# World's Most Trusted Family of Handheld RF and Microwave Analyzers

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Spectrum Master 🆤

SiteMaster

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Introducing applications specific solutions for the RF and Microwave field testing industry

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CellMaster

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Site Master's seven models of site measurement tools accurately locate and identify cable and antenna system faults from 2 MHz to 20 GHz.



# Reduces Errors, Increases System Uptime



Anritsu's Site Master cable and antenna analyzers are the preferred choice of service providers, network operators and contractors worldwide who install, deploy, maintain and troubleshoot wireless communication systems.

Featuring an advanced synthesizerbased, handheld, battery-operated design, Site Master helps wireless field engineers and technicians detect cable feedline and antenna system problems before they become costly, time-consuming system failures.

- Return Loss/VSWR Measurements
- Cable Loss Measurement
- Distance-to-Fault Measurements
- 130, 259, or 517 Data Points
- ≥42 dB Corrected Directivity after Calibration
- Superior Interference Immunity
- Segmented Limit Lines
- Trace Overlay
- InstaCal<sup>™</sup> Calibration with Single Connection



# The Cell Master is the only instrument you need for complete base station maintenance and trouble-shooting.



# Now – Complete Cable, Antenna, and Base Station Analysis in a less than five pound box



The Cell Master from Anritsu is a single instrument that combines all of the tools required to simplify the job of maintaining and troubleshooting base stations.

The Cell Master combines the functionality of a cable and antenna analyzer, spectrum analyzer, AM/FM demodulator, power meter, channel scanner, transmitter analyzer (GSM and CDMA), transmission analyzer for 2-port devices (built-in RF source), interference analyzer, GPS receiver, CW Signal Generator and T1/E1 analyzer.

- TFT Color Display Viewable
   in Sunlight
- Built-in Worldwide Frequency Standards and Frequency Channels
- Vector Error Correction and Superior Immunity to Interference in Cable and Antenna Measurements
- 130, 259 or 517 Data Points
- Transmitter Measurements (GSM and CDMA) to Monitor Base Station Performance
- Built-in GPS Receiver for Location Information
- Interference Analyzer to Locate Intermittent Interference
- T1/E1 Histogram Display

# Spectrum Master T

# The MS2711D's exceptional performance, ease-of-use and broad functionality make it the ideal on-site survey and testing tool.



# Spectrum Analysis – Anywhere, Anytime



Anritsu's Spectrum Master handheld spectrum analyzer provides the "ultimate" in measurement flexibility in field environments and applications. Spectrum Master is the lightest, fully functional spectrum analyzer available for engineers and technicians to locate, identify, and solve communication systems problems without sacrificing measurement accuracy.

Operation is straight-forward. Menudriven and the smart measurement user interface is easy to use and requires little training.

- Wide Dynamic Range, Featuring -135 dBm DANL
- +43 dBm Maximum Safe
   Input Power
- Built-in Pre-Amplifier
- · Quick Zoom-in, Zoom-out Display
- Manual and Automatic Coupling/Decoupling of Span, RBW and VBW Functions
- Manual and Automatic Attenuator Control
- Field Strength Measurement
- Occupied Bandwidth Measurement
- ACPR (Adjacent Channel Power Ratio)



The MS2721A is the most advanced ultra-portable spectrum analyzer on the market, featuring unparalleled performance and size at a modest price.



## High Performance Handheld Spectrum Analyzer



Wide Dynamic Range - measuring a -114 dBm signal with the presence of a -22 dBm signal 20 kHz away.

Anritsu's MS2721A is taking Handheld Spectrum Analysis to new levels. The sensitivity provided by this instrument coupled with a wide selection of resolution bandwidth makes the MS2721A ideal for the most challenging measurements. The high performance delivered over the entire frequency range makes it an excellent tool not only in the field, but also in the lab.

Operation is intuitive. Smart measurements include field strength, channel power, occupied BW, ACPR, and C/I.

