

500MHz Spectrum Analyzer



Features

- ★ Frequency Range : 150KHz to 500MHz
- ★ 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 (only for SA3006)
- ★ 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.

Applications

APLAB Spectrum Analyzer can be used to observe and analyze wide variety of signals right upto 500MHz. 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.

Specifications

FREQUENCY

Frequency Range : 150KHz to 500MHz (-3dB).
 Frequency Resolution: Resolution 100KHz, Displayed Display 4 digit.
 Center Frequency : ± 100 KHz.
 Display Accuracy
 Marker Accuracy : 0.1% Span +100KHz.
 Frequency stability : <150KHz / hr. (Drift)
 Frequency Scanwidth: Zero scan 0Hz/div, and 100KHz/div to 100MHz/div in 1-2-5 sequence.

Frequency Scanwidth : $\pm 10\%$.
 Accuracy

IF Bandwidth (-3dB) : Resolution 20KHz & 400KHz.
 Video Bandwidth, : 4KHz.
 VBW
 Sweep Time (Fixed) : 23ms.

AMPLITUDE

Amplitude Range : -100dBm to +13dBm.
 Screen Display : 80dB (10dB/div).
 Range

Reference Level : - 27dBm to + 13 dBm (in 10dB steps).
 Reference Level Accuracy : ± 2 dB.
 Average Noise Level : -99dBm (400KHz RBW).
 Frequency Response : ± 2 dB.
 (Relative to 250MHz, ATTN 10dB)
 Spurious Responses : <-75dBc (2 signals, -27dBm Intermodulation each Freq. Distance >3MHz). (3rd order)
 Harmonic Distortion : <-75dBc. (2nd, 3rd)
 Absolute Amplitude Accuracy : ± 2.5 dB.

INPUT

Input Impedance : 50 Ω .
 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 (only for SA3006)

Output Frequency Range : 150KHz to 500MHz.
 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 : ± 1.5 dB. (150KHz to 1050MHz)
 Spurious Outputs :
 Harmonic Spurs & Non harmonic Spurs : <20dBc.
 Output Impedance : 50 Ω (BNC female).

MISCELLANEOUS

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

GENERAL

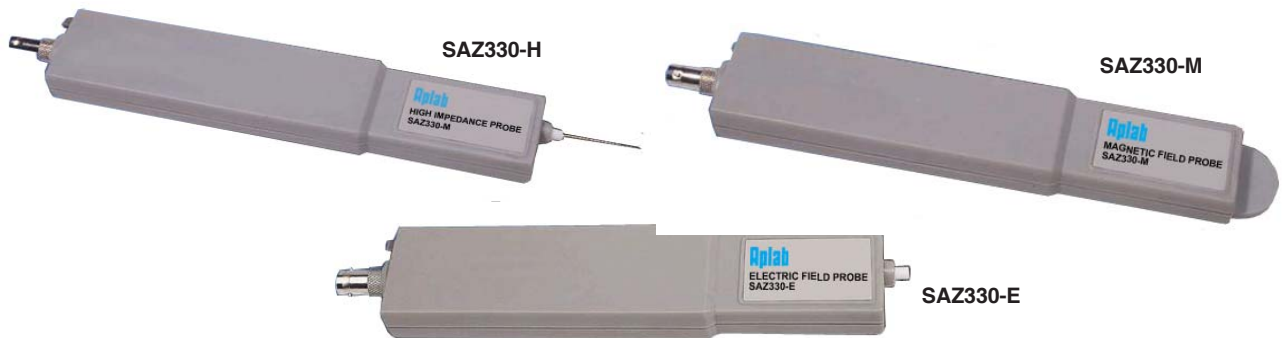
Display : CRT 6 inch, 8 x 10 div internal graticule.
 Trace Rotation : Adjustable on front panel.
 Power : 230V AC $\pm 10\%$, 47-53Hz. Optional 115V AC $\pm 10\%$, 57-63Hz.
 Power Consumption : Approx. 25W.
 Operating Temp. : +10 $^{\circ}$ C to +40 $^{\circ}$ C.
 Protective system : Safety class 1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

ACCESSORIES SUPPLIED

Mains Cord - 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



Aplab Test & Measurement Instruments

APLAB LIMITED

APLAB HOUSE, A-5, WAGLE ESTATE, THANE 400 604. INDIA. TEL : 25821861 FAX : 91-022-2582 3137
 EMAIL : tmsales@aplab.com WEBSITE : www.aplab.com

- BANGALORE Tel. : 080-23576001 to 07 Fax : 23576008 E-mail : aplabblr@aplab.com
- CHENNAI Tel. : 044-26680472, 26680477 Fax : 26680473 Email : aplabchn@aplab.com
- KOLKATA Tel. : 033-22455435, 22848834 Fax : 22454294 Email : aplabcal@aplab.com
- MUMBAI Tel. : 022-29201787, 29204642, 29203468 Fax : 29209066 Email : aplabwr@aplab.com
- NEW DELHI Tel. : 011-23515183/86, 23627467 Fax : 23634709 Email : aplabnd@aplab.com
- SECUNDERABAD Tel. : 040-27811012, 27843351, 27720339 Fax : 27897788 Email : aplabsec@aplab.com

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.