Anritsu envision : ensure

Product Brochure

Site Master™ S331P

Ultraportable Cable & Antenna Analyzer

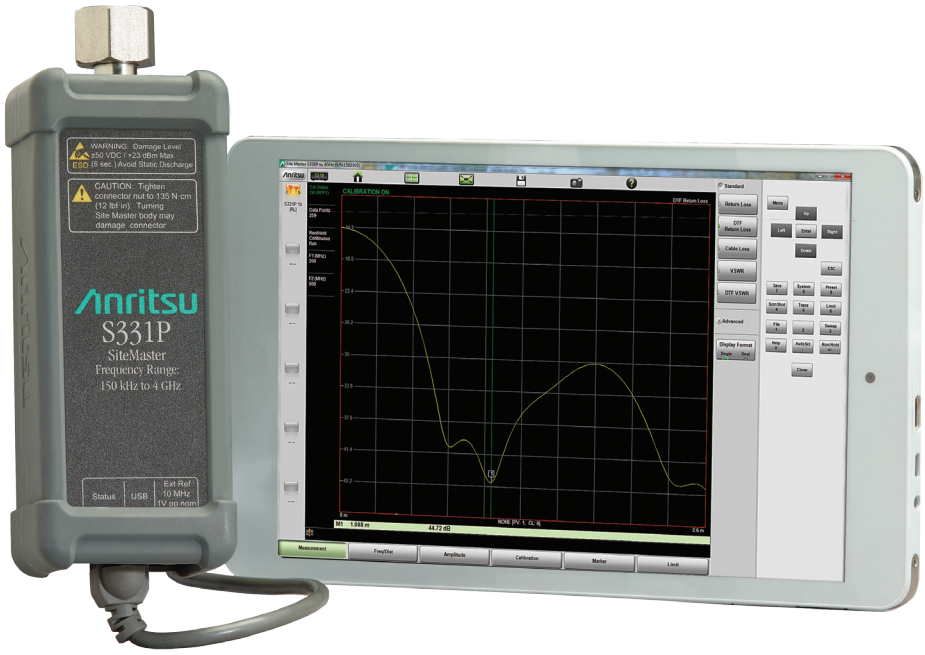
Featuring Classic & Advanced Modes
150 kHz up to 4 or 6 GHz

Site Master™ S331P Cable & Antenna Analyzer Overview

"Site Master is the most trusted, reliable, and preferred cable and antenna analyzer by tower contractors, installation and maintenance contractors, and wireless service providers."

Introduction

The S331P is the lightest, smallest, and fastest Site Master ever. Addressing the market need for broad frequency coverage and high performance in an extremely compact and economical design, the S331P provides wireless operators and contractors, DAS installers, and public safety network installers and maintenance professionals with the first pocket-sized headless cable and antenna analyzer that can measure the new LTE-U frequencies.



S331P Site Master Cable and Antenna Analyzer and Windows Tablet

Optimized for field use

- Smallest, lightest, fastest Site Master
- Direct connection to DUTs eliminating the need for phase stable cables
- Powered through USB interface (no battery required)
- FlexCal™ Calibration
  - One calibration for all frequencies
- Rugged and reliable
- Impact, dust and splash resistant
- Compatible with Anritsu software tools including easyTest and SkyBridge Tools

Easy to use

- Same familiar user interface as the S331L
- Integrated Help function
- S331D-like Classic Mode
- S331E-like Advanced Mode
  - Additional markers
  - Customizable shortcuts
  - Full-screen view

Efficient sweep management

- Store multiple file formats
  - 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
- Compatible with HHST
  - Widely accepted by operators
- Compatible with easyTest Tools and SkyBridge Tools
  - Reliable and quick creation of test plans
  - Fast and accurate testing
  - Fast and easy report creation

Site Master™ S331P Cable & Antenna Analyzer Features

Cable & Antenna Analyzer

S331P Site Master is ultraportable, rugged, and splash resistant

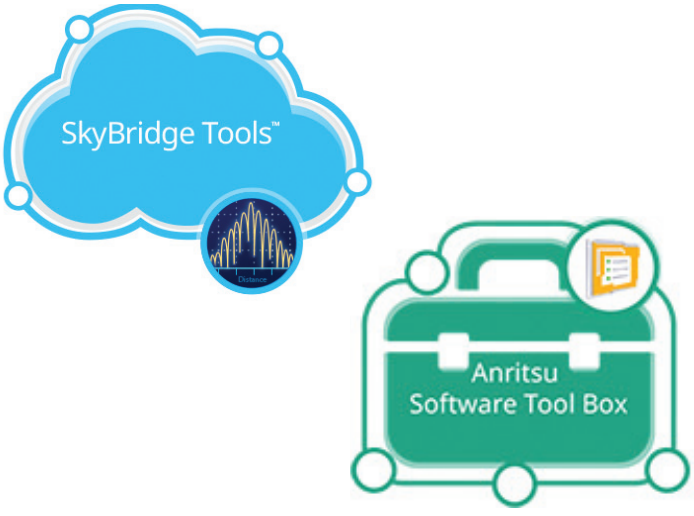
Rugged, dust and splash resistant, reliable, lightweight and portable

Site Master S331P is rugged, dust and splash resistant, reliable, field proven and always ready, even if the user is not. At under 0.4 kg (0.9 lbs), it's effortless to carry or store in a pocket whether the user is on level ground, climbing a large tower, or heading through a roof hatch, the Site Master is there.

Direct connection to DUTs

Direct connection to DUT without the need for expensive phase stable cables

The S331P is designed to connect directly to test devices without the need for expensive phase stable cables that could introduce measurement errors and uncertainties.



Compatible with Anritsu software tools

Compatible with Anritsu's full suite of software tools including SkyBridge Tools

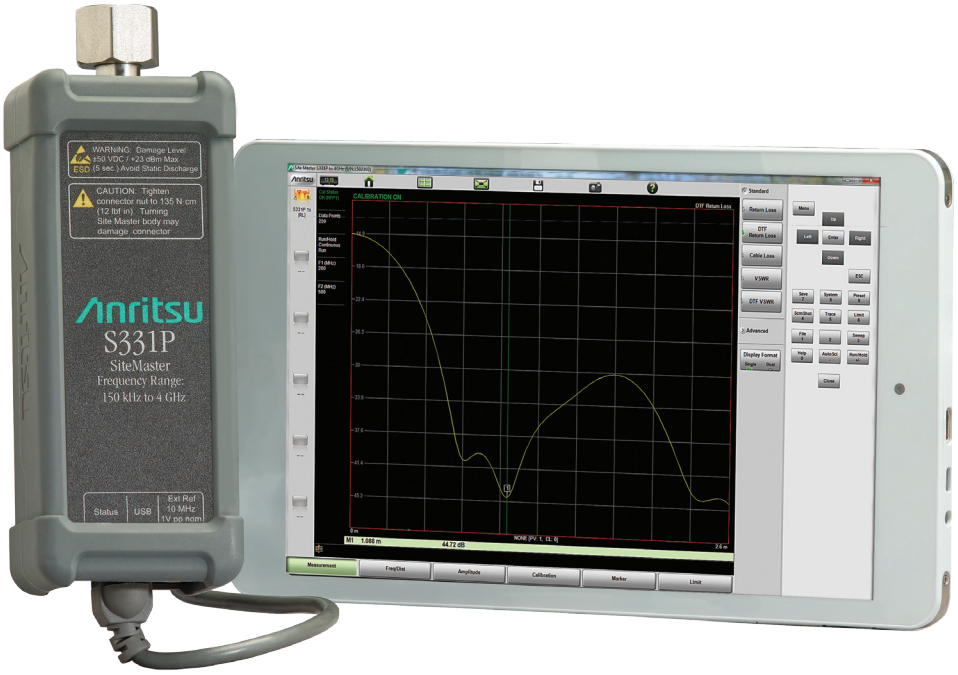
Anritsu's SkyBridge Tools brings simplified testing processes to the tower or DAS installation workflow. SkyBridge Tools enables reliable and quick creation of test plans, enables fast and accurate testing, and assists in report creation. This leads to less time testing, accurate tests, and reliable payment for work done.

