

# Product Capabilities



## Military Communications

### 3515A Radio Communications Test Set



The Aeroflex 3515A was developed for military use and offers portability, long battery life and excellent performance. The Aeroflex 3515A combines many of the features of a bench-top radio test set, covering a frequency range from 2 MHz to 1 GHz. Instruments included are modulation meters, power meters and frequency counters.

The 3515A includes features for antenna testing, coax cable testing and audio system testing for intercoms. The 3515A is perfect for testing military communications radio installations in aircraft and ground vehicles, isolating faults to the specific device, such as transmitter, receiver, coax or antenna.

The 3515A has the ability to test radio systems using over-the-air monitoring of transmitted signals, as well as the capability to generate precision, low-level signals over-the-air to confirm receiver operation.

Operational capabilities may be further enhanced by adding optional instruments and capabilities:

- Spectrum analyzer to view transmitter output and off-air signals
- Oscilloscope to view external and demodulated audio signals
- Tracking generator to sweep filters, combiners and other frequency-variable devices
- APCO-25 waveforms and signal measurements to test P25 protocol radios
- Programmable using scripting language option to automate test procedures, document and collect data or other customer requirements

Several configurations of the 3515A are available, such as the 3515AR. The 3515AR includes the spectrum analyzer, oscilloscope, scripting language and a custom script that emulates the PRM-34 tester used to test SINCGARS radio installations.

### 7200 Configurable Automated Test Set



- Software defined test set
- Advanced automation and test execution optimization
- State-of-the-art user interface

The Aeroflex 7200 Configurable Automated Test Set (CATS) platform provides the manufacturers and users of software defined radio (SDR) avionics, radar and other advanced devices with the most state-of-the-art synthetic instrument platform available today while providing support for next generation devices in the future.

The 7200 CATS belongs to our 7000 Series product family and is based on the new Aeroflex Common Platform (CP). The Common Platform represents the most capable, flexible and scalable synthetic test instrumentation architecture in the industry. State-of-the-art hardware and software architectures, leveraging open industry standards, allow Aeroflex to configure CP products to match customer needs while providing them with unmatched upgrade and obsolescence protection in the future.

### Radio Communications Test Systems (RCTS)

The Military Radio Communications Test System (RCTS) is based on the Aeroflex frequency hopping TS-4317 communications test set. These systems are primarily used by the U.S. Armed Forces to test complex voice and data frequency hopping radios and accessories.

The ruggedized packaging of 16 basic generator/receiver instruments makes the system ideal for depot and field maintenance shops. When combined with one of the "Plug and Play" Radio Personality Modules (RPM) and the appropriate cables, the test system provides semi-automated testing of various military radio systems (UHF, VHF, HF) and accessories. Very little operator intervention or training is required to perform radio testing and repair.

#### Aeroflex Military Communications Products

- 3515A Portable Radio Communications Test Set
- 7200 Configurable Automated Test Set
- RCTS-001 Radio Communications Test System
- RCTS-002HQ Radio Communications Test System
- RCTS-003B and Accessories Radio Communications Test System
- RCTS-004 and Accessories Radio Communications Test System
- RCTS-007 and Accessories Radio Communications Test System
- RCTS-012 Radio Communications Test Set
- GRM-122 Avionics Upgrade Systems

# A passion for performance.

## RCTS-001 Radio Test System



- Ground and airborne radios
- Loud speaker
- RF PA
- Remote controls
- Single radio mount

The RCTS-001 (AN/GRM-122) is the radio test system currently fielded for depot and field maintenance of SINCGARS military radio equipment. When used in conjunction with an ON-373 B and ON-AVIM maintenance kit, the user has everything needed to perform testing, repair and maintenance on the entire suite of SINCGARS equipment.

## RCTS-002HQ Radio Test System



- Ground and airborne radios
- Handheld radios
- Remote controls
- RF amplifiers
- Single distribution unit

The RCTS-002HQ Radio Communications Test System is a self-contained unit used to test U.S. Air Force ARC-222 and ARC-186 radios. The addition of the HAVEQUICK capability enables the testing of ARC-164 radios.

## RCTS-003B Radio Test System



The following LRUs can be verified, tested and repaired with the RCTS-003B:

PRC-90	PRC-90T	PRC-90-2	PRC-90-2T
PRC-112	PRC-112A	PRC-112B	PRC-112B1
PRC-112C	PRC-112D	PRC-112G	URT-33C/M
URT-33D	Quickdraw 2	w/ COSPAS/SARSAT and SATCOM	

The RCTS-003B Radio Communications Test System is the current generation self-contained, transportable, semi-automated radio test system that is presently fielded for use by the U.S. Armed Forces. The instrument is used for operational verification testing and/or repairs of life support radio systems. Full functional testing of all operational modes is available.

## RCTS-012 Radio Communications Test Set



The RCTS-012 Radio Communications Test System is used to test the AN/ARN-89, AN/ARN-123, AN/ARN-147 and AN/ARN-149 avionics/navigation radios.

The unit provides a semi-automated, comprehensive test and alignment capability for the above systems, reducing test time and operator training.

## GRM-122 Avionics Upgrade Systems



The purpose of these systems is to upgrade the existing GRM-122 to test Army airborne radios and navigation systems. The following upgrade kits are available:

GRM-122 AV Kit	Complete avionics, life support and HAVEQUICK upgrade
RPM-12CK Kit	Avionics upgrade
RPM-2HCK Kit	HAVEQUICK upgrade

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