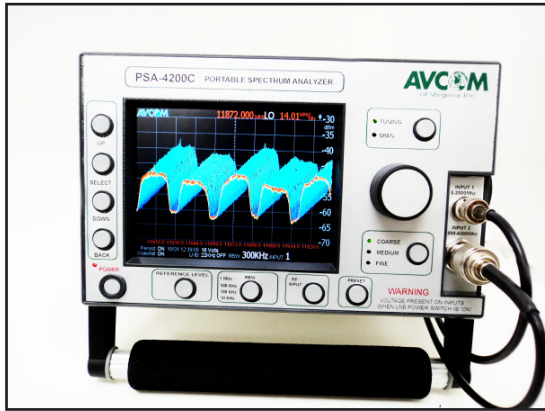


# PSA-4200C

# Portable 4.2 GHz Spectrum Analyzer



- Designed For Satellite, TV and Radio Broadcasting, CATV, Wireless, TCSM, and GPS
- L.O. Frequency Offsets Displays Direct Frequency Read-out
- 10 Customizable Presets/50 User Memory Locations
- Fast Refresh Rates Up To 13/sec
- 13/18Vdc/22kHz LNA/LNB Power
- Easy-To-Use Front Panel Interface, Even When Wearing Bulky Gloves.
- Full Remote Control Monitoring Via Ethernet/RS-232 Using Free Remote Control Software
- Options Include Carrying Case, Extended Amplitude Range Solutions, Down Converters For Extended Frequency Coverage, And LNB Power

## Compact Design-Improved Performance and Specifications

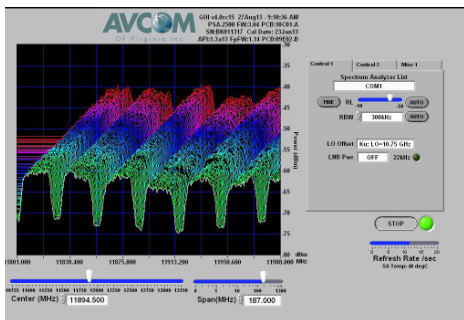
Whether you are doing a satellite installation, troubleshooting a CATV or broadcast system, setting up a remote telemetry system, trying to locate a threatening jamming device, or locating eavesdropping devices, the AVCOM PSA-4200C has something to offer. Designed for the teleport, oil and gas, maritime, broadcast, military, TCSM, and wireless community, the PSA-4200C is compact, portable, lightweight, and budget friendly for quick and precise signal investigations. Being intuitive and easy to operate and providing many functions to facilitate quick and easy measurements, the PSA-4200C is an indispensable tool for engineers and technicians who conduct field measurements anywhere in the 5MHz to 4.2GHz range.

For technicians demanding a greater range, AVCOM's external down converters may be used to extend the range up to 6.5GHz. This will allow the TV broadcasting engineer to troubleshoot directly at the C-Band satellite end, and also allow troubleshooting of the 5.8GHz video/audio signals that HD wireless TV cameras use, or the 5.8GHz band that many WLAN 802.11a devices now use. AVCOM's external down converters can be powered directly by the PSA-4200C, making for a totally portable system and eliminating the need for an external adaptor.

The color LCD display provides the user with an accurate and detailed picture of the spectrum being investigated, even when operating under challenging bright sunlight or other difficult lighting conditions. The field replaceable Li-Ion battery uses an internal charger and a multi segment battery status indicator is provided. The PSA-4200C comes equipped with 13V/18V/22kHz LNB power to directly power the satellite LNB, and programmable LO Offset selection provides no-math direct frequency readouts of low side or high side LNB's. Up to ten user-defined presets allow for executing quick repetitive testing parameters. Screenshots may be saved on the PSA-4200C and can be recalled on-screen for comparing signal footprints or can be downloaded to a PC using AVCOM's free software for documentation. The number of applications and features of the PSA-4200C are endless so contact us today!

## Versatile Remote Control Software

The PSA-4200C can be monitored and controlled both locally from the front panel and remotely using the Avcom Remote Control Software via serial port 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 screenshot 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 GUI is capable of saving and recalling an unlimited number of screenshots and integrates with the PSA-4200C to upload or download saved waveforms from the analyzer's internal user memory locations. The Remote Control Software is available for Windows, Mac, and Linux.



## TECHNICAL SPECIFICATIONS

<b>FREQUENCY RANGE:</b>	5MHz – 4200MHz Input 1: 5 – 2500MHz, Input 2: 2500 – 4200MHz
<b>SPAN WIDTH:</b>	Up to 1300 MHz (Dependent on Center Frequency)
<b>RESOLUTION BANDWIDTH:</b>	10KHz, 100KHz, 300KHz, 1MHz
<b>RF SENSITIVITY:</b>	Greater than -85 dBm Typical
<b>REFERENCE LEVELS:</b>	Selectable -10 dBm, -30 dBm, & -50dBm (front panel) (5dBm increments in GUI)
<b>SCALE:</b>	5 dB/Div & 2 dB/Div
<b>DYNAMIC RANGE:</b>	40 dBm on Application Window (50dBm GUI window)
<b>AMPLITUDE ACCURACY:</b>	+/- 1 dB typical
<b>FREQUENCY ACCURACY:</b>	+/- 1KHz typical
<b>MAX RF INPUT:</b>	25 VDC MAX (DC Blocked), +30dBm (1W)
<b>INPUT IMPEDANCE:</b>	50 ohm
<b>AMPLITUDE RANGE:</b>	0 dBm to -85 dBm (standard) 0 dBm to -105 dBm (preamp option) +10 dBm to -65 dBm (attenuator option) *Preamp and attenuator option available on Input 1 only
<b>INPUT CONNECTOR:</b>	Input 1: BNC standard. F, SMA, TNC, and N available. Input 2: N-type only
<b>LNB POWER:</b>	13-18V, 22kHz available on Input 1 only (optional)
<b>OPERATING TEMPERATURE RANGE:</b>	-10°C to +60°C
<b>SIZE:</b>	9" L x 9.25" W x 5.75" H
<b>WEIGHT:</b>	7.2lbs
<b>BATTERY RUN TIME:</b>	1 hour typical
<b>POWER:</b>	15V@3A max
<b>DISPLAY:</b>	5.7" TFT-LCD, 640x480 (VGA), 16-Bit RGB

Specifications subject to change. ©2015 Avcom of Virginia, Inc. v011515

### Options

- Ethernet
- Microwave Down Converters
- Preamp (-70dBm Reference Level) available on input 1 only
- Attenuator (+10dBm Reference Level) available on input 1 only
- LNB Power available on input 1 only
- Avsac nylon carrying case

Accessories include universal AC adaptor (100 to 240Vac), AC cord, and software.