Site Master™ S331P Cable & Antenna Analyzer Features

Cable & Antenna Analyzer

Use any Windows device to power and control the S331P

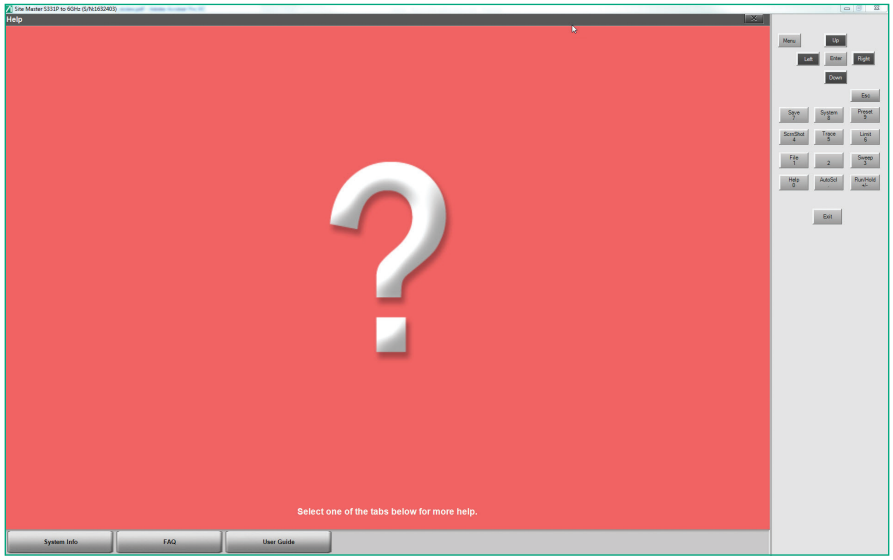
The S331P is powered and controlled by a wide variety of Windows devices including tablets, laptops and desktop PCs. All that is required is Windows 7, 8 or 10 and one available USB 2.0 port.



S331P running on a Windows 10 tablet

One Button Help

An intelligent, useful help menu launches with the press of the Help key.

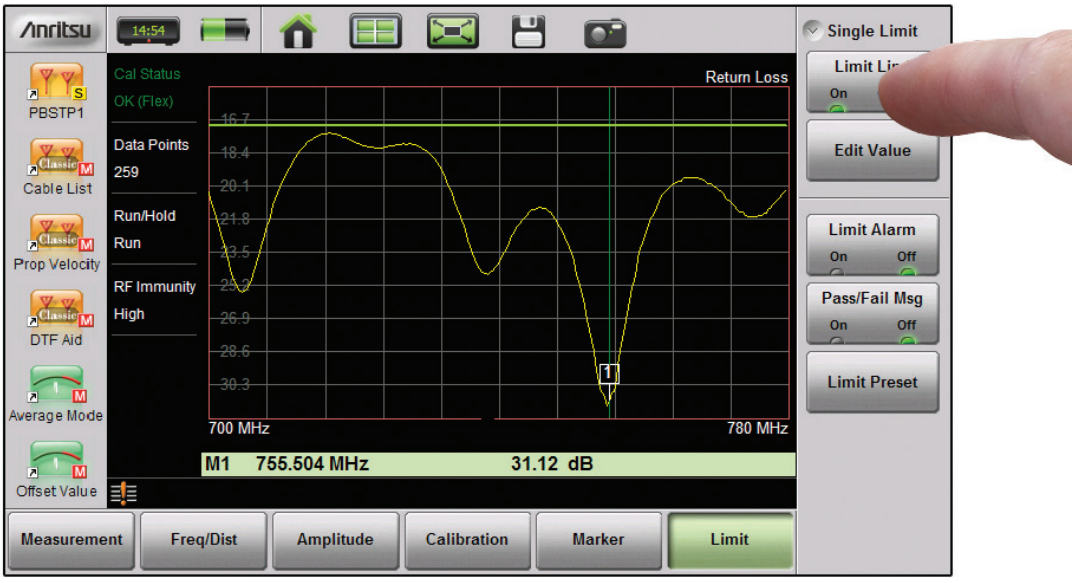


On screen Help Menu

Cable & Antenna Analyzer

Markers & Limits

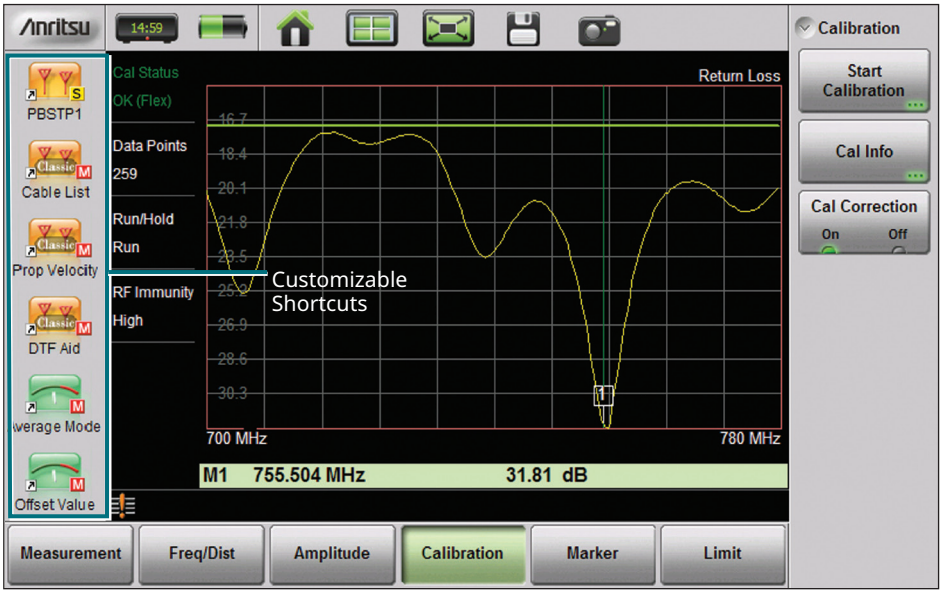
Using a mouse or fingers on a touchscreen, users can drag or place markers and limits anywhere on the measurement screen. Values can also be entered with a real keyboard or soft keyboard. There are several easy and convenient ways to place markers and limits where you want them, or use the auto search max/min peak functions if you prefer.



