

ANRITSU

S362E

The Anritsu Site Master S362E is a combined handheld cable and antenna analyzer and spectrum analyzer designed to install, provision, and maintain wireless communication systems. Operating up to 6 GHz, it integrates a cable and antenna analyzer (2 MHz to 6 GHz) and a spectrum analyzer (9 kHz to 6 GHz) into a single, ruggedized, field-proven instrument.

SPECIFICATIONS

General

Interfaces	USB 2.0 Host (Type A, 2 ports), USB 2.0 Device (Mini-B, 1 port), 10/100 Mbps LAN (RJ45)
Display	8.4-inch (21.3 cm) daylight-viewable color resistive touchscreen (800 x 600 resolution)

Physical

Power Supply	12 to 15 VDC; External AC-DC Adapter: 100 to 240 VAC, 50 to 60 Hz
Operating Temperature	-10 to +55 °C °C
Dimensions (W×H×D)	273 mm x 199 mm x 91 mm (10.7 in x 7.8 in x 3.6 in) mm
Weight	3.71 kg kg

Cable and Antenna Analyzer Performance

Frequency Range	2 MHz to 6 GHz
Frequency Resolution	1 kHz
Output Power	-10 dBm (typical)
Measurement Speed	1.0 ms/data point (typical)
Number of Data Points	137, 275, 549, 1102, 2204
Directivity (Corrected)	≥ 42 dB (using OSL Calibration, 2 MHz to 6 GHz)
Source Match (Corrected)	≥ 30 dB
Load Match (Corrected)	≥ 28 dB
Return Loss Range	0 to 60 dB
Return Loss Resolution	0.01 dB
VSWR Range	1:1 to 65:1
VSWR Resolution	0.01
Cable Loss Range	0 to 30 dB
Cable Loss Resolution	0.01 dB
One-Port Phase Range	-180° to +180°
Distance-to-Fault (DTF) Return Loss Range	0 to 60 dB
Distance-to-Fault (DTF) VSWR Range	1:1 to 65:1
Distance-to-Fault (DTF) Maximum Distance	Up to 1500 m (4921 ft) depending on cable factor and resolution

Spectrum Analyzer Performance

Frequency Span Range	10 Hz to 6 GHz, plus 0 Hz (Zero Span)
Frequency Reference Accuracy	± 1.0 ppm/year (Aging); ± 0.3 ppm (Temperature Stability, -10 °C to 55 °C)
Resolution Bandwidth (RBW) Range	10 Hz to 3 MHz in 1-3 sequence
Video Bandwidth (VBW) Range	1 Hz to 3 MHz in 1-3 sequence
SSB Phase Noise at 10 kHz Offset	≤ -100 dBc/Hz @ 1 GHz
Displayed Average Noise Level (DANL)	-141 dBm in 10 Hz RBW (Preamp Off, 1 GHz); -162 dBm in 10 Hz RBW (Preamp On, 1 GHz)
Third-Order Intercept (TOI)	+16 dBm (typical at 2.4 GHz, Preamp Off)
Second Harmonic Distortion	≤ -75 dBc @ 1 GHz
Amplitude Measurement Range	DANL to +26 dBm
Maximum Input Damage Level	+30 dBm, ± 50 VDC
Absolute Amplitude Accuracy	± 1.25 dB (9 kHz to 6 GHz, Preamp Off)
Attenuator Range	0 to 55 dB in 5 dB steps
Preamplifier Gain	17 dB (100 kHz to 4 GHz), 10 dB (4 GHz to 6 GHz) (nominal)
Spectrum Analyzer Detectors	Peak, Negative, Sample, RMS, Normal
Zero Span Sweep Time Range	10 μ s to 600 s
Sweep Trigger Sources	Free Run, Single, Video, External, Gated (Option 90)

Connectors and Interfaces

RF Out / Reflect Port Connector	Type N, female, 50 ohms
RF In / Spectrum Analyzer Port Connector	Type N, female, 50 ohms
External Reference Input Frequency	2 MHz, 5 MHz, 10 MHz, 13 MHz, 15 MHz, 19.2 MHz
External Reference Input Connector	BNC, female, 50 ohms (shared with External Trigger)
External Trigger Input Connector	BNC, female, 50 ohms (shared with External Reference)
GPS Antenna Connector Type	SMA, female, 3.3V or 5V bias (Option 31)
Headset/Audio Jack	3.5 mm 3-wire headset jack