- Continuous Frequency Coverage from 100 kHz to 7.1 GHz
- Wide Dynamic Range, Featuring -153 dBm DANL Typical @ 1 GHz
- –100 dBc/Hz SSB Phase Noise at 10, 20, and 30 kHz Offset from Carrier
- Weight 2.9 kg (6.4 lbs.)
- Li-ion Batteries Deliver Approximately 4 Hours of Continuous Operation
- Fast Sweep Speeds
- +43 dBm Maximum Safe
  Input Power
- Large, Daylight Viewable, 8.4 in. TFT-LCD Display
- USB 2.0 and Ethernet 10/100 Interfaces
- External Compact Flash

# Models, Options and Accessories

### Site Master<sup>™</sup>

Models	S113C	S114C	\$331D	\$332D	S251C	S810D	\$820D
Frequency Range	2 to 1600 MHz	2 to 1600 MHz	25 to 4000 MHz	25 to 4000 MHz	625 to 2500 MHz	25 MHz to 10.5 GHz	25 MHz to 20 GHz
Display Points	130, 259, 517	130, 259, 517	130, 259, 517	130, 259, 517	130, 259, 517	130, 259, 517	130, 259, 517
Interference Immunity							
On-Frequency	+10	+10	-5	-5	+10 RF Out +30 dBc RF In	-10	-10
On-Channel	+17	+17	+17	+17	+17	+13	+13
Calibration Setups	10	10	15	25	10	25	25
Memory Locations (max)	200	200	200	200	200	200	200
Measurement Characteristics							
Return Loss	1	1	1	1	1	1	1
SWR	1	1	1	1	1	1	1
Cable Loss	1	1	1	1	1	1	1
DTF	1	1	1	1	1	1	1
Insertion Gain					1		
Isolation					1		
Insertion Loss					1		
TFT Color Display (Option 3)			1	1		Standard	Standard
Power Monitor (Option 5)	1	1			1	1	1
Built-in Bias Tee (Option 10)				1			
Built-in Bias Tee (Option 10B)					1		
Transmission Measurement RF Source (Option 21)				1			
Power Meter (Option 29)			1	1			
GPS Receiver requires external antenna (Option 31)						1	1
T1/E1 (Option 50)			1				
Spectrum Analysis (MHz)		0.1 to 1600		0.1 to 3000			

## Cell Master™

MT8212B		Options	
Cable and Antenna Analyzer Frequency Range	25 to 4000 MHz	Option 21	Transmission Measurement
Display Points	130, 259, 517	Option 25	Interference Analyzer (requires directional antenna)
Interference Immunity		Option 27	Channel Scanner
On-Frequency	-5	Option 28	CW Signal Generator
On-Channel	+17	Option 31	GPS (requires GPS antenna)
Return Loss SWR	J J	Option 33	cdmaOne and cdma2000 1XRTT Over the Air (OTA) (requires Options 31 and 43)
Cable Loss	1	Option 40	GSM RF Measurements
DTF	·	Option 42	CDMA RF Measurements
Spectrum Analyzer	0.1 to 3000 MHz	Option 43	cdmaOne and cdma2000 1XRTT demodulator
Power Meter	4.5 to 3000 MHz	Option 50	T1/E1 Analzyer

## Spectrum Master<sup>™</sup>

Models	MS2711D	MS2721A
Frequency Range	100 kHz to 3 GHz	100 kHz to 7.1 GHz useable down to 9 kHz
Span	10 Hz to 2.99 GHz (plus zero span)	10 Hz to 7.1 GHz (plus zero span)
Resolution Bandwidth (–3 dB width)	100 Hz to 1 MHz in 1-3 sequence	10 Hz to 3 MHz in 1-3 sequence
Sweep Time	Full span 1.1 sec, 50 µs, zero span	minimum 100 ms, 50 µs, zero span
SSB Phase Noise (1 GHz)	≤-75 dBc/Hz at 30 kHz offset	-100 dBc/Hz max to 10, 20 and 30 kHz offset
DANL	≤–135 dBm, ≥10 MHz in 100 Hz RBW	$\leq$ -153 dBm, typical at 1 GHz in 10 Hz RBW
Max Safe Input Power	+43 dBm	+43 dBm

MS2711D Options	
Option 3	Color Display
Option 6	Frequency Converter Control Interface (needed for FCN4760)
Option 10	Bias Tee (built-in)
Option 21	Transmission Measurements
Option 29	Power Meter

#### SALES CENTERS:

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