

# Quick Fact Sheet

## Spectrum Master™ MS2712E/MS2713E



**MS2712E**  
9 kHz to 4 GHz

**MS2713E**  
9 kHz to 6 GHz

### Compact Handheld Spectrum Analyzer

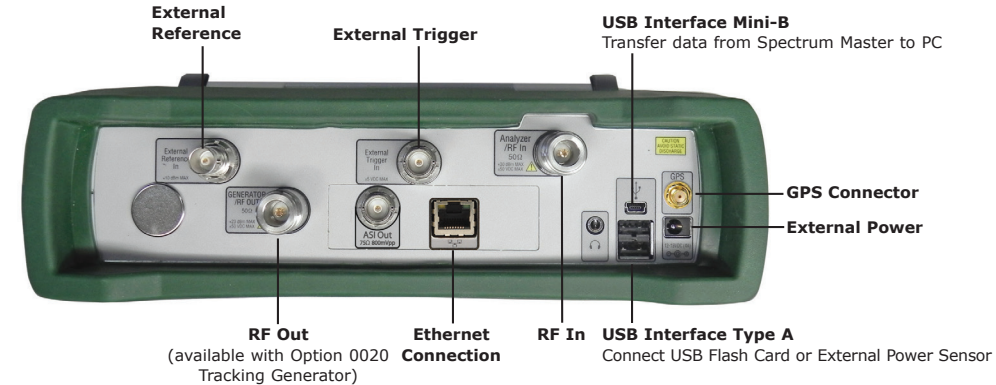
#### Best Performance in its Class

Anritsu's MS2712E and MS2713E Spectrum Master™ spectrum analyzers are designed to handle the most punishing field conditions and allow you to monitor, locate, identify, and analyze a broad range of cellular, land mobile radio, Wi-Fi, and broadcast signals. With a rich array of configuration options, these multifunctional handhelds eliminate the need for you to learn and carry multiple instruments when locating and identifying signals over wide frequency ranges. There is no other spectrum analyzer in this class that can deliver this level of performance.

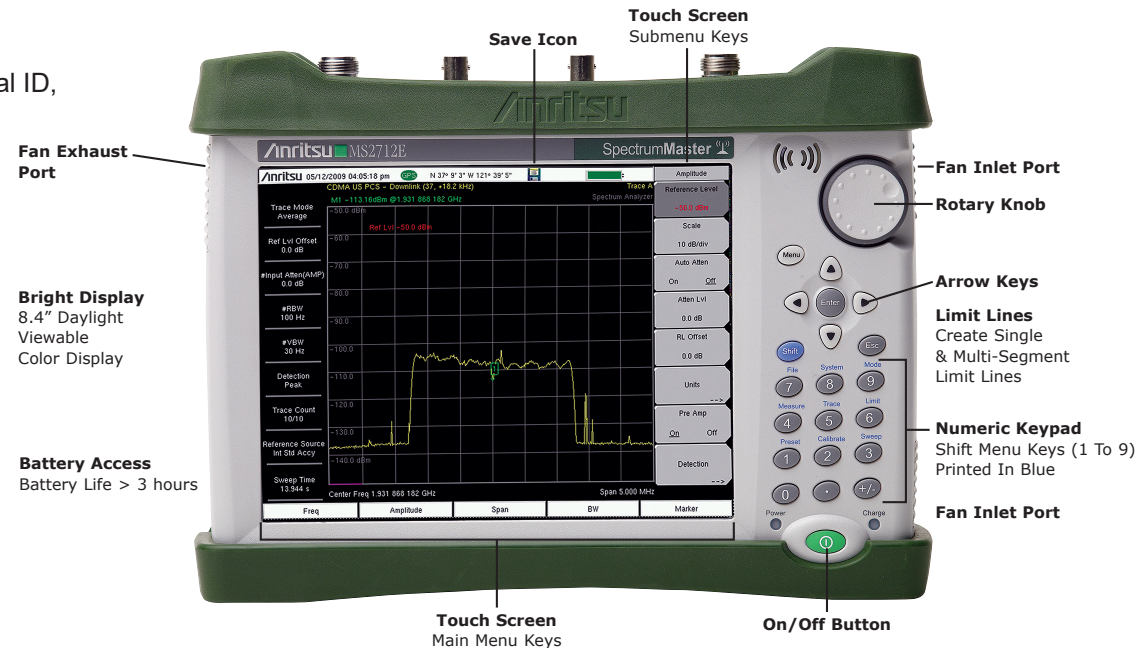
### Spectrum Analyzer Key Features

- > Measurements: Occupied Bandwidth, Channel Power, ACPR, C/I, Spectral Emission Mask, Field Strength
- > \*Interference Analyzer: Spectrogram, Signal Strength, RSSI, Signal ID, Interference Mapping
- > \*Tracking Generator, also functions as CW source
- > \*Coverage Mapping: Outdoors or Indoors
- > \*3GPP Signal Analyzers GSM/EDGE, W-CDMA/HSDPA, TD-SCDMA/HSDPA, LTE (FDD and/or TDD), NB-IoT
- > \*3GPP2 Signal Analyzers cdmaONE/CDMA2000 1X, CDMA2000 1xEV-DO
- > \*IEEE 802.16 Signal Analyzers Fixed WiMAX, Mobile WiMAX
- > \*ISDB-T Signal Analyzer
- > Dynamic Range: > 102 dB in 1 Hz RBW
- > DANL: -162 dBm in 1 Hz RBW
- > Phase Noise: -100 dBc/Hz max @ 10 kHz offset at 1 GHz
- > Frequency Accuracy: < ± 50 ppb with GPS On
- > Resolution Bandwidth (RBW) 1 Hz to 3 MHz in 1-3 sequences
- > Standard Ethernet Connectivity (Revision 3 instruments only)

\*Optional



All connectors are conveniently located on the top panel, leaving the sides clear for handheld use.