Display, Memory and Control

Display Type	Resistive daylight-viewable color TFT
Display Size	8.4-inch (21.3 cm) diagonal
Display Resolution	800 x 600 SVGA
Touchscreen Capabilities	Resistive touchscreen, supports stylus or gloved operation
Internal Memory Capacity	Approximately 2 GB internal flash memory
External Storage Support	USB flash memory drives
Screen Capture Formats	.png, .bmp

Optional Analyzer Capabilities

Internal Bias Tee Voltage Range	12 V to 32 V (Option 10)
Internal Bias Tee Maximum Current	450 mA (Option 10)
GPS Receiver Type	12 channels (Option 31)
GPS Acquisition Time	< 2.5 min (cold start), < 26 sec (warm start) (Option 31)
GPS Position Accuracy	< 2.5 m (horizontal, 3D coordinate) (Option 31)
Interference Analyzer Modes	Spectrogram, Signal Strength, RSSI, Signal ID, Interference Mapping (Option 25)
Channel Scanner Range	9 kHz to 6 GHz (Option 27)
Transmission Measurement Port Configuration	2-port Cable Loss / Gain using RF Out and RF In (Option 21)

Power and Battery Specifications

Battery Type	Lithium-Ion rechargeable
Battery Operating Time	3.0 hours (typical, configuration dependent)
Battery Charge Time (Typical)	4 hours (typical, instrument off)
AC/DC Adapter Input Voltage Range	100 to 240 VAC, 50 to 60 Hz
AC/DC Adapter Output Voltage	15 VDC, 5.0 A

Physical and Environmental

Operating Temperature Range	-10 °C to +55 °C
Storage Temperature Range	-40 °C to +75 °C
Maximum Operating Altitude	4600 m (15,000 ft)
Relative Humidity Limit	95% non-condensing
Shock Resistance Rating	MIL-PRF-28800F Class 2
Vibration Resistance Rating	MIL-PRF-28800F Class 2

Compliance and Calibration

Safety Standards Compliance	EN 61010-1:2010
EMC Directives and Standards	EN 61326-1:2013, EN 55011:2009/A1:2010
Recommended Calibration Cycle	1 year

Power Meter

Internal Power Meter Frequency Range	10 MHz to 6 GHz
Internal Power Meter Display Range	-100 dBm to +30 dBm

Vector Voltmeter

Vector Voltmeter Frequency Range	2 MHz to 6 GHz (Option 15)
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Gated Sweep

Gated Sweep Gate Delay Range	1 µs to 100 ms (Option 90)
Gated Sweep Gate Length Range	1 µs to 100 ms (Option 90)

Transmission Measurement

2-Port Transmission Dynamic Range	80 dB (2 MHz to 3 GHz), 70 dB (3 GHz to 6 GHz) (Option 21)
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Cable and Antenna Analyzer

Cable and Antenna Analyzer Measurement Modes	Return Loss, VSWR, Cable Loss, One-Port Phase, Smith Chart, DTF Return Loss, DTF VSWR
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CW Signal Generator (Option 28)

CW Generator Frequency Range	2 MHz to 6 GHz
CW Generator Output Power Range	-5 dBm to -80 dBm (nominal)

GPS Receiver (Option 31)

GPS Antenna Supply Voltage	3.3 V or 5.0 V
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AM/FM/PM Modulation Analyzer (Option 509)

AM/FM/PM Carrier Frequency Range	10 MHz to 6 GHz
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Interference Analyzer (Option 25)

Interference Analyzer Functions	Spectrogram, Signal Strength, RSSI, Signal ID, Interference Mapping
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Channel Scanner (Option 27)

Number of Channels Scanned	1 to 20 channels
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TECHNOLOGY

RF & Microwave Test

APPLICATIONS

Coaxial Cable & Antenna Testing, Spectrum Monitoring, Interference Analysis, and Field Commissioning

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