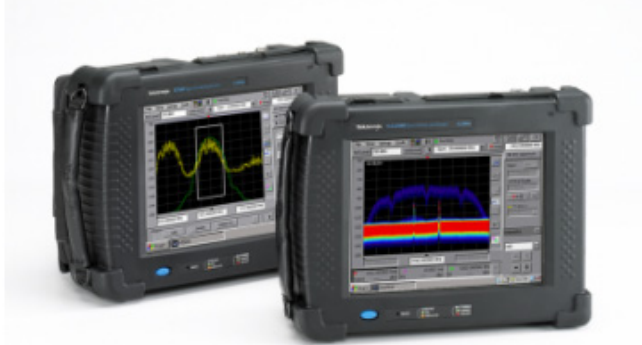


# H500/SA2500 Handheld Spectrum Analyzer Fact Sheet

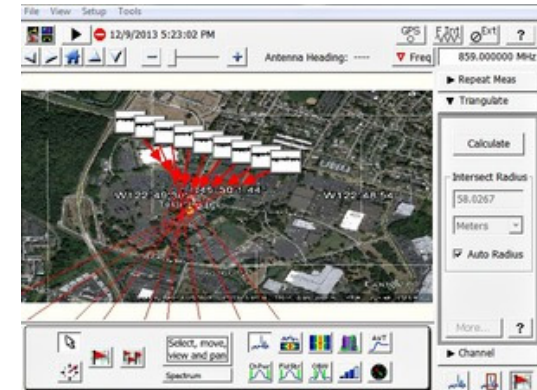
Interference troubleshooting has never been so easy.



Features	Benefits		
<b>DPX Live RF Spectrum Display</b>	Discover Events with 100% Probability of Intercept.		
<b>DPX Spectrum Mask</b>	Capture and act on signals of interest easily with the automatic and editable spectrum mask.		
<b>Built-In Mapping</b>	<ul style="list-style-type: none"> <li>Populate measurement results from signals of interest on a map with the built-in GPS receiver and automated GPS mapping functionality.</li> <li>Easily and simply triangulate on the location of interferers.</li> </ul>		
<b>Signal Classification and Open Signal Database</b>	<ul style="list-style-type: none"> <li>Use the provided signal database to quickly identify known signals from unknown signals.</li> <li>Open database structure allows you to easily add new signal types as needed.</li> </ul>		
<b>Built-in Versatile Field Measurements</b>	<ul style="list-style-type: none"> <li>Spectrum</li> <li>Spectrogram</li> </ul>	<ul style="list-style-type: none"> <li>Field Strength</li> <li>Signal Strength</li> <li>Channel Power</li> </ul>	<ul style="list-style-type: none"> <li>OBW</li> <li>Audio Demodulation</li> </ul>
<b>Tools to Automate Common Tasks</b>	Automate common tasks like receiver emulation for field use with the macros and programmatic interface.		
<b>Rugged Design for Field Use</b>	Compliant with MIL-PRF-28800F.		
<b>Extended Battery Life</b>	Test up to 5 hours with the extended battery life and industry's only hot swap power system.		
<b>Direction Finding and Triangulation</b>	Support for Poynting DF-A0047 Antenna to: <ul style="list-style-type: none"> <li>Collect measurements with directional information.</li> <li>Triangulate the results inside the Mapping display.</li> </ul>		

www.tektronix.com/h500-sa2500

## Scan, Classify, Locate



### Scan

- Revolutionary DPX™ Live RF spectrum display technology with DPX Spectrum Mask provides processing up to 10,000 spectrums/sec with a 100% Probability of Intercept (POI) with a minimum duration as brief as 125  $\mu$ s
- Better than 70 dB spurious free dynamic range (SFDR), guaranteed  $\leq -95$  dBc/Hz at 10 kHz offset phase noise specifications from 10 kHz to 6.2 GHz
- Excellent sensitivity for detecting very low-level signals with -153 dBm DANL at 10 Hz RBW (equivalent to -163 dBm/Hz) such as RF bugs and unauthorized transmitters

### Classify

- Built-in classification capability for WLAN, GSM, W-CDMA, CDMA, ATSC signals
- Ability to export I/Q data into CSV, MATLAB®, and IQT format for additional post-analysis

### Locate

- Rapid targeting of signals
- Built-in GPS for plotting measurements directly into GPS geo-referenced maps such as Pitney Bowes Mapinfo, Google™ Earth, Microsoft® MapPoint®, Bitmap, and many others
- Rugged design per MIL-PRF-28800F



# H500/SA2500 Handheld Spectrum Analyzer Fact Sheet

## Key Specifications and Ordering Information

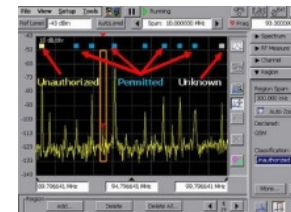
Model	Real-Time Bandwidth	Min. Event Duration for 100% POI	DANL w/Preamp	Phase Noise @ 10 kHz Offset
SA2500	20 MHz	500 $\mu$ s	-152 dBm/Hz	-95 dBc
H500	20 MHz	125 $\mu$ s	-152 dBm/Hz	-95 dBc

### Key Options

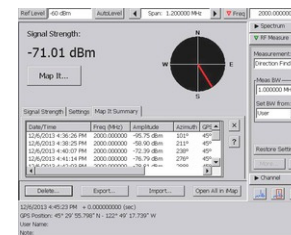
Opt. EP1	Enhanced display (10K spectrums/sec)
Opt. EP2	Enhanced signal classification to Spectrum Notes
Opt. R5	5 year repair service plan
Opt. C3/C5	3 or 5 year calibration service plan
Opt. G3/G5	3 or 5 year complete care

### Recommended Accessories

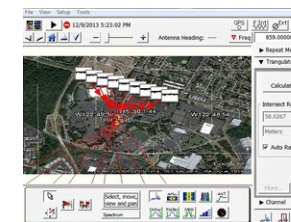
119-6594-xx	Beam antenna, 824 to 896 MHz
119-6595-xx	Beam antenna, 896 to 960 MHz
119-6596-xx	Beam antenna, 1710 to 1880 MHz
119-6597-xx	Beam antenna, 1850 to 1990 MHz
119-6970-xx	Magnetic mount antenna, 824 to 2170 MHz (requires adapter 103-0449-00)
119-7246-xx	Pre-filter, general purpose, 824 to 2500 MHz, Type-N (f) connector
119-7426-xx	Pre-filter, general purpose, 2400 to 6200 MHz, Type-N (f) connector
012-0482-xx	Cable, 50 $\Omega$ , BNC (m) 3 foot (91 cm)
174-4977-xx	Cable, 50 $\Omega$ , straight Type-N (m) and angled Type-N (m) connector, 1.6 foot (50 cm)
174-5002-xx	Cable, 50 $\Omega$ , Type-N (m) to Type-N (m) connector, 3 foot (91 cm)
119-6030-xx	External battery charger (2-slot)
119-7755-xx	AC power supply
146-0151-xx	Lithium-Ion battery
016-1882-xx	Display protector sheets
Poynting DF-A0047 direction finding antenna	Poynting smart antenna with electronic compass; order from manufacturer (poyntingdefence.com)



### Scan



### Classify



### Locate

### Key Applications

- Spectrum management
- Spectrum monitoring and surveillance
- Interference detection and troubleshooting
- Signal hunting
- Signal identification
- Signal intelligence (SIGINT)
- Homeland Security