**File Management**  
Saves & Recall > 2000 Traces & Setups



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## Spectrum Master™ MS2712E/MS2713E



### Key Specifications

Spectrum Analyzer	
Frequency	9 kHz to 4 GHz (MS2712E), 9 kHz to 6 GHz (MS2713E) (usable to 0 Hz)
DANL	-162 dBm in 1 Hz RBW
Phase Noise	-100 dBc/Hz max @ 10 kHz offset at 1 GHz
Dynamic Range	> 102 dB in 1 Hz RBW
General	
Internal Trace	>2,000 traces, >2,000 Setups
External Trace	Limited by size of USB Flash drive
Connectivity	Ethernet, USB cable, USB Memory Stick, and RJ45 connector for Ethernet 10-Base T
Display	Resistive Touchscreen, 8.4" daylight viewable color LCD, Resolution 800 x 600
Temperature	Operating Temperature -10 °C to 55 °C
Battery	Li-Ion, 3.0 hours, typical
Dimensions	273 mm x 199 mm x 91 mm (10.7 in x 7.8 in x 3.6 in)
Weight	3.45 kg, (7.6 lbs)

### Standard Accessories

Part Number	Description
3-68736	Soft Carrying Case
633-44	Rechargeable Li-Ion Battery
40-168-R	AC-DC Adapter
806-141-R	Automotive Cigarette Lighter 12 VDC Adapter
3-2000-1498	USB A/5-pin mini-B Cable, 10 feet/305 cm
2000-1371-R	Ethernet Cable 7 ft/213 cm
11410-00511	Spectrum Master MS2712E / MS2713E Technical Data Sheet
	Three Year Warranty (One year for battery)
	Certificate of Calibration and Conformance

### Optional Accessories

#### Portable Antennas



#### Test Port Cables, Armored



### Options

Option	Description
MS2712E-010 MS2713E-010	Bias Tee
MS2712E-0009 MS2713E-0009	20 MHz Bandwidth Demod
MS2712E-0031 MS2713E-0031	GPS Receiver (Reqs. GPS Antenna)
MS2712E-0019 MS2713E-0019	High-Accuracy Power Meter (Reqs. External Power Sensor)
MS2712E-0029 MS2713E-0029	Power Meter
MS2712E-0025 MS2713E-0025	Interference Analyzer (Option 31 Recommended)
MS2712E-0027 MS2713E-0027	Channel Scanner
MS2712E-0431 MS2713E-0431	Coverage Mapping (Reqs. Option 31)
MS2712E-0444 MS2713E-0444	EMF Measurements (Reqs. Anritsu Isotropic Antenna)
MS2712E-0090 MS2713E-0090	Gated Sweep
MS2712E-0020 MS2713E-0020	Tracking Generator
MS2712E-0509 MS2713E-0509	AM/FM/PM Analyzer
MS2712E-0752 MS2713E-0752	CPRI LTE RF Measurements (Reqs. Option 759)
MS2712E-0753 MS2713E-0753	OBSAI LTE RF Measurements (Reqs. Option 759)
MS2712E-0759 MS2713E-0759	RF over Fiber Hardware (Reqs. Option 752 or 753, cannot be ordered with Options 57 or 79)
MS2712E-0880 MS2713E-0880	GSM/GPRS/EDGE Measurements (Reqs. Option 9)
MS2712E-0881 MS2713E-0881	W-CDMA/HSPA+ Measurements (Reqs. Option 9; Option 31 Recommended)
MS2712E-0882 MS2713E-0882	TD-SCDMA/HSPA+ Measurements (Reqs. Option 9; Reqs. Option 31 for Full Functionality)
MS2712E-0883 MS2713E-0883	LTE/LTE-A FDD/TDD Measurements (Reqs. Option 9; Reqs. Option 31 for Full Functionality)
MS2712E-0886 MS2713E-0886	LTE 256 QAM Demodulation (Reqs. Option 883)
MS2712E-0884 MS2713E-0884	CDMA/EV-DO Measurements (Requires Option 9; Reqs. Option 31 for Full Functionality)
MS2712E-0885 MS2713E-0885	WiMAX Fixed/Mobile Measurements (Reqs. Option 9; Option 31 for Full Functionality)
MS2712E-0887 MS2713E-0887	NB-IoT Analyzer (Reqs. Option 9)
MS2712E-0030 MS2713E-0030	ISDB-T Digital Video Measurements (Reqs. Option 9)
MS2712E-0032 MS2713E-0032	ISDB-T SFN Measurements (Reqs. Option 9)
MS2712E-0079 MS2713E-0079	ISDB-T BER Measurements (Reqs. Options 9 and 30, cannot be ordered with Option 759)
MS2712E-0064 MS2713E-0064	DVB-T/H Digital Video Measurements (Reqs. Option 9)
MS2712E-0078 MS2713E-0078	DVB-T/H SFN Measurements (Reqs. Option 9)
MS2712E-0057 MS2713E-0057	DVB-T/H BER Measurements (Reqs. Option 64, cannot be ordered with Option 759)
MS2712E-0098 MS2713E-0098	Standard Calibration (ANSI Z540-1-1994)
MS2712E-0099 MS2713E-0099	Premium Calibration (ABSI Z540-1-1994) plus printed test data

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