Dragging markers and limits with fingers is really easy and convenient

Convenient Shortcuts

User defined shortcuts can be created for one-button access to commonly used functions. (Advanced Mode only)



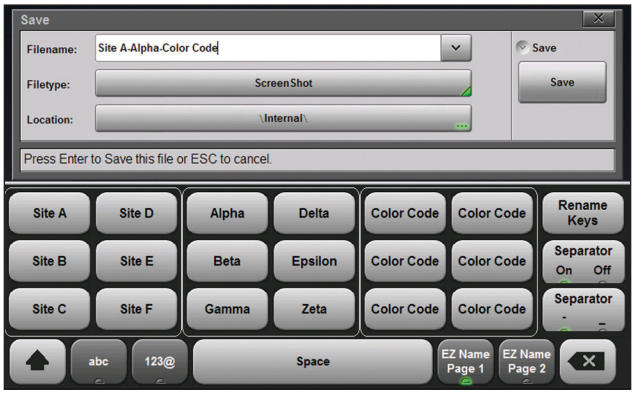
User definable shortcuts for frequently used functions

Site Master™ S331P Cable & Antenna Analyzer Features

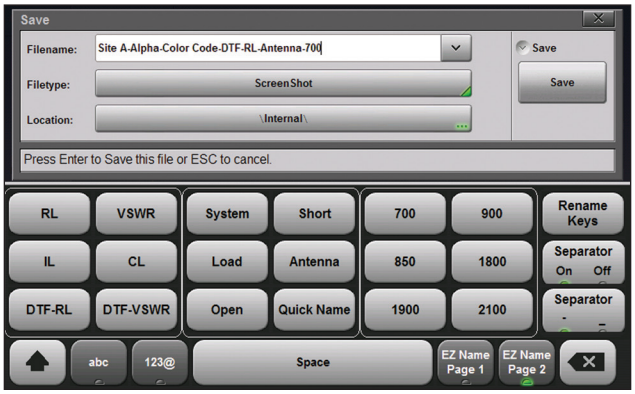
Cable & Antenna Analyzer

EZ Name Quick Naming Matrix saves valuable time

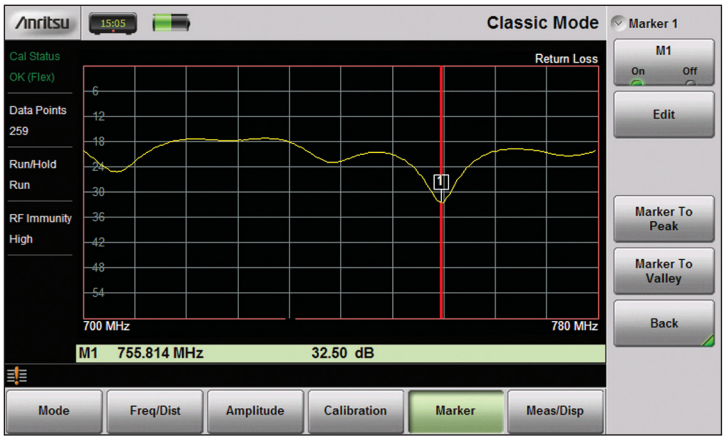
Unique to Anritsu, the customizable EZ Name Quick Naming Matrix saves valuable time. Users can preset up to 36 commonly used names. The resulting time saved is immediately beneficial. You can save file names labeled with Site ID, Sector, Color Code, Measurement type, Termination and Frequency in less than 5 seconds. Now you can label the traces of the entire site in minutes instead of hours.



Most common site name requirements are preprogrammed into the EZ Name Matrix. Page 1 of 2 shown.



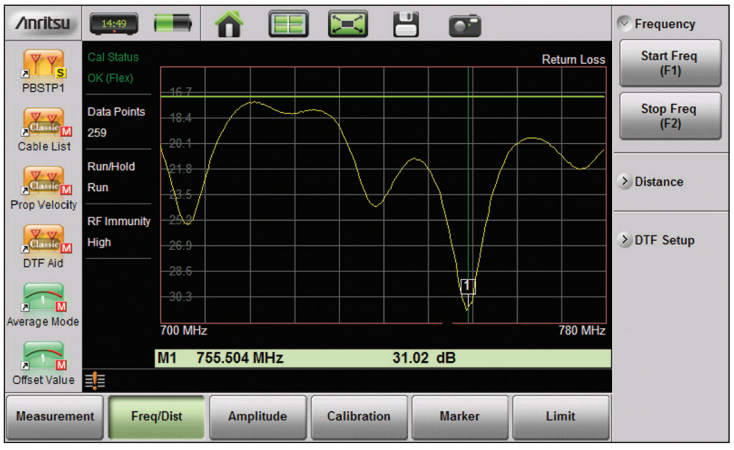
18 additional customizable EZ Name buttons available on page 2.



Classic mode can reduce or eliminate training for experienced Site Master users.

Classic Mode

The Site Master S331P offers a convenient Classic Mode that's easy to use. If you have used the Site Master D series model, or even older Site Master models, you'll find this Classic Mode familiar and easy to use. Complex filenames are no longer limited to 16 characters, there's plenty of characters available to suit any filenames you might require.



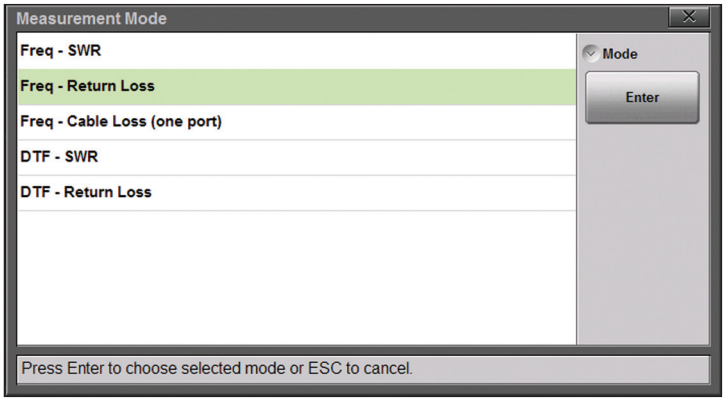
Advanced mode contains several powerful new features not available in Classic mode.

Advanced Mode

The Site Master S331P also offers a mode with more capability called Advanced Mode. Advanced Mode has a much more modern look and feel to it, and many users will immediately appreciate the new Advanced Mode GUI and button layout/function. With Advanced Mode you also get some extra capabilities such as 8 markers instead of 6. There are 6 customizable touch screen icons for quick recalling of regularly used setups, making operation easier and more efficient.

Site Master™ S331P Cable & Antenna Analyzer Features

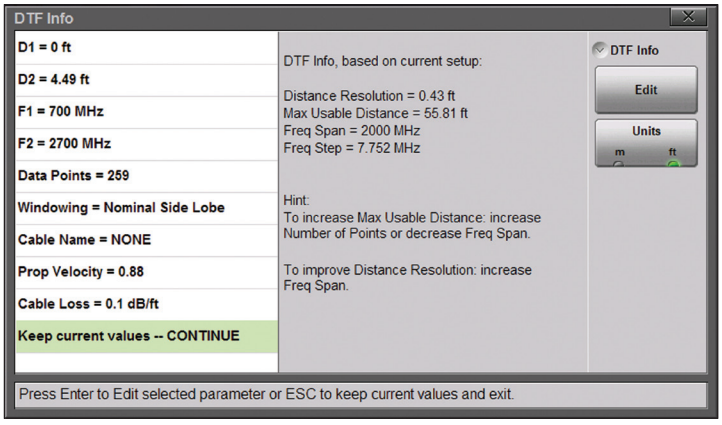
Cable & Antenna Analyzer



Classic mode selector screen. Same familiar layout as D models.

Classic Mode Measurement Selector Screen

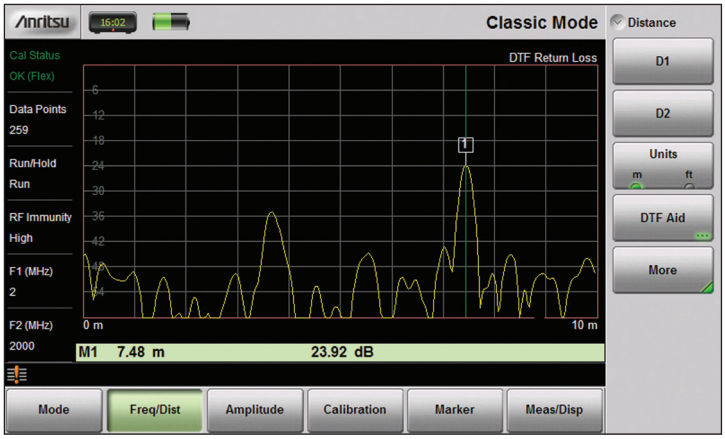
The Site Master S331P classic mode was developed based on customer feedback. Many of our loyal customers have asked us to create an easy to use GUI like the one they have become accustomed to on the Site Master D models. The result of that valuable feedback is what we are proud to call Classic Mode.



