

Affordable and comprehensive first line test system.



DRS ATS-100 HAND-HELD RADAR STIMULATOR

The **ATS-100** is a programmable, hand-held RF stimulator unit for testing aircraft radar warning receivers and electro-optical missile warning systems. It is a self contained, battery operated unit that can be easily programmed to produce simple or complex threat parameters. It uses a 4" colour screen with edge keys to guide a user through a test sequence and allow easy interaction with the system.

The test files are held on a USB stick that is inserted into the unit. All test file data resides on this stick so that classified information is not held within the systems memory. To ensure complete security, the ATS memory is 'scrubbed' before power-down to further ensure that no classified information remains stored within the unit.

The output power levels of the ATS are programmed into the test data file. To ensure a level of test repeatability, a laser rangefinder is built into the system to measure the distance to the receiving antenna. For a given range, the unit automatically corrects the systems RF output level so that the user can ensure a similar power level is transmitted for a programmed range. (The rangefinder is a Class 1 fully eye-safe unit).

FEATURES

- Fully programmable 1-18GHz with extension to 25-40GHz
- Additional bolt on test modules to test Ku band, laser warners and UV/IR MAWS
- Fully menu driven system designed to meet all customer requirements and languages
- Provides test repeatability using a laser finder which controls the systems power output
- Programmable threat file that can be used on any PC system
- Perfect addition to popular DRS End To End Test Equipment
- Designed and manufactured in the United Kingdom



DRS ATS-100 HAND-HELD RADAR STIMULATOR TECHNICAL SPECIFICATIONS

The unit test files are simple, text based that can be written using an intuitive PC application that is supplied with the unit. The test files contain file headings of user defined units such as: frequency power level, modulation etc. The instruction screen can be programmed into any language defined by the user without any changed to the ATS firmware.

To aid operators who 'have their hands full' with the tester, the unit has a voice notes capability that allows the user to record information such as tail numbers and play it back later.

The unit is battery operated and uses a standard readily available commercial lithium battery. The ATS will run continuously for approx 2 to 3 hours and can be re-charged in one hour. The unit is supplied with two batteries and a mains charger unit. As the batteries can be hot-swapped without loss of tester memory, the unit can be kept operating for long periods without having to stop testing due to battery change.

FEATURES

The top of the unit is fitted with connectors that are designed to take additional test modules. These additional modules are for:

Testing Ku band systems

Testing electro-optical MAWS UV/IR laser warning systems

ATS OUTPUT PARAMETERS

Frequency range

Basic 1GHz to 18GHz in 50MHz increments

Extended 25GHz to 40GHz in 50MHz increments

Modulation

CW or pulsed at 1Hz to 1MHz repetition rate, 50ns to 100us width

Power Levels

16 levels -21dBm to +24dBm in 3db steps

30GHz to 40GHz power output customer determined

OPERATING PARAMETERS

1-18GHz and 25-40GHz

In-built Laser Range Finder

In-built expansion to test electro-optical missile warning systems; UV/IR

Laser warning system

'Hot-swap' battery

Voice notes facility

USB interface for test files

4" sunlight readable display

ENVIRONMENTAL PERFORMANCE

Operating Temperature -20°C to +61°C

Storage Temperature -40°C to +71°C

Sealing IP67

EMC MIL-STD 461E

MECHANICAL DATA

	ATS-100	Transit Case
Height	360mm	262mm
Width	190mm	558mm
Depth	200mm	450mm



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