

Quick Fact Sheet

Site Master™ S331L

S331L

2 MHz to 4 GHz Cable & Antenna Analyzer
50 MHz to 4 GHz Internal Power Meter

Handheld Cable & Antenna Analyzer Featuring Classic and Advanced Modes

The Site Master™ S331L is the best value in a low cost, field optimized, trusted, reliable, rugged, and easy to use, one port Cable & Antenna Analyzer. The Site Master S331L is a single port RF-IN instrument with USB and Ethernet interfaces.

Optimized for field use:

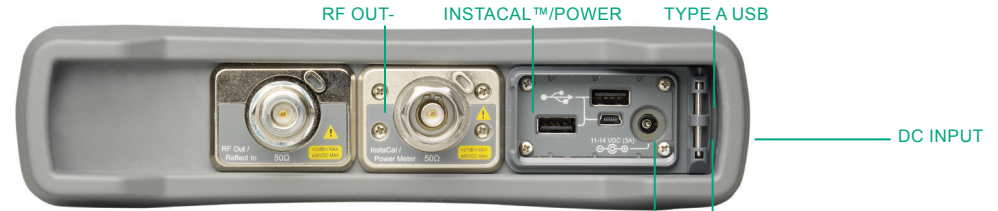
- > > 8 hour battery life
- > Instant On from standby mode
- > Highest RF immunity
- > Built-in InstaCal™ module with fast, one connection calibration
- > FlexCal™ Calibration — one calibration for all frequencies
- > Built-in power meter
- > Rugged and reliable
- > Impact, dust, and splash resistant
- > Smallest and lightest Site Master
- > Optical connector inspection with IEC 61300-3-35 based Pass/Fail standard (Requires USB Video Inspection Probe, sold separately)

Easy to use:

- > Integrated Help function
- > S331D-like classic mode
- > S331E-like advanced mode
 - Additional markers
 - Customizable shortcuts
 - Full-screen view
- > Multiple USB ports
- > 800 x 480 7" TFT touch screen
 - Alphanumeric keyboard
 - EZ name quick matrix
- > Backlit keypad
- > easyTest™

Efficient sweep management:

- > Internally store > 1000 files
 - Sweeps, setups, screenshots
- > Fast preview of stored sweeps
- > Line Sweep Tools (LST) software
 - Edit sweeps, rename, archive
 - Generate PDF or HTML reports
- > Standard *.dat sweep file format



All Connectors are conveniently located on the top panel, leaving the sides clear for handheld use. Connectors have splash proof covers to provide additional protection from



SIZE: 250 mm x 177 mm x 61 mm (10 in. x 7.1 in. x 2.4 in.)
WEIGHT: < 2.0 kg (4.4 lbs), INCLUDING BATTERY

TILT BAIL IS INTEGRATED INTO THE SOFT CASE FOR BETTER SCREEN VIEWING

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Site Master S331L

For Remote RF Signal Monitoring

Key Specifications

Cable & Antenna Analyzer	
Frequency Range	2 MHz to 4 GHz
Frequency Accuracy	± 5 ppm @ 23 °C ± 3 °C
Frequency Resolution	1 kHz
Return Loss	≤1.50 ms/data point, RF immunity low, typical
Distance-to-Fault	≤ 1.75 ms/data point, RF immunity low, typical
Interference Immunity	On-Channel +17 dBm outside calibrated sweep range On-Frequency +13 dBm within calibrated sweep range
Internal Power Meter	
Frequency Range	50 MHz to 4 GHz
Display Range	-100 dBm to +100 dBm
Measurement Range	-33 dBm to +20 dBm
Offset Range	Max ± 100 dB, user settable value
General	
Measurements	VSWR Return Loss Cable Loss (One Port) Distance-to-Fault (DTF) Return Loss Distance-to-Fault (DTF) VSWR Smith Chart 50 Ω/ 75 Ω (Advanced Mode Only) 1-Port Phase (Advanced Mode Only) Transmission with External Sensor (Advanced Mode Only)
Internal Trace Storage	> 1000 files (files may be traces, setups, screen shots, or any combination)
External Trace Storage	Limited only by size of USB Flash drive
Connectivity	GPS, Ethernet Configuration (DHCP/Static)
Display	TFT Resistive Touch Screen, 7.0" daylight viewable color LCD, 800 x 480 resolution, No more than five defective pixels (99.9986% good pixels)
Temperature	Operating Temperature -10 °C to +55 °C
Battery	Li-Ion > 8.0 Hours typical (70 % brightness setting, continuous usage)
Dimensions	250 x 177 x 61 mm, (10.0 x 7.1 x 2.4 in)
Weight	< 2.0 kg (4.4 lbs), including battery

Standard Accessories (included with instrument)

Part Number	Description
2000-1676-R	Soft Carrying Case
2000-1691-R	Stylus with Coiled Tether
2000-1687-R	Torque Multiplier N(m)
40-187-R	AC-DC Adapter
806-141-R	Automotive Power Adapter, 12 VDC, 60 W
3-2000-1498	USB A/5-pin mini-B Cable, 305 cm (120 in)
	Standard Three-Year Warranty (battery one-year warranty) Certificate of Calibration and Conformance

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