DTF Aid Parameter Screen. Same familiar layout as D models.

Classic Mode Distance-to-Fault Aid Menu Screen

DTF Aid screen contains the same options in a similar layout format as the Site Master D models. Former Site Master D model users should have no difficulty setting DTF parameters in Classic Mode. We've even added some useful hints to help optimize the settings.



Distance-to-Fault (DTF) measurement screen.

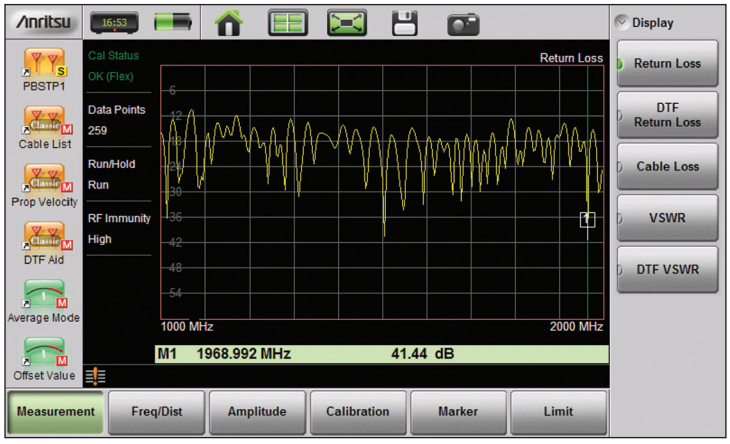
Classic Mode Distance-to-Fault Measurement

Here is an example of the Classic Mode Distance-to-Fault (DTF) measurement screen. Notice the Distance menu buttons labeled "D1" and "D2" just as they are in the D models.

These changes allow users experienced with older Site Master models to become immediately productive with the S331P, which saves training costs and downtime.

Site Master™ S331P Cable & Antenna Analyzer Features

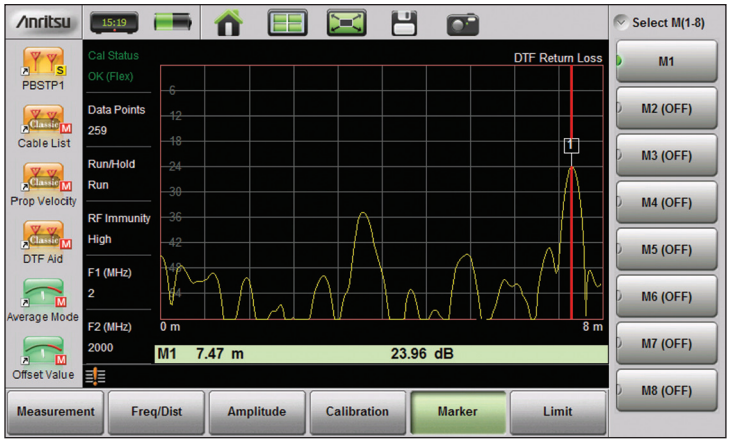
Cable & Antenna Analyzer



Easier access to desired measurement types in Advanced Mode

Advanced Mode Measurement Selector Screen

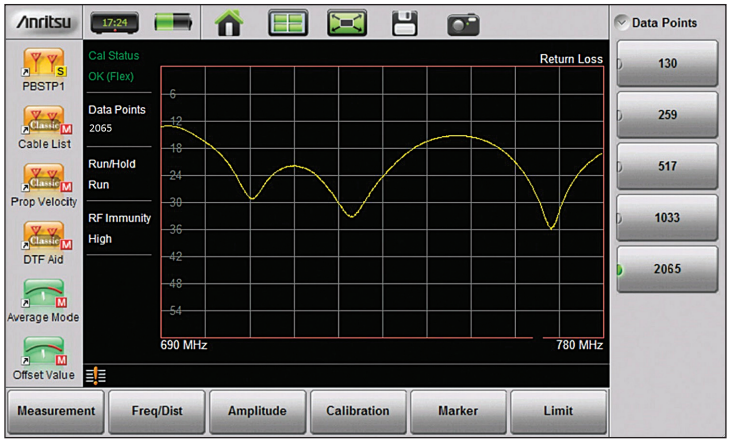
In Advanced Mode, users no longer need to press the Mode key before selecting desired measurement. Users are now able to select the desired measurement directly, simply by pressing the primary menu key "Measurement" then choose the desired measurement from the secondary menu keys on the right side.



8 Markers in Advanced Mode provides more flexibility

More Markers in Advanced Mode

In Advanced Mode you have 8 markers available to you. That's 2 additional markers which can be used as you wish, either as additional regular markers, additional delta markers, or additional bounded markers, providing more flexibility than Classic Mode.



With 1033 datapoints you can extend the maximum Distance-to-Fault range easily

2065 Datapoints

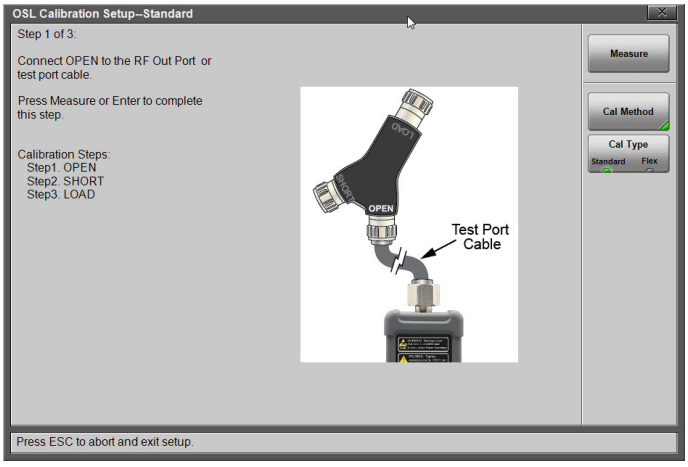
You have up to 2065 datapoints available for use. Increased datapoints can be used to provide better frequency resolution for your VSWR/RL measurements, or they can be used to extend the maximum distance range for your Distance-to-Fault (DTF) measurements without sacrificing distance resolution. A handy feature at your fingertips.

Site Master™ S331P Cable & Antenna Analyzer Features

Cable & Antenna Analyzer

OSL Calibration just got a lot easier!

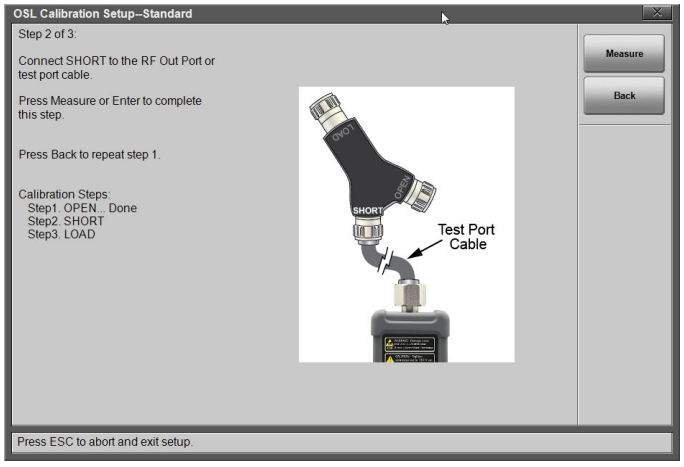
The S331P guides you through the entire OSL calibration process with not only text instructions, but with actual on-screen photos to aid the user during the entire process.



