

# Powerful, Portable,



The ATS3000P is a compact, ruggedized, battery-operated Communications Test System for frontline diagnostics.

# The ATS3000P significantly reduces:

- ☑ Unit Under Test diagnostic time
- **☑** Maintenance and calibration costs
- ☑ No Fault Found conditions
- ☑ Life cycle cost-of-ownership

The ATS3000P is designed using Astronics Test Systems' proven Synthetic Instrumentation architecture. Featuring 23 instruments, and both Automated and Standalone modes to test, record, and diagnose faults, the unit provides complete RF, Analog and Digital capabilities. The ATS3000P also includes the sophisticated IF and baseband I/Q Digital Signal Processing required for modern radios. The fieldupgradeable, software-defined architecture features easyto-use graphical user interfaces and enables testing with minimal operator intervention. Test Program Sets are available for a full range of tactical radios, or you can create new TPSs easily using the included TestEZ® software suite.

## **DIMENSIONS WITH LAPTOP**

- Size: 6"H x 12"W x 13.5"D (cm 15.2H x 30.5W x 34.3D)
- Weight: < 18 lbs. (< 8.2 kg)

# **DIMENSIONS WITHOUT LAPTOP**

- Size: 4"H x 12"W x 13.5"D (cm 10.2H x 30.5W x 34.3D)
- Weight: < 13 lbs. (< 5.9 kg)

# **Our Products and Services:** Instruments | Integration | Logistics | Engineering | Software

Racal Instruments™ test and measurement products Talon Instruments™ digital test products

Trig-Tek™ vibration analysis and test products

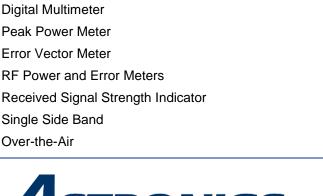
# FEATURES

- Software defined, synthetic architecture
- 23+ meters and instruments
- Standalone/Automated test capabilities
- Field upgradeable
- Real-time, programmable IF bandwidth from 100Hz to 8 MHz
- Removable UUT interface module for future ATE communications
- IQ synthesis and analysis via IQ<sub>EZ</sub>™

#### INSTRUMENTS

- RF Generator and Receiver
- 2 CH Arbitrary Function Generator
- Bit Error Rate
- Digital Data Generator
- Constellation
- 2 CH Digital Storage Oscilloscope
- Spectrum Analyzer
- Distance-to-Fault
- SINAD Meter
- **Distortion Meter**
- Audio Frequency Counter
- FM and AM Modulation Meters
- Phase Modulation Meter

- **Error Vector Meter**
- RF Power and Error Meters
- Single Side Band
- Over-the-Air



7TS3000





# Powerful. Portable.

### **RF SIGNAL GENERATOR**

#### **FREQUENCY**

Range: 1.0 MHz to 2.7 GHz (Usable from 250 kHz and up to

3000 MHz)

Resolution: 1 Hz

### RF RECEIVE METERS

#### **FREQUENCY**

Range: 1.0 MHz to 2.7 GHz (Usable from 250 kHz and up to

3000 MHz)

# **RF POWER METER (Broadband)**

#### FREQUENCY

Range: 1.0 MHz to 2.7 GHz (Usable from 250 kHz and up to

3000 MHz)

Accuracy: +/-10%

# AUDIO FUNCTION GENERATOR(S)

### CHANNELS

2 Front Panel Channels

4 UUT Interface Module Channels

#### **WAVEFORM**

Sine, Square, Triangle, Ramp, Pulse, & DC

#### **FREQUENCY**

Range: Sine: 0 Hz to 100 kHz (usable to 250 kHz)

Resolution: 0.1 Hz Accuracy: ± 0.2 Hz (Sine)

# **AUDIO ANALYZER**

### **CHANNELS**

2 Front Panel Channels

Demodulated RF

2 UUT Interface Module Channels

Audio signal is automatically detected and measured

# **RF SPECTRUM ANALYZER**

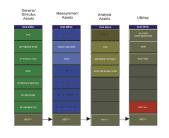
#### **FREQUENCY**

Range: 1.0 MHz to 2.7 GHz (usable from 250 kHz and up to

3000 MHz)

Resolution: 1 Hz







# DISPLAY

Channels: 2

Trace Types: Live, captured

Measure: Freq., Vrms, Vmin, Vmax, Vpp, Vavg, pulse

width (neg. and pos.), and Phase difference

# FREQUENCY STANDARD (Reference Oscillator)

# INTERNAL FREQUENCY STANDARD (OCXO) Frequency: 10 MHz

10 to 50 do sizo ao Cl 10 2

Accuracy: (0 to 50 degrees C) ±0.3 ppm

### DIGITAL MULTIMETER

### AC / DC VOLTMETER

Range: 1mV to 300V (non-mains 600V)

Resolution: 5-1/2 digits
Accuracy Range - DC:

600V: ±1% reading ±0.0002 of full scale 100V: ±1% reading ±0.0002 of full scale 10V: ±1% reading ±0.0002 of full scale 1V: ±1% reading ±0.0002 of full scale

### Accuracy Range - AC:

600V: ±2% reading ±0.0002 of full scale
100V: ±2% reading ±0.0012 of full scale
10V: ±2% reading ±0.0012 of full scale
1V: ±2% reading ±0.012 of full scale
0.1V: ±0.5% reading ±0.02 of full scale
AC Volts Frequency Range: 40 Hz to 20 kHz

### **POWER REQUIREMENTS**

#### AC /DC

AC Voltage: 104 to 126 VAC 50/60 Hz

207 to 253 VAC 50/60 Hz

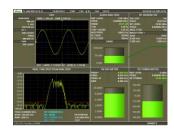
DC Voltage: 22 through 32 VDC

# **ACCESSORIES**

# STANDARD

Scope Probe Kit DMM Probe Kit AC Power Cord Extra Fuses

Operator's Manual







ATSinfo@Astronics.com \* www.AstronicsTestSystems.com 4 Goodyear \* Irvine, California 92618 \* Phone: 800-722-2528 12889 Ingenuity Drive \* Orlando, Florida 32826 \* Phone: 407-381-6062