



Aviation!



Three models available

- **BT100AV** *triple* **121/243/406**

Measure 406 MHz plus 121/243 MHz.

- **BT100AV** *double* **121/243**

Measure 121/243 MHz ELTs ... upgrade later to the BT100AV*triple* to include 406 MHz measurement capabilities.

- **BT100AVS** **121/243/406 + frequency stability**

Measure 406/121/243 MHz plus frequency stability.

The aviation industry needed to measure 243 MHz so we created a series of Beacon Testers to address that need. We built on the features of our most popular model (BT100A) and added 243 MHz frequency and power measurements. Now, the user can listen to the real-time audio on 121.5 MHz or 243 MHz! The BT100AV series even decodes Morse Code. With the BT100AV*triple* you still get the powerful 406 MHz graphic measurements for power, phase modulation and spectrum. To comply with your Quality Assurance requirements, we now include detailed calibration data with each Certificate of Calibration.

If you don't need 406 capabilities yet, you can get the 121/243 version now and upgrade via the internet in the future. Internet upgrading simplifies the process ... no down time, no shipping costs, no customs hassles. A cost effective solution.

Perform annual ELT inspections without using expensive test equipment!



Now measure 406, 121.5 and 243 MHz in one tester!

The BT100AV series exceeds the measurement requirements for ELTs in the USA (FAA Part 91.207), in Canada (CAR 571 Appendix G), and Europe (CAA/EuroCAE requirements). A very cost effective solution. Eliminate the need for a spectrum analyzer and other costly equipment.

SPECIFICATIONS

Parameter		BT100AV/triple	BT100AV/double	BT100AVS	Accuracy
406 MHz Measurements					
Measure all Cospas-Sarsat Frequency Channels		•	•	•	
Decode all Cospas-Sarsat Protocols		•	•	•	
15 HEX ID & Full HEX		•	•	•	
Frequency (using INT REF) (resolution = 100 Hz) Leaving Factory Long Term		•	•	•	± 100 Hz ± 0.4 ppm/year
Frequency (using EXT REF) (resolution = 1 Hz)		•	•	•	± 1 Hz
Frequency * Stability	Nominal Frequency				
	Short Term				
	Medium Term - Mean Slope		•		± 2.5 x 10 ⁻¹¹
	Medium Term - Residual				
Power		•	•	•	± 1 dB
Power Rise Time		•	•	•	± 0.5 ms
Phase Modulation		•	•	•	± 0.04 rad
Modulation Rise and Fall Times		•	•	•	± 10 µs
Modulation Symmetry		•	•	•	± 0.005
Modulation Bit Rate		•	•	•	± 0.2 bps
CW Preamble		•	•	•	± 0.8 ms
121.5/243 MHz Measurements					
Frequency (using INT REF) (resolution = 100 Hz) Leaving Factory Long Term		•	•	•	± 100 Hz ± 0.4 ppm/year
121.5 Frequency (using EXT REF) (resolution = 1 Hz)		•	•	•	± 30 Hz
243 Frequency (using EXT REF) (resolution = 1 Hz)		•	•	•	± 30 Hz
121.5 Peak Power		•	•	•	± 1.5 dB
243 Peak Power		•	•	•	± 1.5 dB
Sweep Direction		•	•	•	-
Audio Frequency		•	•	•	± 30 Hz
Duty Cycle		•	•	•	± 2%
Modulation Factor		•	•	•	± 5%
Sweep Repetition Rate		•	•	•	± 0.1 Hz
Listen to Real-Time 121.5 Audio		•	•	•	-
Listen to Real-Time 243 Audio		•	•	•	-
Decipher Morse Code		•	•	•	-

* User must supply a stable 10 MHz Reference Signal

Specifications subject to change without notice.

The PDA is included!



View an interactive demo at www.wst-inc.ca

Developed and manufactured by:

 **WS Technologies Inc.**