Step 1

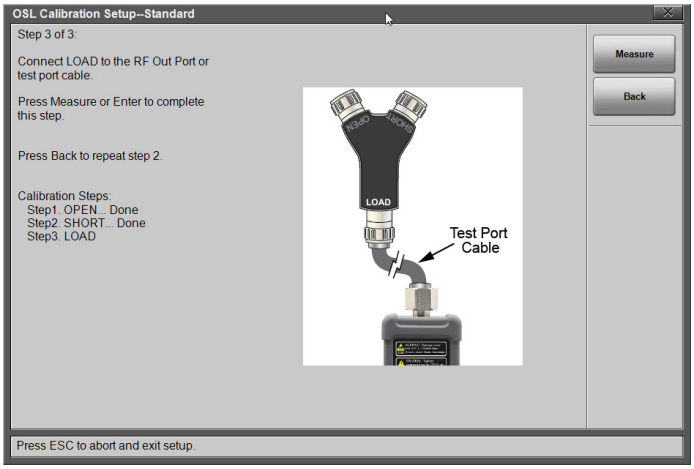
Connect OPEN as shown.

S331P will automatically guide you through the entire OSL calibration sequence step by step with pictures and instructions on screen.



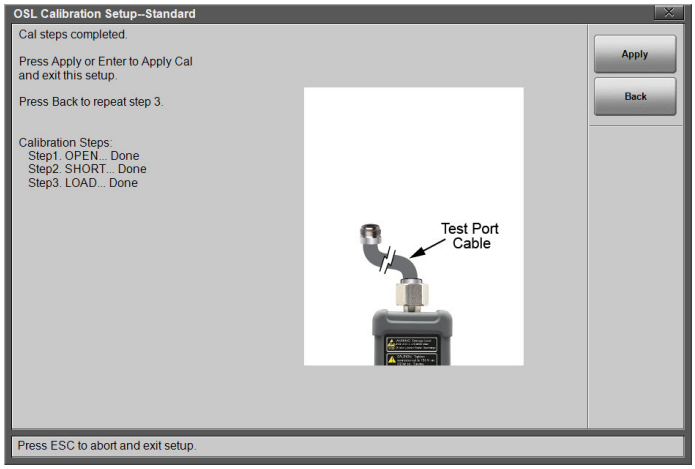
Step 2

Connect SHORT as shown.



Step 3

Connect LOAD as shown.

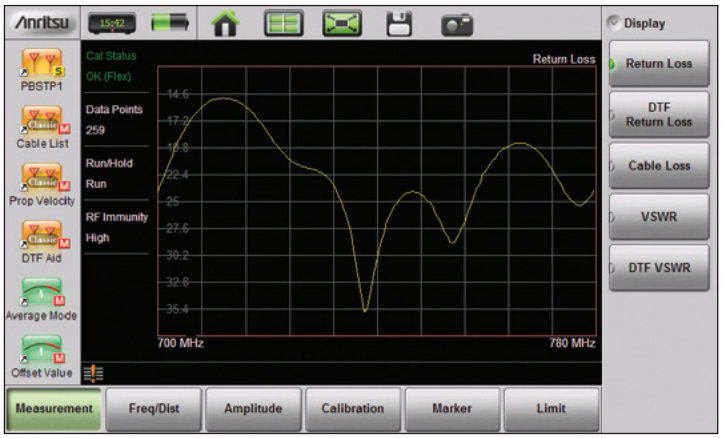


Step 4

Complete!

Site Master™ S331P Cable & Antenna Analyzer Features

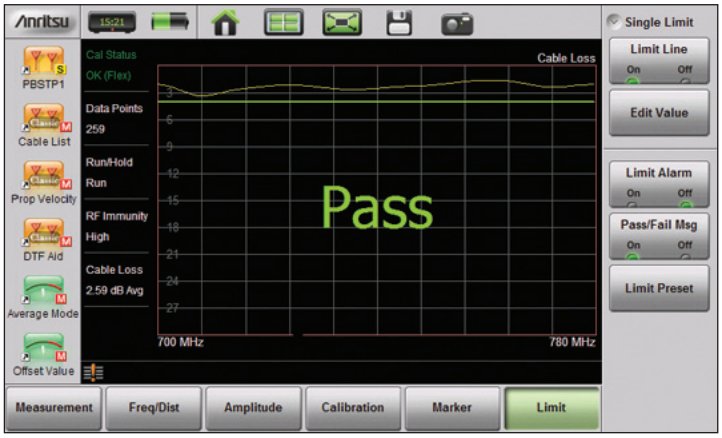
Cable & Antenna Analyzer



Return Loss measurement screen (Advanced Mode)

Return Loss/VSWR Measurement

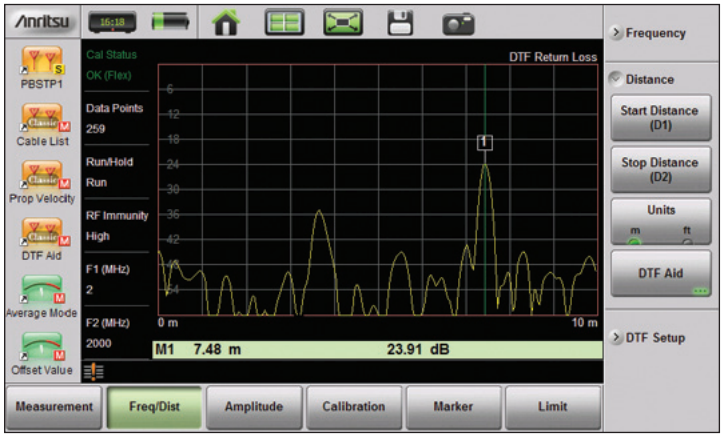
Poor Return Loss/VSWR can damage transmitters, reduce the coverage area, increase dropped and blocked calls, and lower data rates.



Cable Loss measurement screen (Advanced Mode)

Cable Loss Measurement

This is an important commissioning check. Excessive loss reduces the coverage area and can mask return loss issues, creating false good readings later.



Distance-to-Fault measurement screen (Advanced Mode)

Distance-to-Fault (DTF) Measurement

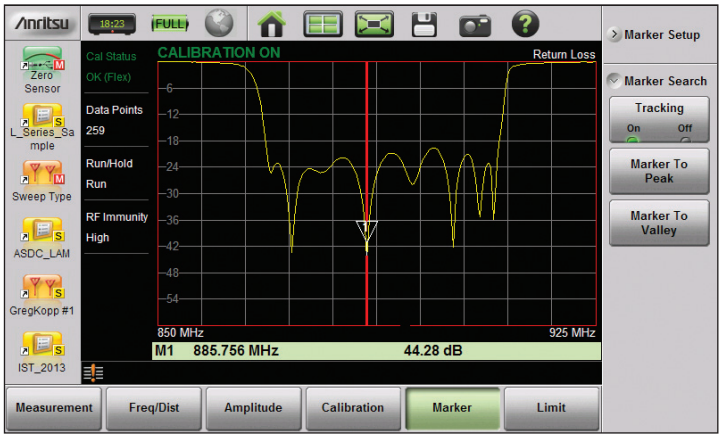
DTF can be used to identify and precisely locate faulty cables, components, or connector pairs with poor Return Loss/VSWR in meters or feet. Use 2065 points in Advanced mode to get more maximum distance without sacrificing resolution.

