AVCOM
Of Virginia Inc.

LPT SERIES
Portable Laptop Sized 2.5GHz & L-Band Remote Spectrum Analyzer

- Designed For The Engineer Or Technician On The Go
- Sized To Be A Laptop Companion
- Fits Into Carry-On Laptop Bag
- Portable Operation Via Internal Li-Ion Battery
- Built-In Battery Charger
- Precise And Accurate Amplitude And Frequency Response
- Full Remote Control And Monitoring Via Ethernet/ USB/RS-232 Using Free Remote Control Software (GUI)
- 13/18Vdc/22kHz LNA/LNB Power

Laptop Design

The LPT was designed for the field engineer or technician to have a very useful, compact tool that can be easily carried as a companion to his/her laptop computer. The LPT eliminates the need for carrying around a big bulky bench top spectrum analyzer in a separate hand held case as it fits comfortably alongside a laptop computer in a carry-on bag. The internal Li-Ion battery makes for true portability, making this an indispensable tool for the user that stays on the go. The LPT interfaces easily to any laptop computer through the USB/Ethernet ports. The weight of the LPT is about half that of a laptop, so the added weight is minimal when added to a carry-on bag. If you are looking for a complete portable spectrum analyzer system, the LPT along with a laptop provides the user with a lot of flexibility and horsepower in a compact design.

Performance & Specifications

The LPT is designed for the measurement and analysis of communications and broadcast carriers, making uplink, downlink, L-Band carriers, IF, and 10MHz reference signals easy to measure, monitor, and store. The LPT provides excellent frequency and amplitude accuracy along with resolution band-width (RBW) selection from 10kHz to 1Mhz. This is required to allow viewing and monitoring of small Telemetry, Tracking, Command Systems (TT&C), data carriers found in many satellite communications markets, spread spectrum, and Wi-Fi as well. Making the RBW smaller is like zooming in on a carrier and magnifying a smaller portion of it to see more detail of the signal. Variable reference levels (RL) from -10dB to -50dB make viewing of smaller to larger signals possible. Zoom provides viewing at -2 dB RL for close up inspection when doing signal analysis. This also makes maximizing a satellite dish a snap.

Versatile Remote Control Software

The LPT can provide discrete remote monitoring and control from anywhere in the world. The LPT is monitored and controlled using the Avcom Remote Control Software via serial port, USB, or Ethernet. The Remote Control Software has an intuitive user interface that is easy to use with no special training required. It allows remote monitoring and control from your network or over the internet. Features include screen shot capture recording, SNMP for alarm/monitoring, markers, and Automated Data Acquisition (DAQ) with tolerance comparison, and integrated email alerts to name a few. Up to twelve windows can be displayed at one time. The Remote Control Software is available for Windows, Mac, and Linux.
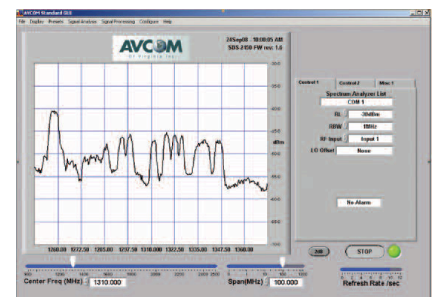
TECHNICAL SPECIFICATIONS

FREQUENCY RANGE:	LPT-2150B: 930MHz – 2,500MHz LPT-2500B: 5MHz – 2,500MHz
SPAN WIDTH:	Up to 1300 MHz (Dependent on Center Frequency)
RESOLUTION BANDWIDTH:	10KHz, 100KHz, 300KHz, 1MHz
RF SENSITIVITY:	Greater than -85 dBm Typical
REFERENCE LEVELS:	Selectable -10 dBm to -50dBm in 5 dBm increments
SCALE:	5 dB/Div & 2 dB/Div
DYNAMIC RANGE:	50dBm GUI window
AMPLITUDE ACCURACY:	± 1 dB typical
FREQUENCY ACCURACY:	± 1KHz typical
MAX RF INPUT:	25 VDC MAX (DC Blocked), +30dBm (1W)
INPUT IMPEDANCE:	50 Ω
AMPLITUDE RANGE:	0 dBm to -85 dBm
LNB POWER:	13-18V, 22kHz
INPUT CONNECTOR:	BNC is standard. F-type available.
OPERATING TEMPERATURE RANGE:	-10°C to +60°C
SIZE:	12.25" W x 8.25" L x 1.5" H
WEIGHT:	3.5lbs
POWER REQUIREMENTS:	+15 to 24 VDC/9W

Accessories include universal AC adaptor (100 to 240Vac), AC cord, PC software, RS-232 and Ethernet cables.