

1GHz Spectrum Analyzer



Aplab Spectrum Analyzer can be used to observe and analyze wide variety of signals right upto 1050MHz. Test different types of communication equipment. Test mobile handsets, cord-less phones, AM/FM transmitters and receivers. Test Cable TV levels and frequency response. Test Master Antenna TV systems. Measure communications transmitter spurious radiation. Locate sources of EMI. Measure unwanted RF radiation.

Features

- Frequency Range : 150KHz to 1050MHz
- 4½ Digit Display : Centre & Marker Frequency, 0.1MHz Resolution
- Amplitude Range : -100dBm to +13dBm
- Filters : 20KHz, 400KHz & Video Filter
- AM /FM Demodulator Included
- Full Range Built-in Tracking Generator : 0.15MHz to 1050MHz
- Output Power : +1dBm to -50dBm (50 ohms)
- Optional near-field sniffer probe set to locate cable and PC board emission “hot-spots, evaluate EMC problems at the breadboard and prototype level. Ideal solution for RF leakage/radiation detection

Technical Specifications

FREQUENCY

Frequency Range	: 150KHz to 1050MHz (-3dB).
Frequency Resolution Displayed	: Resolution 100KHz, Display 4 digit.
Center Frequency Display Accuracy	: ±100KHz.
Marker Accuracy	: 0.1% Span +100KHz.
Frequency stability (Drift)	: <150KHz / hr.
Frequency Scanwidth	: Zero scan 0Hz/div, and 100KHz/div to 100MHz/div in 1-2-5 sequence.
Frequency Scanwidth Accuracy	: ±10%.
IF Bandwidth (-3dB)	: Resolution 20KHz & 400KHz.
Video Bandwidth, VBW	: 4KHz.
Sweep Time (Fixed)	: 23ms.

AMPLITUDE

Amplitude Range	: -100dBm to +13dBm.
Screen Display Range	: 80dB (10dB/div).
Reference Level	: -27dBm to +13 dBm (in 10dB steps).
Reference Level Accuracy	: ± 2 dB.
Average Noise Level	: -99dBm (20KHz RBW).
Frequency Response (Relative to 250MHz, ATTN 10dB)	: ± 2 dB.
Spurious Responses Intermodulation (3rd order)	: <-75dBc (2 signals, -27dBm each Freq. Distance >3MHz).
Harmonic Distortion (2nd, 3rd)	: <-75dBc.
Absolute Amplitude Accuracy	: ± 2.5 dB.

INPUT

Input Impedance	: 50 ohms.
Input Connector	: BNC.
Input Attenuator	: 0 to 40 dB (4 x 10 dB steps).
Input Attenuator Accuracy	: ± 2 dB / 10dB step.
Max. Input Level	: 10dBm, (0dB attenuation). +20dBm (with 20 dB attenuation). DC : ± 25 V.

TRACKING GENERATOR

Output Frequency Range	: 150KHz to 1050MHz.
Output Power Level	: -50dBm to +1dBm (in 10dB steps & fine control).
Output Attenuator	: 0 to 40 dB (4 x 10 dB steps).
Output Attenuator Accuracy	: ± 1 dB.
Output Flatness (150KHz to 1050MHz)	: ± 1.5 dB.
Spurious Outputs	:
Harmonic Spurs & Non harmonic Spurs	: <20dBc.
Output Impedance	: 50 ohms (BNC female).

MISCELLANEOUS

AM/Demodulator Included Ear phones	: Earphones, Load Impedance >8 Ohms.
Load Impedance	: >8W.

GENERAL

Display	: CRT 6 inch, 8 x 10 div internal graticule.
Trace Rotation	: Adjustable on front panel.
Power	: 230V AC $\pm 10\%$, 47-53Hz. Optional 115V AC $\pm 10\%$, 57-63Hz.
Power Consumption	: Approx. 25W.
Operating Temp.	: +10°C to +40°C.
Protective system	: Safety class 1 (IEC 1010-1).
Dimension	: 265 (W) x 125 (H) x 380 (D) mm.
Weight	: Approx. 7 Kg.

ACCESSORIES SUPPLIED

- : Mains Cord - 1 No.
- : BNC to BNC - 1 No.
- : Instruction Manual - 1 No.

OPTIONAL ACCESSORIES

- : 1. High Impedance (Active FET Probe) - SAZ330-H
- : 2. Magnetic Field Probe - SAZ330-M
- : 3. Electric Field Probe - SAZ330-E
- : 4. Feed-thru Terminator
- : 5. 4 AA size Batteries



SAZ330-H



SAZ330-M



SAZ330-E

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