Cable & Antenna Analyzer

Upper/lower limits and segmented limit lines screen (Advanced Mode Only)

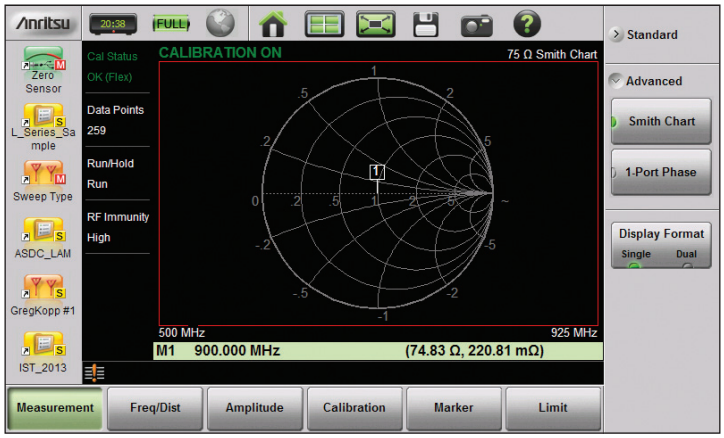
Feature additions/enhancements (Advanced Mode Only):

Upper/lower limits and segmented limit lines are now available. Up to 42 segments for both upper and lower limits may be created (84 segments total).



Marker peak/valley tracking screen (Advanced Mode Only)

Marker peak/valley tracking. This allows users to have the marker automatically track either the peak or valley response of a measurement, which is very useful when tuning devices.

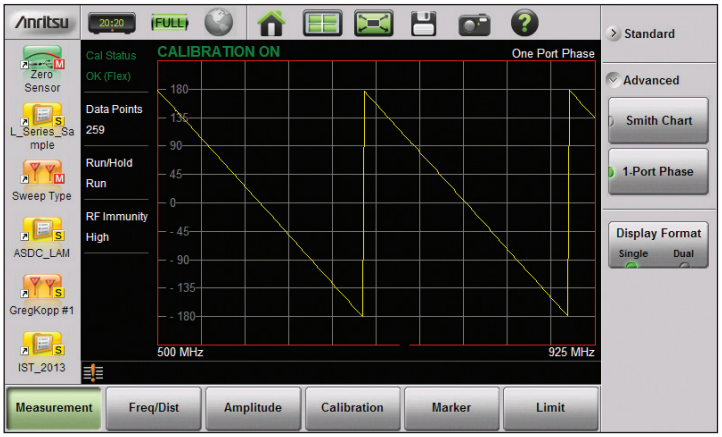


Smith Chart 50/75 Ω selectable screen (Advanced Mode Only)

Smith Chart (50/75 Ω selectable) has been added as an advanced measurement type. 75 Ω Smith Chart measurements are shown.

Site Master™ S331P Cable & Antenna Analyzer Features

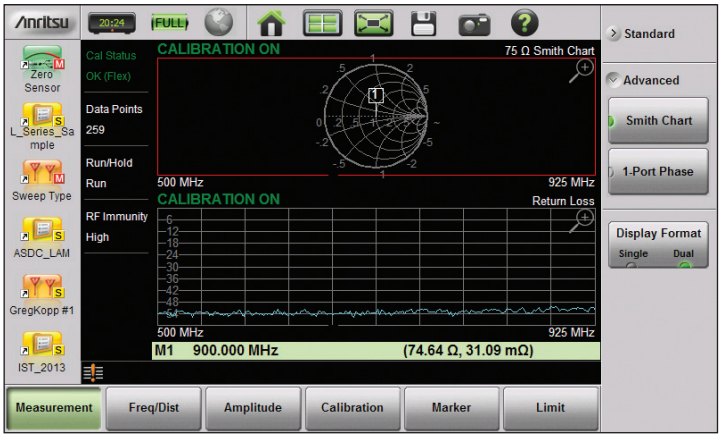
Cable & Antenna Analyzer



1-Port phase movement screen (Advanced Mode Only)

Feature additions/enhancements (Advanced Mode Only):

1-Port phase measurement has been added as an advanced measurement type.



Dual screen split horizontally screen (Advanced Mode Only)

Dual screen (split horizontally) has been added as an advanced measurement feature. Users may select any of the available measurement types when in dual screen mode.

Cable & Antenna Analyzer

Physical Information

Test Port Connector
N(m)

Back

Front

Micro USB Connector
With Latch

SkyBridge Tools™

Simplified Testing Process

Anritsu's SkyBridge Tools™ brings simplified testing processes to the DAS installation workflow. SkyBridge Tools enables reliable and quick creation of test plans, enables fast and accurate testing, and assists in report creation. This leads to less time testing, accurate tests, and reliable payment for work done.

DAS Needs Are Different

The need for documentation of antenna systems is increasing. A typical tower based antenna system might require 50 to 150 measurements, traces, and photos to show that the installation meets quality standards. A Distributed Antenna System (DAS), also known as an In-building or Outside Antenna System, may require 1,000 to 15,000 traces, photos, and other deliverables to show that the installation meets performance standards. Each of these deliverables needs to be inspected, renamed, and perhaps have the markers and limit lines set and judged. The manual inspection system that worked well enough for tower work does not scale well for the much larger DAS systems.

Create Test Plan

Test Plans are the start of the test simplification process. SkyBridge takes input from iBwave designer, Excel, and from customer supplied test criteria. This input is processed with the assistance of a wizard to create detailed Test Plans. These Test Plans enable test sequencing, job progress tracking, trace judgement, and report generation. Thousands of tests can be created in a few minutes with the assistance of the Test Plan Import Wizard.

Test Sequencing

Once a test plan is created, one button press will create a set of instrument control scripts (easyTests) for that test plan. Necessary tests as well as accurate instrument setups, limit lines, and required file names for the resulting traces are included in the scripts. These scripts can then be ran on the instrument, greatly reducing technician workload. Test time reduction of 90% has been observed, with increased accuracy. In many cases, failures will be visible while the cable is still connected to the instrument. Missing or duplicated tests, mis-configured setups, and mis-named traces are now a thing of the past.

Reporting

There are several choices for reporting. Traditional PDF or zipped reports are available, of course. However, reporting is also available in a CSV format, with one row per test. Each row contains the test name, the criteria, a significant number for the measurement, a pass/fail indication (even for cable loss), and a link to the PDF of the trace. These reports automate what has been a tedious process in past.

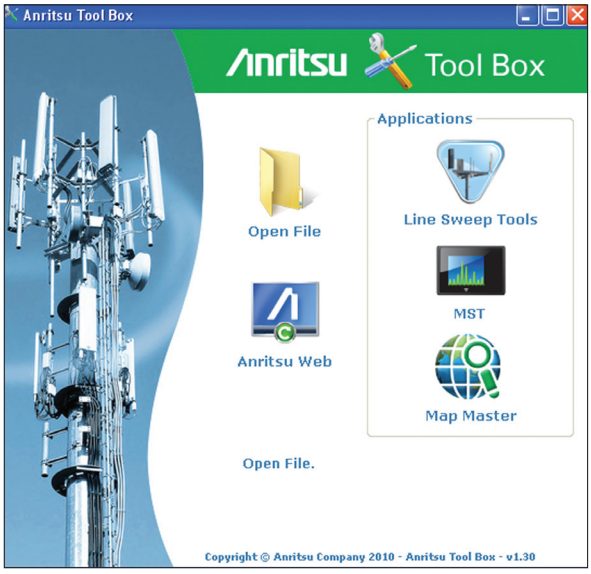
Site Master™ S331P Line Sweep and easyTest Tools

Line Sweep Tools™ (for your PC)

Collect Sweeps from Anritsu line sweep gear

Verify That cables and antenna systems meet specifications and that the sweeps were done properly

Report Findings quickly to the standards required by contract



The Anritsu Tool Box

The Anritsu Tool Box (included on disc or freely downloadable at www.anritsu.com) is a convenient central location where Anritsu supporting software programs and online support options can be found for most of our handheld product portfolio. Simply choose the desired application that suits your needs. The Anritsu Tool Box comes with LST and grows as more Anritsu tool box programs are added.

