

# PSA-65A Portable Spectrum Analyzer 2-1000MHz In One Sweep

**SWEPRATE** controls the speed of the sweep across the CRT.

**VERT** is used to position the display on the screen.

Scale selects an amplitude sensitivity of either 10 dB/DIV or 2 dB/DIV.

**CENTER FREQUENCY** is a 4 digit LCD display that allows you to accurately read center frequency of the PSA-65A display in tenths of a MHz.

**TUNING** adjusts the center frequency of the analyzer so that signals of interest appear on the center of the display and their frequency is read out on the LCD.

Portable, attractively styled package and ergonomically engineered front panel for an instrument that is a pleasure to own and use.

Large bright screen for outdoor and indoor use. Scale calibrated in 10 dB or 2 dB steps for accurate repeatable measurements. 65 dB dynamic range.

**BAT CHG** switch recharges PSA-65A to 80% capacity in approx. 6 hours.

**POWER** switch has 3 positions: Battery Operation, Standby and AC Line Operation. Ext. DC Power switch on rear panel for 12 volt operation.

**INTENSITY** controls the brightness of the display.

**HORIZ** is used to position the display on the screen laterally.

**AUDIO OUT** drives low impedance earphones or speaker. Internal speaker provided with optional demod.

**AUXILIARY** supports present and future optional accessories for the PSA-65A.

**AUDIODEMOD** activates audio demod board and sets audio level.

**REFERENCE LEVEL** adjusts input attenuator and IF gain so that top graticule corresponds to indicated signal level. Calibrations in dBm and dBmv are provided.

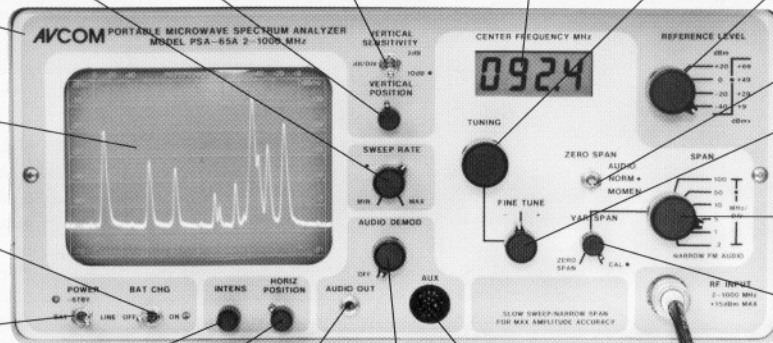
**ZERO SPAN** instantly places analyzer in zero span mode and activates audio demodulator for convenient monitoring.

**FINE TUNE** allows fine changes in center frequency. Greater adjustment range on left knob settings, finer adjustment on right knob settings.

**SPAN** controls the width of the spectrum being displayed and automatically selects optimum resolution filter.

**VAR SPAN** reduces the width of the spectrum being displayed for closer signal examination and enhanced amplitude accuracy.

**RF INPUT** accepts signals to be observed from less than 2 MHz to greater than 1000 MHz.



## The Spectrum Analyzer Designed For Professionals By Professionals.

### FEATURES:

- \*Battery or Line Operated
- \*Internal Battery Charger
- \*Digital Frequency Display of Center Sweep
- \*Frequency Accurate to .1 MHz at 0 Span
- \*2 MHz to 1000 MHz in One Sweep
- \*-95 dBm in Sensitivity
- \*Lightweight - Portable
- \*Functional, Ergonomically Designed Front Panel
- \*Rugged, Attractive Styling
- \*Affordably Priced
- \*Made in U.S.A.

AVCOM's PSA-65A Portable Microwave Spectrum Analyzer covers a frequency range from less than 2 MHz to 1000 MHz. The broad frequency coverage and high sensitivity of the PSA-65A make it ideal wherever a low cost, compact spectrum analyzer is needed. The lightweight, battery or line operated PSA-65A Portable Spectrum Analyzer from AVCOM is the perfect instrument for field testing of RF systems, classroom instruction, satellite system alignment, electronic countermeasures, cable TV maintenance, cellular and production use.

The small size, lightweight and low cost of the PSA-65A will enable companies to issue spectrum analyzers to their technical staff when more expensive units could not be justified. The increased productivity and diagnostic power of employees equipped with a PSA-65A will quickly offset the low cost.

AVCOM's PSA-65A can be ordered for operation on 110 or 220 VAC as well as the standard external 12 VDC and internal batteries.

A unique zero span function switch allows instant monitoring of transmissions as soon as the "spike" is

tuned to the center of the display.

A full line of accessories for the PSA-65A is available from AVCOM.

### INTERNAL PSA-65A OPTIONS:

**10KHZ RESOLUTION BANDWIDTH FILTER** for the .2 MHz/DIV span that extends lower frequency range to approximately 200 KHz.

**FM AUDIODEMODULATOR** allows the PSA-65A to monitor transmissions after they have been observed on the display. This option is particularly useful for locating electronic listening devices.

**AM DETECTOR** gives the operator the capability to "hear" the vertical deflection of the CRT trace. It was originally designed for utility companies to detect RF leaks.

**OSCILLOSCOPE INTERFACE** outputs the CRT display of the PSA-65A to an oscilloscope.

### SPECIFICATIONS

#### FREQUENCY COVERAGE

2 MHz to 1000 MHz in one sweep.

#### REFERENCE LEVELS

+20, 0, -20, -40dBm/+69, +49, +29, +9 dBmv

#### INPUT CONNECTOR

Type BNC (BNC to F adapter included)

Type N (optional)

#### DISPLAY

10 horizontal graticule Divisions (frequency) x 7 vertical graticule Divisions (amplitude). Each vertical Division equals 10 dB or 2 dB.

#### RESOLUTION BANDWIDTH

Automatically selectable by Span Control.

- a) 3 MHz Res B.W. (set span at 100 MHz/Div)
- b) 1 MHz Res B.W. (set span at 50 MHz/Div)
- c) 300 KHz Res B.W. (set span at 10 MHz/Div)
- d) 150 KHz Res B.W. (set span at 5 MHz/Div)
- e) 75 KHz Res B.W. (set span at 1 or .2 MHz/Div)
- f) Optional 10 KHz Res B.W. (set span at .2 MHz/Div)

Extends lower frequency range to approximately 200 KHz.

Note: A Narrow Band Cavity Oscillator is swept for .2MHz/Div span so that signals can be observed with low oscillator noise contribution.

#### SENSITIVITY

-95 dBm

#### AMPLITUDE ACCURACY

±2 dB typical

#### FREQUENCY DISPLAY

4 digit LCD Frequency Readout

#### DIMENSIONS

11 1/2" W X 5 1/2" H X 13 1/2" D

#### WEIGHT

18 lbs. / 8.18 Kg

#### POWER REQUIREMENTS

External 115 VAC 60 Hz / 12 VDC

Internal 12V Gel Cell Battery

220/240 Volt models available