

Quick Fact Sheet

Field Master™ MS2070A

Handheld RF Spectrum Analyzer

9 kHz to 3 GHz

Anritsu
Advancing beyond

Anritsu's Field Master MS2070A 3 GHz RF spectrum analyzer covers the common HF, VHF, and UHF frequency bands. Providing the performance you expect from Anritsu with the practicality required for use in the field. Developed with 20 years' experience of designing RF test instruments for field technicians, the Field Master MS2070A integrates all the essential features of a modern spectrum analyzer with traceable and warranted specifications.

Applications include: base station and transmitter testing in the field, through direct connection or over-the-air (OTA), finding sources of interference (including from spurious, harmonics, PIM, and industrial machinery), rooftop PIM hunting, EMI pre-compliance testing, and 75 ohm cable TV testing. Field Master MS2070A is also ideal for general purpose spectrum analysis in the lab environment where its built-in kick stand and small footprint make it the perfect complement of a fully featured bench top instruments which can be cumbersome to share and move.

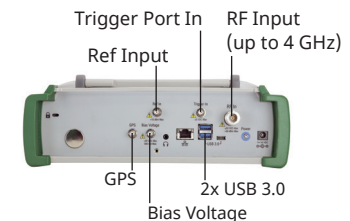
Smart measurements provide built-in routines to simplify the most common transmitter measurements including; channel power, adjacent channel power, and occupied bandwidth.

Results and instruments settings are clearly displayed on a large 10-inch high resolution, multi-touch screen. The soft case provides an IP52 rating to protect from dust and rain while the screen exceeds the IK08 specification protecting against the knocks and drops inevitably experienced in the field. 5 Watts maximum input power prevents accidental power overload damage which is the most common cause of field failures.

Field Master MS2070A delivers a compelling combination of performance with portability to make it the perfect choice for both field and bench applications.

Field Master MS2070A Highlights

Spectrum Analysis from 9 kHz to 3 GHz	Full frequency coverage of HF, VHF, and UHF frequency bands
Spectrogram	Capture and record intermittent and drifting signals
Spectrum Record and Playback	Record traces and playback at slow speed to track all spectrum activity
AM/FM Audio Demodulation	To identify signals of interest
Smart Measurements	Includes channel power, occupied bandwidth, adjacent channel power, spectral emissions, and field strength measurements
Interference Hunting	Directional antenna and eCompass handle
USB Power Sensor Support	Precision power measurements of transmitters
Traces and Markers	Up to 6 traces and 12 markers
Zero Span	Pulse measurements
Standard Detectors	Peak, RMS/Avg, Negative, Sample, Normal
Quasi-Peak Detector	CISPR compliant interference measurements
Battery Life	3.5 hours with standard battery, typically >6 hours with accessory power pack
10-Inch Multi-Touch Display	Provides quick and easy configuration and results presentation
GNSS (Option)	GPS, Galileo, GLONASS, BeiDou
Connectivity	Ethernet, USBTMC (Wi-Fi Option)



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Included Instruments

Spectrum Analyzer
Spectrogram
Interference Analyzer
True Power Meter
AM/FM Demodulator
Coverage Mapping
Mobile Interference Hunting (with MX280007A Software)

Key Specifications

Performance	
Sweep Speed	32 GHz/s
Phase Noise	-97 dBc/Hz Typical @ 100 kHz Offset
DANL	Pre Amp Off -150 dBm Typical Pre Amp On -167 dBm Typical (with preamp option)
Maximum Input Signal	+30 dBm
Dynamic Range	105 dB Typical
Input Damage Level	+37 dBm (5 Watts)
Amplitude Accuracy	±1 dB
Resolution Bandwidth in Sweep Mode	1 Hz to 3 MHz
Resolution Bandwidth in Zero Span	1 Hz to 5 MHz
Frequency Accuracy	Aging: ±1.0 x 10 ⁻⁶ per Year Accuracy: ±2.8 x 10 ⁻⁷ (-10 °C ± 55°C) Plus Aging

Key Features

Feature	Specifications
Display	10.1 in, 1280 x 800 Color Capacitive Touchscreen
Traces	6 (with Trace Record and Play Back)
Detectors	Avg/RMS, Peak, Negative, Sample, Normal
Smart Measurements	Channel Power, OBW, ACP, AJCP, SEM
Markers	12 Markers Assignable to Any Trace
Limit Lines	Complex Limit Lines with Pass/Fail
Connectivity	Ethernet, USBTMC
Wi-Fi Connectivity	Option 802.11b/a/g/n/ac
GNSS	Option GPS, GLONASS, Galileo, BeiDou
Audio Demod	AM/FM
Battery Life	3 Hours with Internal, 5 Hours with Accessory Power Pack
Size	290 mm x 212 mm x 96 mm, (11.4 in x 8.3 in x 3.7 in)
Weight	3.8 kg (8.39 lb)

Instrument Options

Part Number	Description
MS2070A	Field Master Spectrum Analyzer
Options	
MS2070A-0703	9 kHz to 3 GHz Spectrum Analyzer (required)
MS2070A-0005	Wi-Fi
MS2070A-0008	Preamplifier
MS2070A-0019*	High Accuracy Power Meter (requires compatible USB power sensor, sold separately)
MS3070A-0024*	Interference Finder (requires directional antenna, sold separately)
MS2070A-0031*	GNSS Receiver (requires GPS antenna, sold separately)
MS2090A-0431*	Coverage Mapping (requires GPS option MS2070A-0031)
MS2070A-0703-0097	Accredited Calibration to ISO17025 and ANSI/NCSL Z540-1
MS2070A-0703-0098	Standard Calibration to ISO17025 and ANSI/NCSL Z540-1
MS2070A-0704-0099	Premium Calibration to ISO17025 and ANSI/NCSL Z540-1 plus test data
*Time-Limited Options	Options marked with an asterisk are offered as a 90-day time limited option by ordering as a -9xxx series option. For example, MS2070A-9431 is the 90-day time limited option for Coverage Mapping Measurements. The option start time begins when the user first activates the option.
Software	MX280007A Mobile InterferenceHunter™ MS2070A PC Remote User Interface

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