



ATS-6100 RTS

Revolutionize Your Field Testing to Save Test Time & Expense

Modern Testing for Your Communications

Bring your communications test function into the modern age with the new ATS-6100 RTS. Combining 19 instruments into one, this tester offers fault detection and operational verification of your radio communications at all levels of deployment.

The ATS-6100 RTS is the most comprehensive communications tester for field testing, reducing testing time and cost, maintenance and calibration costs, lifecycle ownership costs, and the number of "no fault found" results.

This solution joins Astronics' family of radio test solutions, which have been successfully deployed worldwide for more than 20 years, providing synergy from field to depot.

A Complete Test System

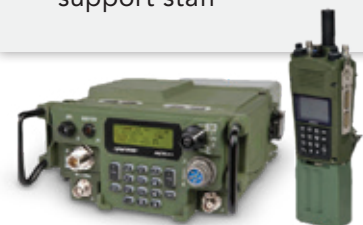
Test tactical handsets, amplifiers, couplers, cabling, antennae, or any other component of your system.

19 Test Instruments Including:

- AM /FM Modulation Meters
- Digital Signal Analyzer
- RF signal generator, receiver, power meter, frequency error meter, and counter
- RF analyzers – spectrum, VSWR, cable distance-to-fault
- AF signal generator
- Audio meters – SINAD/distortion, frequency, audio filters
- Oscilloscope
- Tracking generator
- Error vector magnitude (EVM)
- Wideband streaming TX and RX
- Real-time RF burst trigger
- Power analyzer and RSSI.

KEY BENEFITS

- **Powerful** - 19 instruments in one
- **Reliable** - Fewer frustrating "no fault found" results
- **Flexible** - Modular, customizable architecture makes it future-proof
- **Intuitive** - Windows-based interface
- **Portable** - Small size and light weight
- **Lower cost** - Reduced maintenance, calibration, and lifecycle ownership costs
- **Secure** - Cybersecure software
- **Supportable** - Dedicated engineering, factory, and field support staff



Includes support for widely deployed military tactical radios including the AN/PRC-117G and AN/PRC-163.

Guided Radio Test Scripts (GTS) from Astronics Test System is a basic test script creator providing step-by-step guides with optional pictures and written instructions that allow over-the-air or direct connect testing.



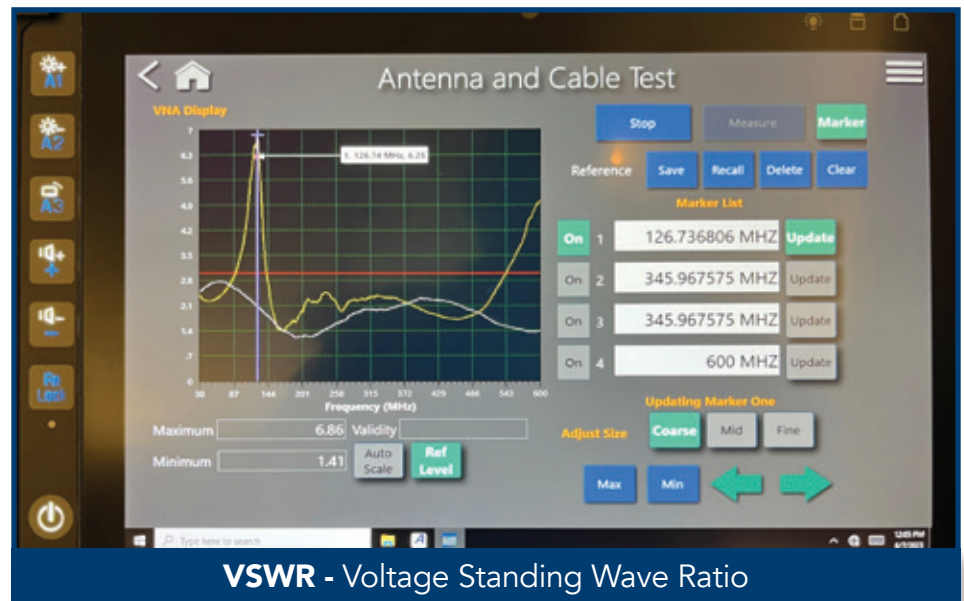
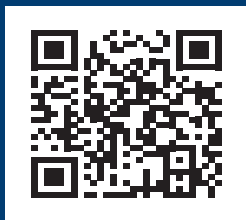
Go to the Source

ATS-6100 RTS series test set users are provided with the ability to create and perform basic, direct connect, or over-the-air, Level I and II radio communication tests on site, at the source, often without any additional cables or equipment.

Get Started Today

For additional details, please contact Astronics Test Systems.

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ATS-6100 RTS SPECIFICATIONS

RF SIGNAL GENERATOR

Frequency:
Range: 1.0 MHz to 6.0 GHz
Resolution: 1 Hz
T/R output range: -120 dBm to -50 dBm
ANT output range: -90 dBm to -30 dBm

RF RECEIVE METERS

Frequency:
Range: 1.0 MHz to 6.0 GHz
Resolution: 1Hz
T/R input range: -50 dBm to +47 dBm (50 Ω)
ANT input range: -120 dBm to +20 dBm (50 Ω)
RSSI range: -100 dBm to +47 dBm

RF POWER METER

Frequency:
Range: 1.0 MHz to 6.0 GHz
Accuracy: +/-1 dB

AUDIO FUNCTION GENERATOR

Waveform:
Sine, square, triangle, ramp up, ramp down, & DC

Frequency:
Range: Sine: 0 Hz to 40 kHz
Resolution: 0.1 Hz

DIMENSIONS

Size: 8.4" x 11.64" x 4.4"
(21.3 cm x 29.6 cm x 11.12 cm)
Weight: <11.0 lbs

ACCESSORIES

AC power cord, carry handle, operator's manual, 2 batteries

RF SPECTRUM ANALYZER

Frequency:
Range: 1.0 MHz to 6.0 GHz
Resolution: 1 Hz

OSCILLOSCOPE

Display:
Channels: 2
Trace types: Live, captured
Measure: frequency, Vrms, Vmin, Vmax, Vpp, Vavg, pulse width (neg. & pos.)

Frequency range: DC to 25 MHz
Input range: +/-40 V

REFERENCE OSCILLATOR

Accuracy: +/- 0.15 ppm
Warm up: 5 mins.

AUDIO ANALYZER

Channels:
2 Channels
Demodulated RF
Audio signal is automatically detected and measured

POWER REQUIREMENTS

AC/DC
AC voltage: 100 to 240 VAC, 50/60 Hz
DC voltage: using battery

HOST SYSTEM

Rugged tablet running Windows 10 with TPM 2.0
Solid state drive with 128 GB