Marker and Limit Line Presets

Presets make applying markers and a limit line to similar traces quick and easy. They only need to be set once, and recorded. After this, applying them to a similar trace requires only one button push. This speeds up trace processing and makes providing consistent marker and limit line settings easy.

Naming Grid

A naming grid function makes changing file names, trace titles, and trace subtitles from field values to those required by contract simple and quick. Once the naming grid is populated with user defined file name segments, a few simple button presses will then fill out the file, title, and sub-title names. Quickly applied to multiple traces, the naming grid can save time, increase efficiency and accuracy.

Report Generator

The report generator will create a professional PDF or HTML based report. Reports includes GPS[1], power level[1], company logo[2], instrument and calibration status along with a display of all open traces. It also may contain additional information such as addresses and phone numbers.

HTML type reports may be post edited using programs such as Microsoft Word.

Line Sweep Tools (LST) is a free PC based program that increases productivity for people who deal with numerous Cable and Antenna traces every day. LST is the next generation of Anritsu's familiar Handheld Software Tools (HHST) and shares its user interface, giving a new face to the term "ease of use."

easyTest Tools™ (for your PC)

Cable Editor[3]

Instrument Cable Lists may be retrieved from the instrument, modified as required, and uploaded back into instrument.

Signal Standard Editor[3]

Signal Standard Lists may be retrieved from the instrument, modified as required, and uploaded back into instrument.

Distance to Fault[4] (DTF)

Easily convert Return Loss or VSWR traces to Distance to Fault traces with one button press.

Measurement Calculator

Provides quick conversion between commonly used measurement units such as VSWR, RL, and others.

Capture: Plots to Screen, Database, *.dat, *.jpg
Connect: To PC using USB, Ethernet, Serial
Download: Lists/measurements and live traces to PC for storage and analysis.
Upload[3]: Lists/measurements from PC to instrument.

Supported File Types

Input: *.dat, *.vna, *.mna, *.pim, *.tm
Output: *.dat, *.vna, *.pim, *.tm, *.csv, *.bmp, *.jpg, *.png

[1]Model dependent
[2]Optionally set by user
[3]Instrument type/model must match original
[4]Only *.dat and *.vna file types supported

easyTest Tools™

easyTest Tools allows users to create work instruction files on their PC, deliver these files by e-mail, and then display work instructions on the Site Master™ or Cell Master™ "E" series cable and antenna analyzers. These easyTest™ files provide step-by-step instructions for both the test setup and instrument operation.

easyTest works with the S331P, S331L, S331E, S332E, S361E, S362E, S820E, MT8212E, and MT8213E when operating in Cable and Antenna Analyzer mode.

Instrument Mode

Cable and Antenna Mode

PC Requirements

Anritsu's software tools runs on computers using Windows operating systems, specifically:
Windows XP, Service Pack 2 or higher, Windows Vista, Windows 7, 8, or 10.
PC must have at least 1 GB of RAM and 1 GB of available hard drive space.

Site Master™ S331P Ordering Information

Ordering Information

Model Number	Description
S331P	Cable and Antenna Analyzer (required one frequency option)
Frequency Options	
S331P-0704	150 kHz to 4 GHz
S331P-0706	150 kHz to 6 GHz

Calibration and Extended Warranty Options

Option	Description
S331P-ES510	Warranty Extension to 5 Years
S331P-ES513	Warranty Extension to 5 Years with Z540 Calibration
S331P-0098	Standard Calibration only (to ISO/IEC 17025:2005)
S331P-0099	Premium Calibration only with test data (to ISO/IEC 17025:2005)

Standard Accessories (included with instrument)

Part Number	Description
2000-1864-R	Soft Carrying Case
2000-1606-R	USB-A to Micro-B with latch cable, 1.8 m (6 ft)
2000-1687-R	Torque Multiplier N(m)
2300-578-R	USB memory device with the S331P Site Master application and user documentation Standard Three-Year Warranty Certificate of Calibration and Conformance

Reference Documents (Soft copies available at www.anritsu.com)

Part Number	Description
11410-00964	Site Master™ S331P Technical Data Sheet
10580-00426	Site Master™ S331P User Guide
11410-00674	Cable and Antenna Analysis Troubleshooting Guide

Site Master™ S331P Ordering Information

Optional Accessories

Calibration Components, 50 Ω

Part Number	Description
OSLN50A-8	Precision Open/Short/Load, N(m), 42 dB, DC to 8.0 GHz, 50 Ω
OSLNF50A-8	Precision Open/Short/Load, N(f), 42 dB, DC to 8.0 GHz, 50 Ω
2000-1618-R	Precision Open/Short/Load, 7/16 DIN(m), DC to 6.0 GHz 50 Ω
2000-1619-R	Precision Open/Short/Load, 7/16 DIN(f), DC to 6.0 GHz 50 Ω
22N50	Open/Short, N(m), DC to 18 GHz, 50 Ω
22NF50	Open/Short, N(f), DC to 18 GHz, 50 Ω
SM/PL-1	Precision Load, N(m), 42 dB, DC to 6.0 GHz
SM/PLNF-1	Precision Load, N(f), 42 dB, DC to 6.0 GHz

Calibration Components, 75 Ω

Part Number	Description
12N50-75B	Matching Pad, DC to 3 GHz, 50 Ω to 75 Ω
22N75	Open/Short, N(m), DC to 3 GHz, 75 Ω
22NF75	Open/Short, N(f), DC to 3 GHz, 75 Ω
26N75A	Precision Termination, N(m), DC to 3 GHz, 75 Ω
26NF75A	Precision Termination, N(f), DC to 3 GHz, 75 Ω

Adapters

Part Number	Description
510-91-R	7/16 DIN(f) to N(f), DC to 7.5 GHz, 50 Ω
510-96-R	7/16 DIN(m) to 7/16 DIN(m), DC to 7.5 GHz, 50 Ω
510-97-R	7/16 DIN(f) to 7/16 DIN(f), DC to 7.5 GHz, 50 Ω
1091-80-R	SMA(m) to N(f), DC to 18 GHz, 50 Ω
1091-81-R	SMA(f) to N(f), DC to 18 GHz, 50 Ω
1091-433-R	Low PIM Adapter, 4.1/9.5(f) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω
1091-434-R	Low PIM Adapter, 4.1/9.5(m) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω
1091-435-R	Low PIM Adapter, 4.1/9.5(f) to N(m), DC to 3.0 GHz, 50 Ω
1091-436-R	Low PIM Adapter, 4.1/9.5(m) to N(m), DC to 3.0 GHz, 50 Ω
1091-440-R	Low PIM Adapter, 4.3/10(f) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω
1091-441-R	Low PIM Adapter, 4.3/10(m) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω
1091-442-R	Low PIM Adapter, 4.3/10(f) to N(m), DC to 3.0 GHz, 50 Ω
1091-443-R	Low PIM Adapter, 4.3/10(m) to N(m), DC to 3.0 GHz, 50 Ω

Precision Adapters

Part Number	Description
34NN50A	Precision Adapter, N(m) to N(m), DC to 18 GHz, 50 Ω
34NFNF50	Precision Adapter, N(f) to N(f), DC to 18 GHz, 50 Ω

Attenuators

Part Number	Description
3-1010-122	20 dB, 5 W, DC to 12.4 GHz, N(m) to N(f)
42N50-20	20 dB, 5 W, DC to 18 GHz, N(m) to N(f)
42N50A-30	30 dB, 50 W, DC to 18 GHz, N(m) to N(f)
3-1010-123	30 dB, 50 W, DC to 8.5 GHz, N(m) to N(f)
1010-127-R	30 dB, 150 W, DC to 3 GHz, N(m) to N(f)
3-1010-124	40 dB, 100 W, DC to 8.5 GHz, N(f) to N(m), Unidirectional
1010-121	40 dB, 100 W, DC to 18 GHz, N(f) to N(m),
1010-128-R	40 dB, 150 W, DC to 3 GHz, N(m) to N(f)

