

KNOW BEFORE YOU GO™



Data Recorder/Analyzer

Handheld Transmitter

Handheld Radar Simulator

Part Number: 38913-40001-10

Specifications subject to change without notice.

Specifications

- | | |
|---|---|
| Frequency range (fully turnable): | <ul style="list-style-type: none">■ 0.1-18 GHz, 26-40 GHz■ Fast tuning (less than two microseconds for multiple emitters) |
| Emitters: | <ul style="list-style-type: none">■ Eight■ Time multiplexed |
| Modulation types: | <ul style="list-style-type: none">■ Programmable lobe, sine, triangular and arbitrary■ Continuous wave, pulse, monopulse and pulse doppler■ RF frequency, pulse and scan modulations |
| Fully programmable scan: | <ul style="list-style-type: none">■ Circular, conical, dwell, height finder, helical, lobe-on-receive-only, orthogonal, raster, sector and spiral |
| Antenna beam width: | <ul style="list-style-type: none">■ Minimum 10 degrees azimuth and elevation |
| Operating range: | <ul style="list-style-type: none">■ High power on target when testing at long standoff distances■ Operation to 100 feet readily achievable |
| Programming: | <ul style="list-style-type: none">■ Easy-to-use build emitter, scenario and measurement software■ Simple interface to capture, analyze and provide "pass/fail" criteria for bus traffic |
| Power: | <ul style="list-style-type: none">■ Lithium-ion "smart" battery■ Minimum four hours of operation/one hour of continuous transmitter operation■ Minimum seven hours of continuous DRA operation■ Transmitter, DRA and one spare battery provided (three total)■ Automatic power management |
| Dimensions: | <ul style="list-style-type: none">■ System weight less than 40 pounds (lb.) including transit case, battery charger and support hardware■ HHT – less than 8.5 lb. with battery; 11.8 inches (in.) x 8.22 in. x 7.48 in.■ DRA – less than 4 lb. with battery; 8.5 in. x 4.4 in. x 6.3 in. |
| Environment: | <ul style="list-style-type: none">■ MIL STD 28800F and 810G■ Flight line and flight deck qualified■ CE compliant |
| Protective clothing compatibility: | <ul style="list-style-type: none">■ Mission-oriented protective posture, or MOPP, IV■ Cold weather |

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

The Handheld Radar Simulator (HRS) automatically verifies radars, radar warning receivers and other radio frequency (RF) systems onboard aircraft, providing operators the tools they need to confidently validate the operational status of electronic combat systems.

Packaged in a small, ruggedized transit case, the HRS includes an RF handheld transmitter (HHT) and an aircraft bus data recorder/analyzer (DRA), both of which are portable and battery powered. The system can be programmed to simulate radar threats and automatically verify system responses between 0.1-18 gigahertz (GHz) and 26-40 GHz, comprehensively addressing all significant frequency ranges.

Using its integrated military standard (MIL STD) 1553 or Ethernet bus analyzer, the DRA can record and analyze aircraft responses to the HHT's transmitted signals. The DRA's automated bus traffic analyzer ensures rapid, high-confidence testing.

The HRS executes pre-programmed test scenarios that can be constructed with its user-friendly scenario-building software. With setup times of five minutes or less, technicians can conduct complete aircraft pre-flight checks. In turn, the DRA automatically displays go/no-go test results for each performed test. Test results and full bus traffic can be recorded for in-depth evaluation.

For information please contact:
AAI Corporation
124 Industry Lane
Hunt Valley, MD 21030
800-655-2616
EO_IR@aicorp.com