

## SPM-50 RF Spectrum Power Meter

SPM-50A Spectrum Power Meter brings innovative testing concept and approach for RF cable system installation and maintenance. It combines the key function of a spectrum analyzer and power meter. SPM-50 is designed to measure the power characteristics of a particular signal among mixed signals transmitted on cable while quickly and accurately presenting the result in a power histogram or spectrum chart.

SPM-50A supports normal, burst and frequency segment sweep modes to acquire information of forward power, reflected power, return loss, VSWR, peak power, crest, CCDF, duct cycle and etc.

### Feature

- ◆ Combination of power and spectrum analyzer
- ◆ Test mode: normal, burst and frequency segment sweep
- ◆ Burst test: Burst average power, burst peak power, duty cycle
- ◆ Power histogram or spectrum chart
- ◆ Preset frequency band for fast scan
- ◆ Live testing through feeder cable system
- ◆ Working with PC software or handheld monitor
- ◆ USB communication port
- ◆ Reverse protection
- ◆ Compact design, 495g



## Specifications

Basic Specification	
Frequency Range	400MHz ~ 4000MHz
Return Loss	0 ~ 23dB
Max Input Power	57dBm
Input VSWR	<1.1
Insertion Loss	≤0.1dB
Directivity	≥30 dB (<3GHz); ≥28 dB (>3GHz)
Test Mode	Segment Sweep / Single Normal / Single Burst
Segment Sweep Specification	
Frequency Range	5M~3.6GHz
Frequency Resolution	10KHz
Frequency Stability	±2.5ppm
Filter Bandwidth (3dB)	1MHz
Power Range	10~57dBm
Power Accuracy	±0.8 dB
Power Measurement Specification	
Power Range	Average: 100mW ~ 200W (20 ~ 53dBm)
	Peak: 100mW ~ 500W (20 ~ 57dBm)
Peak Average Ratio	<12dB
CCDF	0.1 ~ 100%
Power Resolution	±0.01 dB
Power Accuracy (Single Normal)	±0.3dB (0°C ~ +15°C or +35°C ~ +50°C increase ±0.4dB) NOTE: lower 700MHz or higher 3300MHz, increase +3%
Burst Measurement Specification	
Burst Width	30us ~ 80ms
Duty Cycle	0.001-1
Min. Measurement Frequency	12Hz
Average Burst Power	100mW~200W or 20~53dBm
General Specification	
PC Connection	USB
RF Port	N-type female (50Ω)
Power Supply	USB Power: 5V, 500mA
Power Consumption	≤ 2W
Working Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Humidity	0 ~ 95% (Non-condensing)
Weight	495g
Dimensions	130x(95)x124x34mm (H x W x T)