

Ultra-Portable RF Signal Recorders

Real-Time Spectrum Analyzer Recording & Playback Systems by



ULTRA PORTABLE

~12 lb. (5.4 Kg) /
~24 lb. (10.8 Kg) options



REAL-TIME BANDWIDTH

100 MHz / 160 MHz
options



GAP FREE RECORDINGS

Continuous Recordings
up to 2.5 MHz BW /
160 MHz BW options

Our Real-Time Spectrum Analyzer solutions feature ultra-portable configurations for real-time, long term recording of RF signals. Wideband signals up to 27 GHz can be viewed, analyzed, and recorded using system based packages that weigh less than 5.4 kg / 12 lb. to 10.8 kg / 24 lb. They can easily be transported on commercial airlines as carry-on luggage.



	Controller + Downconverter	Controller + Downconverter + Thunderbolt Digitizer
System Overview	<p>Employs an ultra-portable measurement controller and an Ethernet connected tuner/digitizer/DDC processor. These 2 units weigh about 6 lb. each, for a total solution weight of 12 lb. Real-time signals up to 100 MHz bandwidth can be viewed, and time domain snapshots recorded and processed later.</p> <p>Other capabilities include broadband (up to 27 GHz) spectrum viewing, waterfall displays, frequency domain triggering, and signal averaging, with many cursor and display options.</p> <p>Once a signal of interest is identified, users can switch to real-time recording mode. By using DDC to narrow the bandwidth, the system enables long term gap-free continuous recording of signals up to 2.5 MHz bandwidth - for durations up to 71 hours.</p> <p>These recordings can then be played back and analyzed on the display, with signal regions extracted, saved, and converted to other file formats for further post processing on other systems.</p>	<p>The next level configuration, which adds an external Thunderbolt hosted 16-bit digitizer, can be purchased as a total solution to start, or optionally purchased as an upgrade to the smaller configuration.</p> <p>The Thunderbolt based 16-bit digitizer enables much wider bandwidth real-time recording. This adds about 12 lb., for a still very portable 24 lb. total solution.</p> <p>All the capabilities described in the first configuration are still available. But now, the higher performance digitizer allows for real-time recordings up to 160 MHz in bandwidth, with selectable recorded bandwidths of 100, 80, 40, and 10 MHz, depending on configuration. With this solution, 160 MHz of bandwidth can be continuously recorded for up to 1 hour or 80 MHz of bandwidth can be continuously recorded for up to 2 hours.</p>
System Receiver Control via Gigabit Ethernet	Yes	Yes
Digitizer for Capture	Internal Receiver 14-Bit	External Thunderbolt 16-Bit
Real-Time Signals	up to 100 MHz Bandwidth	up to 160 MHz Bandwidth
Gap-Free Continuous Recordings	up to 2.5 MHz BW	up to 160 MHz BW
Total Ultra-Portable System Solution Weight	~12 lb.	~24 lb.

CONTACT US TODAY FOR MORE INFORMATION!