "weighting" algorithms are stored on a removable memory media.

## Specifications

<b>Performance:</b>	<ul style="list-style-type: none"><li>2.0-5.5 micron (single-band version) or Bands 1 and 4 (dual-band version); bands can be selected by use of external filters</li><li>Beam width 5 degrees (-3 dB)</li></ul>
<b>Measurements:</b>	<ul style="list-style-type: none"><li>Minimum measurable signal 0.02 milliwatts per centimeter squared (mW/cm<sup>2</sup>)</li><li>Maximum optical power greater than 5 mW/cm<sup>2</sup> before saturation</li><li>Measurement accuracy ±10 percent</li><li>Frequency response 50 hertz to 3.2 kilohertz</li></ul>
<b>Operating parameters:</b>	<ul style="list-style-type: none"><li>Typical operating range 5-20 m (15-65 ft.)</li><li>Up to 10 test programs</li><li>Up to 20 codes per jammer</li><li>Eight second typical test duration</li></ul>
<b>Power supply:</b>	<ul style="list-style-type: none"><li>Quantity of four AA cells (rechargeable nickel-metal hydride or standard alkaline)</li></ul>
<b>Indicators:</b>	<ul style="list-style-type: none"><li>Sunlight-readable display</li></ul>
<b>Controls:</b>	<ul style="list-style-type: none"><li>On/off switch and trigger on the hand grip</li><li>Buttons for test program selection and display brightness control</li></ul>
<b>Connectors:</b>	<ul style="list-style-type: none"><li>External Bayonet Neill-Concelman, or BNC, connector for detector output</li><li>External power input</li><li>Remote communication connector</li></ul>
<b>Dimensions:</b>	<ul style="list-style-type: none"><li>200 millimeters (mm) x 120 mm x 120 mm (0.7 ft. x 0.4 ft. x 0.4 ft.) excluding handle</li><li>Mass 2.6 kilograms (5.7 pounds) including batteries</li></ul>
<b>Color:</b>	<ul style="list-style-type: none"><li>NATO green plus yellow removable strip</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 -20 to 71°C</li><li>CE marked</li><li>Sealed to International Protection Code 65</li><li>Designed in accordance with MIL 28800 PRF and DEF STAN 66-31</li><li>ATEX-compliant to EN60079-15 for Zone 2, Category 3 equipment (Temperature Class T3)</li></ul>
<b>Transport case:</b>	Containing ancillaries including the Solent unit, one spare battery pack, socket driver, battery charger and cable, and operation/maintenance manual

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