

BARINGA IR™

MISSILE WARNING SYSTEM TEST SET



Part Numbers: EU00038-02-FG (one color)
EU00035-01-FG (two color)
Specifications subject to change without notice.

TEST, TRAINING & SIMULATION

PROVIDING CONFIDENCE AND RELIABILITY THROUGH TOTAL SPECTRUM TEST AND TRAINING SOLUTIONS

The Infrared (IR) Baringa is a confidence test set used to stimulate one- or two-color IR missile warning systems. A rugged, battery-operated test set that can be handheld or supported on a simple tripod, the IR Baringa is programmed to radiate spectral and temporal, classified and unclassified missile IR plume signatures. It can be operated from typical standoff ranges of 5-15 meters (m) or 15-50 feet (ft) from the missile warning system.

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► PUSHING PAST POSSIBLE

INFRARED BARINGA™ MISSILE WARNING SYSTEM TEST SET

KEY FEATURES & BENEFITS

- > Programmed to radiate spectral and temporal, IR missile plume signatures
- > Ability to stimulate AN/AAR 44, AN/AAR 58, Passive Airborne Warning System (PAWS) and future designs
- > Operational in various environments
- > Lightweight for ease of use
- > Management software package available for creating and downloading test templates

SPECIFICATIONS

TEST PROFILES

- > 10-way selector switch offering choice of eight test (missile warner declaration) profiles
- > Ninth position is a “soft” programmable profile direct from the utility port
- > Tenth position is a preset fixed amplitude profile of 120 seconds duration

ENVIRONMENT

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

PHYSICAL PARAMETERS

- > 330 mm x 115 mm x 135 mm (1.1 ft. x 0.4 ft. x 0.4 ft.) excluding handle
- > Mass less than 4.1 kilograms (9 pounds) including battery pack

POWER SUPPLY

- > Rechargeable battery
- > External 12 volts direct current, or VDC, via utility port

CONTROLS

- > On/off switch and trigger on the hand grip
- > Profile selector switch

UTILITY PORT

- > RS 232/422 serial communication port
- > External battery charge
- > External power input

PERFORMANCE

- > Maximum radiant intensity
 - One-color model: 10 milliwatts per steradian (mW/sr) broad mid-IR band
 - Two-color model: 10 mW/sr blue, 5 mW/sr red, mid-IR band
- > Frequency response greater than 2 Hz at 80 percent modulation depth; greater than 10 Hz at 35 percent modulation depth; and greater than 20 Hz at 10 percent modulation depth
- > Shutter response time of less than 10 milliseconds (ms) rise time, less than 10 ms fall time, greater than 50 ms single pulse duration, and greater than 5 Hz multiple pulse frequency
- > Beam divergence 25 degrees (half power)
- > Apparent source diameter less than 5 mm
- > Beam wavelength compatible with AAR-44, AAR-58, PAWS I and II, and future IR-based systems
- > Effective range to warner typically 5-30 m (15-100 ft.)
- > Test profile duration of 10 seconds (20 seconds for “Position 8”)
- > Standby time less than two seconds

INDICATORS

- > Battery status, ready and operational