Spectrum Master[™] MS2720T 9 kHz to 9 GHz, 13 GHz, 20 GHz, 32 GHz, 43 GHz



Designed for Field Use

With the 7th Spectrum Master generation, Anritsu has not been standing still in the development of instruments designed to meet user needs, whether as a handy bench instrument or as a high performance field tool that can make measurements wherever they need to be made. User convenience features, such as a touch screen, serve to make the 7th generation Spectrum Master even easier to use. A brighter display with several user-selectable display choices including high contrast, monochrome, and night-vision red makes the Spectrum Master outstanding in the field. Burst detect is included to simplify finding pulsed interfering signals.

Spectrum and Interference Analyzer Highlights

- > Touch Screen User Interface
- > Tracking Generators to 20 GHz
- Measure: Occupied Bandwidth, Channel Power, ACPR, C/I, Spurious Emissions
- > Dynamic Range: > 106 dB in 1 Hz RBW
- > DANL: -160 dBm in 1 Hz RBW @ 1 GHz
- > Phase Noise: -108 dBc/Hz typical @ 10 kHz offset at 1 GHz
- > Sweep Modes: Fast, Performance, No FFT, Burst Detect
- > Traces: Normal, Max Hold, Min Hold, Average, # of Averages
- > Burst Detect: detects and displays bursty signals 200 μs wide or wider
- > Frequency Accuracy: ±25 ppb, GPS On; ±1 ppm/10 years, GPS Off
- > Interference Analyzer: Spectrogram, Signal Strength, RSSI, Mapping
- > 1 Hz to 10 MHz Resolution Bandwidth (RBW) and Video Bandwidth (VBW)
- > Options for 3G and 4G cellular measurements including LTE, TD-LTE, GSM, CDMA, WiMAX, WCDMA, and TD-SCDMA
- > Detectors: Peak, Negative, Sample, Quasi-peak, and true RMS
- > Markers: 6, each with a Delta Marker, or 1 Reference with 6 Deltas
- > Limit Lines: up to 40 segments with one-button envelope creation



Capabilities and Functional Highlights

- > LTE, TD-LTE
- > GSM/EDGE
- > W-CDMA/HSPA+
- > TD-SCDMA/HSPA+
- > CDMA, EV-DO
- > Fixed, Mobile WiMAX
- > AM/FM/SSB Demodulator
- > