

## ATS3000A “Production-ready with the diagnostic, parametric, and functional testing of today’s electrical-communication systems”



*Astronics DME Corporation is proud to introduce the ATS3000A, representing the third generation in the evolution of the ATACTS product. The ATS3000A is designed using Astronics DME’s proven Synthetic Instrumentation (SI) architecture. It can be used as a standalone or automated system with easy to use graphical user interfaces. The ATS3000A is capable of testing legacy, current and future software-defined radios, as well as power amplifiers, couplers and other electronic equipment.*

### FEATURES

- Software defined, synthetic architecture
- 21+ Meters and Instruments
- Field Upgradeable
- Real-time, Programmable IF Bandwidth from 100Hz to 8 MHz
- IQ Synthesis and Analysis via IQ<sub>EZ</sub><sup>TM</sup>
- Standalone, Automated test capabilities
- Removable UUT interface module for Future ATE communications

### Key Specifications

#### AUTOMATED TESTING

Providing automatic diagnostic, parametric, and functional support including:

- Thales MBITR Series
- Harris Falcon II Series
- Harris Falcon III Series
- Raytheon EPLRS and Microlight
- Other radio products

Ask for more details

#### SIZE

##### Dimensions

7.5”h x 17.0”w x 20.5”d

##### Weight

< 37 lbs.

# ATS3000A

## Product Highlights

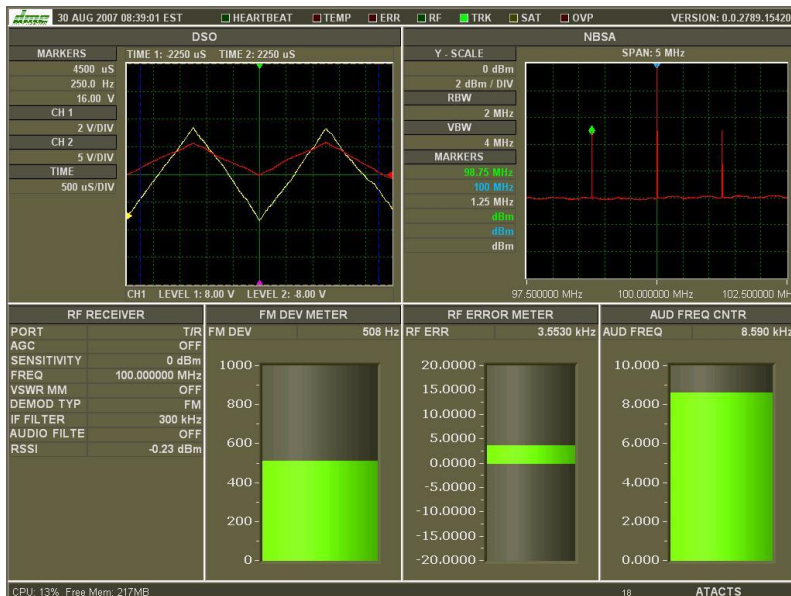
### INSTRUMENTS

- Audio Generator
- RF Generator and Receiver
- I/Q Generation

### METERS

- RF Power, Phase, AM, FM and Digital
- Constellation Diagram
- Spectrum Analyzer
- Oscilloscope (DSO)
- Error Vector (EVM) Meter
- Digital MultiMeter (DMM)
- Cable Fault
- Audio Analysis
- RSSI
- RF Frequency Error

## Standalone Virtual Instrumentation GUI



## TestEZ<sup>®</sup> Test Executive

The screenshot shows the TestEZ Test Executive software interface. It includes a menu bar, a toolbar, and a main window displaying test results. The test plan table is as follows:

Test Name	Upper	Lower	Results	Units	Status	%Dev
T0010: FRONT PANEL KEYPAD	PASS	PASS	PASS	NA	PASS	NA
T0015: DDS1 OUT TO SPEAKER	YES	YES	YES	NA	PASS	NA
T0020: DSP_DAC2_LP TO SPEAKER	YES	YES	YES	NA	PASS	NA
FP DMM V/Ohms/Amps Entry Point						
T0050: FP DMM V/OHMS INPUT	N/A	2.000	0.000	VDC	FORCE GO	NA
T0055: FP DMM COM	-2.000	N/A	0.000	VDC	FORCE GO	NA
T0065: FP DMM AMPS	0.060	0.040	0.000	amp	FORCE GO	>100%
FP Baseband/Audio OUT/DSO Entry Point						
T0100: FPBB TO DSO CH1, 3.5VRMS	3.675	3.325	0.000	Vrms	FORCE GO	>100%
T0105: FPAO TO DSO CH2, 19.8VPP	21.77	17.80	0.00	Vpp	FORCE GO	>100%
T0110: FPBB TO DSO CH1, 0.8VRMS	0.105	0.060	0.000	Vrms	FORCE GO	>100%
T0115: FPAO TO DSO CH2, 0.226VPP	0.280	0.140	0.000	Vpp	FORCE GO	>100%
T0120: FPBB TO DSO CH1, 19876HZ	19976	19776	0	HZ	FORCE GO	>100%
T0125: FPAO TO DSO CH2, 108HZ	118	98	0	HZ	FORCE GO	>100%
T0130: FPBB TO DSO CH1, 105HZ	115	95	0	HZ	FORCE GO	>100%