Site Master™ S331P Ordering Information

Optional Accessories *(continued)*

USB Extender Kit (for 2-port cable loss/transmission (external sensor) measurements)

Model Number	Description
2000-1717-R	USB Extender, Requires Cat 5e extension cable (sold separately)
2100-28-R	Cat 5e extension cable for use with USB Extender (22.5 m)
2000-1900-R	Single Port USB 2.0 100 meter Cat 5e Extender (with Type A power cord for USA, Japan, North America,Central America and Caribbean)
2000-1901-R	Single Port USB 2.0 100 meter Cat 5e Extender (with Type C power cord for use in Europe, India, South Korea, and many countries in Middle East and Africa)
2000-1902-R	Single Port USB 2.0 100 meter Cat 5e Extender (with Type I power cord for use in Australia, New Zealand, Argentina, and the South Pacific)
000-1903-R	Single Port USB 2.0 100 meter Cat 5e Extender (with Type G power cord for use in the UK, and several other countries in Asia, the Middle East, and Africa)

Power Sensors (for external sensor transmission measurements: see sensor data sheets for complete information)

Part Number	Description
MA24104A	Inline Peak Power Sensor, 350 MHz to 4 GHz, +51.76 dBm
MA24106A	High Accuracy RF Power Sensor (FW Version 1.1 and above), 50 MHz to 6 GHz, +23 dBm
MA24108A	Microwave USB Power Sensor, 10 MHz to 8 GHz, +20 dBm
MA24118A	Microwave USB Power Sensor, 10 MHz to 18 GHz, +20 dBm
MA24126A	Microwave USB Power Sensor, 10 MHz to 26 GHz, +20 dBm
MA24208A	Microwave Universal USB Power Sensor, 10 MHz to 8 GHz, +20 dBm to –60 dBm
MA24218A	Microwave Universal USB Power Sensor, 10 MHz to 18 GHz, +20 dBm to –60 dBm
MA24330A	Microwave CW USB Power Sensor, 10 MHz to 33 GHz, +20 dBm
MA24340A	Microwave CW USB Power Sensor, 10 MHz to 40 GHz, +20 dBm
MA24350A	Microwave CW USB Power Sensor, 10 MHz to 50 GHz, +20 dBm

Backpack and Transit Case

Part Number	Description
67135	Anritsu Backpack (for instrument and PC)
760-283	Transit Case, USB 1 Port VNA (for MS46121A and S331P models)

Anritsu envision : ensure

Specifications are subject to change without notice.

• United States
Anritsu Company
1155 East Collins Boulevard, Suite 100,
Richardson, TX, 75081 U.S.A.
Toll Free: 1-800-267-4878
Phone: +1-972-644-1777
Fax: +1-972-671-1877

• Canada
Anritsu Electronics Ltd.
700 Silver Seven Road, Suite 120,
Kanata, Ontario K2V 1C3, Canada
Phone: +1-613-591-2003
Fax: +1-613-591-1006

• Brazil
Anritsu Electrônica Ltda.
Praça Amadeu Amaral, 27 - 1 Andar
01327-010 - Bela Vista - Sao Paulo - SP - Brazil
Phone: +55-11-3283-2511
Fax: +55-11-3288-6940

• Mexico
Anritsu Company, S.A. de C.V.
Av. Ejército Nacional No. 579 Piso 9, Col. Granada
11520 México, D.F., México
Phone: +52-55-1101-2370
Fax: +52-55-5254-3147

• United Kingdom
Anritsu EMEA Ltd.
200 Capability Green, Luton, Bedfordshire LU1 3LU, U.K.
Phone: +44-1582-433280
Fax: +44-1582-731303

• France
Anritsu S.A.
12 avenue du Québec, Batiment Iris 1-Silic 612,
91140 Villebon-sur-Yvette, France
Phone: +33-1-60-92-15-50
Fax: +33-1-64-46-10-65

• Germany
Anritsu GmbH
Nemetschek Haus, Konrad-Zuse-Platz 1
81829 München, Germany
Phone: +49-89-442308-0
Fax: +49-89-442308-55

• Italy
Anritsu S.r.l.
Via Elio Vittorini 129, 00144 Roma Italy
Phone: +39-06-509-9711
Fax: +39-06-502-2425

• Sweden
Anritsu AB
Kistagången 20B, 164 40 KISTA, Sweden
Phone: +46-8-534-707-00
Fax: +46-8-534-707-30

• Finland
Anritsu AB
Teknobulevardi 3-5, FI-01530 VANTAA, Finland
Phone: +358-20-741-8100
Fax: +358-20-741-8111

• Denmark
Anritsu A/S
Kay Fiskers Plads 9, 2300 Copenhagen S, Denmark
Phone: +45-7211-2200
Fax: +45-7211-2210

• Russia
Anritsu EMEA Ltd.
Representation Office in Russia
Tverskaya str. 16/2, bld. 1, 7th floor.
Moscow, 125009, Russia
Phone: +7-495-363-1694
Fax: +7-495-935-8962

• Spain
Anritsu EMEA Ltd.
Representation Office in Spain
Edificio Cuzco IV, Po. de la Castellana, 141, Pta. 5
28046, Madrid, Spain
Phone: +34-915-726-761
Fax: +34-915-726-621

• United Arab Emirates
Anritsu EMEA Ltd.
Dubai Liaison Office
P O Box 500413 - Dubai Internet City
Al Thuraya Building, Tower 1, Suite 701, 7th floor
Dubai, United Arab Emirates
Phone: +971-4-3670352
Fax: +971-4-3688460

• India
Anritsu India Pvt Ltd.
2nd & 3rd Floor, #837/1, Binnamangla 1st Stage,
Indiranagar, 100ft Road, Bangalore - 560038, India
Phone: +91-80-4058-1300
Fax: +91-80-4058-1301

• Singapore
Anritsu Pte. Ltd.
11 Chang Charn Road, #04-01, Shriro House
Singapore 159640
Phone: +65-6282-2400
Fax: +65-6282-2533

• P. R. China (Shanghai)
Anritsu (China) Co., Ltd.
27th Floor, Tower A,
New Caohejing International Business Center
No. 391 Gui Ping Road Shanghai, Xu Hui Di District,
Shanghai 200233, P.R. China
Phone: +86-21-6237-0898
Fax: +86-21-6237-0899

• P. R. China (Hong Kong)
Anritsu Company Ltd.
Unit 1006-7, 10/F., Greenfield Tower, Concordia Plaza,
No. 1 Science Museum Road, Tsim Sha Tsui East,
Kowloon, Hong Kong, P. R. China
Phone: +852-2301-4980
Fax: +852-2301-3545

• Japan
Anritsu Corporation
8-5, Tamura-cho, Atsugi-shi,
Kanagawa, 243-0016 Japan
Phone: +81-46-296-6509
Fax: +81-46-225-8359

• Korea
Anritsu Corporation, Ltd.
5FL, 235 Pangyoyeok-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13494 Korea
Phone: +82-31-696-7750
Fax: +82-31-696-7751

• Australia
Anritsu Pty Ltd.
Unit 20, 21-35 Ricketts Road,
Mount Waverley, Victoria 3149, Australia
Phone: +61-3-9558-8177
Fax: +61-3-9558-8255

• Taiwan
Anritsu Company Inc.
7F, No. 316, Sec. 1, Neihu Rd., Taipei 114, Taiwan
Phone: +886-2-8751-1816
Fax: +886-2-8751-1817

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