



Site Master™ Cable and Antenna Analyzer

DESCRIPTION

Site Master S331D covering the 25 MHz to 4000 MHz are designed to accurately locate and identify RF cable feed-line and antenna system faults. These models are ideally suited for any experience level user in installing, commissioning, troubleshooting and maintaining today's wireless systems infrastructures including VHF, broadcasting, paging, cellular, PCS/GSM, 3G, ISM, WLAN and WLL applications.



S331D measurement capability includes precision Return Loss/SWR, Cable Loss and Distance-To-Fault (DTF), and optional T1/E1 and power meter measurements. Patented RF interference rejection enables accurate, repeatable measurements in the presence of high RF activity. Data analysis software enables assessment of system trends, problems, and performance in addition to professional report generation.

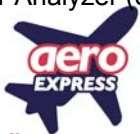
The S331D models include data analysis software, soft carrying case, rechargeable/field-replaceable battery, AC/DC power supply, 12V automobile cigarette lighter adapter and users guide.

FEATURES

- Handheld, battery-operated design
- Weighs less than 5 lbs. (including battery)
- Built-in worldwide signal standards and frequency channels
- Superior Immunity to RF interference
- Locate long range problems with 517 data points
- Pop-up cable menus containing over 95 cable types
- Multilingual User Interface; **English, French, Chinese, Japanese, Spanish, German**
- Intuitive and easy to use with On-Screen Test Set-Ups
- Saves up to 25 Measurement Test Set-Ups - S331D (Cable and Antenna Analyzer: 10, Power Meter: 5, T1 Analyzer: 5, and E1 Analyzer: 5).
- Saves up to 20 Measurement Test Set-Ups - S331D(Cable and Antenna Analyzer: 10, Spectrum Analyzer: 5, and Power Meter: 5)
- Saves up to 200 Measurement Traces
- Alphanumeric Labeling of Saved Measurements
- Automatic Time and Date Stamp of Saved Data
- Rechargeable, Field Replaceable Battery
- Distance Measurement in Feet and Meters
- Information Screens Provide Cable Attenuation and Velocity of Propagation values
- 6 Markers, Limit Lines, and Segmented Limit Lines
- RS232 Interface

OPTIONS

- Color LCD Display (option 3)
- Power Meter (option 29) - does not require external detector
- T1/E1 Analyzer (option 50 for S331D Models)



"Your Test Equipment Solution"

Phone: 816-246-4500 Toll-free: 800-580-AERO (2376)

Fax: 816-246-1452 www.aeroexpress.com

Product Specifications

All specifications apply when the unit is calibrated at ambient temperature after a five minute warm up. Typical values are given for reference, and are not guaranteed.

Cable and Antenna Analyzer

Frequency Range:	25 MHz to 4.0 GHz
Frequency Accuracy:	~ ±75 ppm @ +25°C
Frequency Resolution:	100 kHz
Output Power:	<0 dBm (-10 dBm nominal)
Immunity to Interfering Signals:	
on-channel	+17 dBm
on-frequency	-5 dBm
Measurement speed:	~3.5 msec / data point (CW ON)
Number of data points:	130, 259, 517
Return Loss:	Range: 0.00 to 60.00 dB Resolution: 0.01 dB
VSWR:	Range: 1.00 to 65.00 Resolution: 0.01
Cable Loss:	Range: 0.00 to 30.00 dB Resolution: 0.01 dB
Measurement Accuracy:	>42 dB corrected directivity after calibration
Distance-To-Fault	
Vertical Range:	Return Loss: 0.00 to 60.00 dB VSWR: 1.00 to 65.00
Horizontal Range:	Range: 0 to (# of data pts - 1) x Resolution to a maximum of 1197 m (3929 ft), # of data pts = 130, 259, 517
Horizontal Resolution (Rectangular windowing):	Resolution (meter) = $(1.5 \times 10^8) \times (V_p) / DF$ Where V_p is the cable's relative propagation velocity and where DF is the stop frequency minus the start frequency (in Hz)

General

Language Support:	Chinese, English, French, German, Japanese, Spanish,
Internal Trace Memory:	200 traces
Setup Configuration:	S331D - 25
Display:	VGA monochrome or VGA color LCD (Option 3) with adjustable backlight
Inputs and Outputs Ports:	
RF Out:	Type N, female, 50~
Maximum Input without Damage:	+23 dBm, ± 50 VDC
RF In:	Type N, female, 50~
Maximum Input without Damage:	+43 dBm (Peak), ± 50 VDC
Ext. Trig In:	BNC, female (5 V TTL) (S332D Models only)
Ext. Freq Ref In (2 to 20 MHz):	Shared BNC, female, 50~, (-15 dBm to +10 dBm) (S332D Models only)
T1/E1 (Receive & Transmit):	Bantam Jack (S331D Models with Option 50 only)
Serial Interface:	RS-232 9 pin D-sub, three wire serial
Electromagnetic Compatibility:	Meets European Community requirements for CE marking
Safety:	Conforms to EN 61010-1 for Class 1 portable equipment
Temperature:	
Operating:	-10°C to 55°C, humidity 85% or less
Non-operating:	-51°C to +71°C (recommended battery to store separately between 0°C to +40°C for any prolonged non-operating storage period)
Environmental:	MIL-PRF-28800F Class 2
Power Supply:	
External DC Input:	+12.5 to +15 volt dc, 1350 mA max
Internal:	NiMH battery: 10.8 volts, 1800 mAH
Dimensions:	
Size (w x h x d):	25.4 cm x 17.8 cm x 6.1 cm (10.0 in x 7.0 in x 2.4 in)
Weight:	<2.28 kg (<5 lbs) includes battery



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