## Full ATE System with interchangeable UUT interface module



Actual product specifications may have changed since the printing of this brochure. Brochure specifications are not binding. Confirm current specifications at time of order.

## ATS3000P *“What you need, when you need it; reducing cost and increasing throughput where it matters the most”*



*The ATS3000P provides technicians system level, front-line diagnostic capabilities, offering unambiguous fault detection and isolation. It combines the operational capability (stimulus and response metering and measurement) of many different test instruments into a single, powerful, compact unit. The sophisticated virtual instrument graphical user interface provides maximum operational capability for advanced users, while maintaining an intuitive, easy-to-use interface for the basic technician.*

### FEATURES

- Field Level Maintenance Device
- One-man Portable
- Battery Operated
- Software defined, Synthetic Architecture
- Virtual Instrument Graphical User Interfaces
- Field Upgradeable
- Automated, Standalone Test Capabilities
- 21+ Meters and Instruments

### Key Specifications

#### SIZE

##### Dimensions

4.0”h x 12.0”w x 13.5”d  
(without laptop)

6.0”h x 12.0”w x 13.5”d  
(with laptop)

##### Weight

< 13 lbs. (without laptop)

< 18 lbs. (with laptop)

#### USER INTERFACE

##### Display

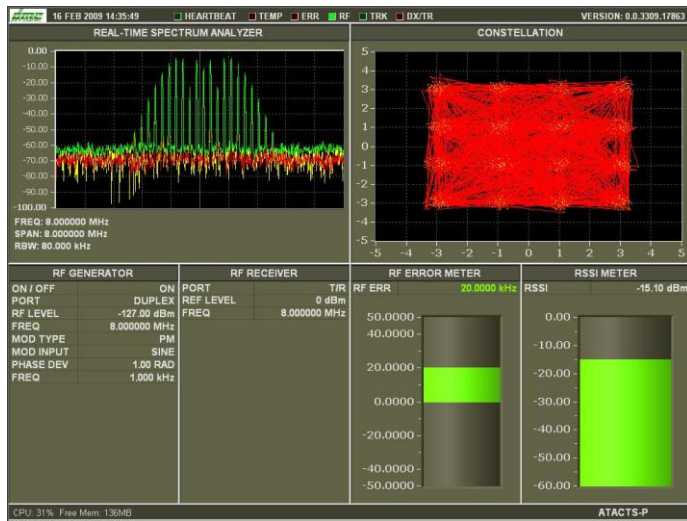
Size  
10.4”, Sunlight  
Readable

Resolution  
1024 x 768 XGA  
Touch Screen

ATS3000P



## Standalone Virtual Instrumentation GUI



## UBI-2590 Lithium Ion Battery



## TestEZ® Test Executive

Test Name	Upper	Lower	Results	Units	Status	%Dev
TPS REVISION: V050622 01						
UUT PART#: TF-2000A SELF TEST						
UUT SERIAL#: 0						
OPERATOR:						
TEST STATION#: 0						
T0010: FRONT PANEL KEYPAD	PASS	PASS	PASS	NA	PASS	NA
T0015: DDS1 OUT TO SPEAKER	YES	YES	YES	NA	PASS	NA
T0020: DSP_DAC2_LP TO SPEAKER	YES	YES	YES	NA	PASS	NA
FP DMM V/Ohms/Amps Entry Point						
T0050: FP DMM V/OHMS INPUT	N/A	2.000	0.000	VDC	FORCE GO	NA
T0055: FP DMM CDM	-2.000	N/A	0.000	VDC	FORCE GO	NA
T0065: FP DMM AMPS	0.060	0.040	0.000	amp	FORCE GO	>100%
FP Baseband/Audio OUT/DSO Entry Point						
T0100: FPBB TO DSO CH1, 3.5VRMS	3.675	3.325	0.000	Vrms	FORCE GO	>100%
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