

# AT5030

## SPECTRUM ANALYZER

3GHz



### FEATURES

- Compact and Easy to be carry
- Frequency range : 0.15~3000MHz (detailed ranges: 0.15 – 1000 MHz; 1000MHz – 2000MHz; 2000MHz – 3000MHz)
- 4 and half Digital display (center frequency, 0.1MHz resolvability)
- -100~+13dbm amplitude range, 20KHz, 400KHz
- 4 KHz video filter.
- Excellent Noise floor performance

### APPLICATIONS

- Test cable TV levels and frequency response
- Educational Training Institutions
- Test master antenna TV systems
- Measure communications transmitter spurious radiation
- Locate sources of EMI
- Measure unwanted RF radiation

### SUMMARY

AT5030 Spectrum Analyzer is a low cost, high performance digital synthesized and frequency-scanning and super heterodyne RF measurement instrument with frequency upto 3 GHz. These advanced features tunes within the frequency range by electro scanning and the frequency ponderance of its spectrum will be sampled according to the time. Therefore, the scanning and tuning spectrum analyzer can display the cycle signal and random signal.

In AT5030, there are kinescope and separately-packaged equipment, which are exported. AT5030 can test the signal with the range 0.15 ~ 3000MHz. And the center frequency can be adjusted through slightly tuning and roughly, which can form a sample measurement of frequency, with 100KHz/case ~ 100MHz/case added. A 4-and-half digits display can be chosen as center frequency or marked frequency reading.

The Spectrum Analyzer can carry out good inspection of the faults of cable system and wireless system including remote control, cordless phones, cable TV and communication equipments, as well as good comparison and analysis of frequency of signals.

TECHNICAL SPECIFICATIONS	
Frequency range	0.15 – 3000 MHz ( detailed ranges: 0.15 – 1000 MHz; 1000MHz – 2000MHz; 2000MHz – 3000MHz)
Display accuracy of center frequency	$\pm 2\% * \text{spectrum width} + 5 * 10^{-3} * \text{center frequency} - 100\text{KHz}$
Mark accuracy	$\pm 0.1\% \text{ frequency width} + 100\text{KHz}$
Frequency display resolution	100KHz (4 and a half LED)

Scanning-frequency width	100KHz/case ~ 100MHz/case and level 1, 2, 5, 0Hz/case (0 scanning)	
Accuracy:	± 10%	
Frequency stability:	better than 150KHz/h	
Middle-frequency(-3dB)	20KHz; 400KHz, video filter(pass); 4KHz	
Scanning Velocity	43Hz	
Scope		
Range	- 100 ~ +13dBm	
Screen display range	80 dB (10dB/case)	
Reference level of electricity	-27dBm ~ + 13dBm(in 500MHz)	
Average noise level of electricity	-90dBm(bandwidth 20KHz)	
Tortion	twice, three times wave < -55dBc	
3-class intertuning	- 70 dBc	
Sensitivity:	better than – 90dBm	
Real Scale:	± 2dB(without attenuation) (in 500MHz)	
Input		
Impedance:	50Ω	
Socket:	SMA (F) connector	
Attenuation:	0 ~ 30dBm(3*1dB stepping)	
Input attenuation accuracy:	± 1dB/10dB	
Max input level of electricity:	+10dBm, ± 25VDC(attenuator 0dB), ± 20dBm (30dB attenuation)	
General configuration		
Power	200VAC/110VAC ± 10%, 50Hz ~ 60Hz	
Trace calibration	Adjusting on the panel (TR)	
Power Consumption	20W ± 20%	
Protection	first-class safety (IEC 1010 – 1)	
Dimension	285(W) * 125(H) * 380(D) mm	
Weight	about 7kg	
Accessories		Optional Accessories
Mains Cord - 1 No. Instruction Manual - 1 No.		1. High Impedance (Active FET Probe) - AZ330-H 2. Magnetic Field Probe - AZ330-M 3. Electric Field Probe - AZ330-E

Reflecting Atten's commitment to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification. We pursue a policy of continuous development and product improvement. Thus the specifications and picture in this Spec sheet may be changed to make product improvements at any time and without notice and is not responsible for typographical errors.

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