

HAND-HELD RF TEST SYSTEM (HRTS)



HAND-HELD ALL-IN-ONE ELECTRONIC WARFARE THREAT STIMULATOR TEST SET

The HRTS is designed to be an all in one 'End of Runway' Go/No Go confidence tester for installed aircraft warning receiver systems, or used with any RF Antenna Coupler to stimulate an RF Radar Warning Receiver based system through a direct connection.

The HRTS is a fully programmable hand-held electronic warning stimulator unit for stimulating/ testing platform Electronic Warfare (EW) systems. It is a self-contained battery operated unit that is easily programmed to produce simple or complex real world threat signals that installed threat warning systems are programmed to detect. The HRTS 4.3 inch color screen and edge keys guide the user quickly and easily through test scenarios.

Test files are stored in a plug-in USB stick that is inserted into the HRTS. The HRTS also has the capability to support the use of hardware encrypted USB sticks. The HRTS software enables users to quickly program threat parameters using simple on-screen instructions.

The HRTS transmits threats in 'Free Space', and can also be connected to an antenna coupler for RF threats. This enables repeatable tests to be performed on individual antenna quadrants.



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FEATURES

- All in one threat emissions; Radar, Laser, & Missile
- Fully programmable .625-18 GHz and 26 to 40 GHz
- CW, pulse and staggered pulse threats
- Programmable UV/IR missile profiles
- Programmable Laser threat profiles
- Fully menu driven system that can be tailored to different languages
- PC support package for test file generation
- Stimulate any installed RF Threat Warning through an existing antenna coupler over its entire operating bandwidth
- MOPP4 friendly interface



HRTS AND BATTERY PACK

HRTS PRINCIPAL SPECIFICATION

RF FREQUENCY RANGE

RF .625 to 18 GHz, resolution 1 MHz

Ka-band 26 to 40 GHz, resolution 1 MHz

MODULATION

CW or pulsed Pulse width 50 ns to 100us, resolution 50 ns PRI 1us to 1 second, resolution 50 ns Various stagger sequences can be set around a nominal PRI

ULTRAVIOLET AND INFRARED

Plume and Hostile Fire Indicator UV (solar blind), eye safe class 2 emissions

LASER

CW or pulsed Pulse width 50 ns to 100us, resolution 50 ns PRI 1us to 1 second, resolution 50 ns Various stagger sequences can be set around a nominal PRI

POWER OUTPUT

RF -21 dBm to +24 dBm controllable in 3 dB steps

Ka-band +25dBm to +34 dBm controllable in 3 dB steps

Power (connector) RF band: up to +12 dBm

External power out 6V DC at up to 3A

DIMENSIONS

Size Height 12.4" (315mm), width 6.6" (168 mm), depth 10.6" (270 mm)

Weight 7.05 lbs (3.2kg)

Presentation Shipped in plastic Pelicase 20.3" (516mm) x 15.3" (390mm) x 9" (228mm) with two battery packs, battery charger unit, battery charger power brick suitable for US, European or UK power outlets.

INTERNAL POWER

Size The HRTS is powered by a clip-on Lithium Ion battery pack which provides 4 hours of normal use or 2.5 hrs if powering an RF hood as well. The unit is supplied with two battery packs and a charger. Remaining battery capacity is shown on the operators screen.

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