BANTAM INSTRUMENTS

SATELLITE UP/DOWN LINK SPECTRUM ANALYZER

MODEL 470A 500 kHz to 199 MHz

ALIGNMENT AND VERIFICATION OF SATELLITE SYSTEMS



- Covers both 70 MHz and 140 MHz IF Frequencies for ultimate versatility
- 10 kHz Frequency Resolution and 10 kHz Resolution Bandwidth for precise IF monitoring.
- Extremely small, lightweight, and battery powered, or external 12 VDC and 100-240 VAC operation
- -100 dBm sensitivity and 70 dB dynamic range exceeds receiver threshold and performance specifications
- Low cost affordability suits a variety of uses for uplink and downlink applications
- Internal memories store measurement setups and traces
- Serial Interface allows data transfer for remote monitoring applications
- Simple straight-forward operation, even if you have never used a spectrum analyzer before

The Model 470A Satellite Up/Down Link Spectrum Analyzer is specifically designed to meet the needs of the satellite communications industry. Whether monitoring in a network truck or being used by technicians installing or monitoring satellite link systems in the field, this spectrum analyzer offers unparalleled performance and ease of use, all at a very low cost.

With the Model 470A you can quickly monitor the entire IF spectrum, or zoom-in accurately to a specific area of interest. Store the measurement setup for repeated use in the field and store the measurement data as well. With greater than -100 dBm sensitivity, you can search for and identify interfering or potentially interfering signals. Align dish antennas easily, accurately, and quickly even in the presence of line of sight obstructions.

The 470A offers incredible ease of use. Frequency presets center the frequency at either 70 MHz or 140 MHz. A built-in serial interface allows transfer of data directly to a PC or for remote monitoring applications. PC Enhancement Software supplied with the 470A can download continuous measurement data to the screen of a Windows-based PC. The 470A Spectrum Analyzer can be placed at one location and the measurement can be viewed a distance away on the screen of a PC, making antenna alignment simple and straightforward.

MODEL 470A PERFORMANCE SPECIFICATIONS

FREQUENCY

Frequency Range: Freq. Resolution, Span>100 kHz: Freq. Resolution, Span≤100 kHz Span: Span Resolution: Frequency Markers: Marker Resolution (Frequency): Marker Resolution (Amplitude): Marker Readout Accuracy: Resolution Bandwidth, 3dB: Video Bandwidth:

GENERAL

Display: Display Backlight (optional) Operating Temperature Range: Storage Temperature: Line Power: Power (12-14 VDC): Dimensions, mm: Dimensions, inches: Weight: Safety and Electromagnetic Compatibility: 500 kHz to 199 MHz 100 kHz 10 kHz 0 MHz to Entire Band 100 kHz 3 1% of span or 10 kHz 0.1 dB 1% of span ±5 ppm 10 kHz, 120 kHz 300 Hz, 3 kHz

Monochrome LCD Electro-luminescent 0°C to 40°C -10°C to 50°C 6VA 0.4A max. 193H x 102W x 33D 7.6H x 4.0W x 1.3D 1.2 lbs (0.55 kg)

CE Mark Compliance

AMPLITUDE

Measurement Range: Displayed Average Noise Level at 120 kHz Resolution B/W, typical:

At 10 kHz Resolution B/W, typical:

Maximum Safe Input Level: Scale: Measurement Units: Intermods (3rds, -35dBm signals): Harmonic Distortion (-35 dBm): Amplitude Accuracy: Detection Modes:

Input Connector:

OTHER FEATURES Save/Recall, Setups: Save/Recall, Traces: RS-232 Interface Speed: RS-232 Interface Connector: Data Download Modes: -95 dBm, span<10 MHz -90 dBm, span>10 MHz -105 dBm, span>10 MHz -100 dBm, span>10 MHz +23 dBm, 50 VDC 1, 2, 5, 10, 20 dB/div dBm, dB μ V -75 dBc, typical -75 dBc, typical ±2.5 dB, -40 to -75 dBm Normal, Quasi-Peak, Peak Hold, and Averaging SMA Female

-35 dBm to -105 dBm

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20 9600, 57600 Baud DB-9 (Female) Screen display as bitmap or Excel compatible data

ORDERING INFORMATION

	Model 470A Satellite Down Link Spectrum Analyzer\$2650		
	Includes: Batt	ery Charger, 100-240 VAC, 50/60 Hz	
	SM	A Male to BNC Female Adapter Cable	
	Seri	al Interface Cable	
	PC 1	Enhancement Software	
	Soft	Carrying Case	
	Ope	rating Manual	
	One	Year Warranty	
Option 001, Warranty Extension to 3 years\$2		anty Extension to 3 years\$200	
	Option 002, Backlight, for use in low illumination\$150		

OPTIONAL ACCESSORIES

9010-0002, Cigarette lighter 12 VDC adapter	\$25
9011-0001, 10 dB SMA Attenuator	\$30
9011-0002, 20 dB SMA Attenuator	\$30
9011-0003, 30 dB SMA Attenuator	\$30
9011-0004, 40 dB SMA Attenuator	\$60
9050-0001, Transit Case for Model 470A	\$80
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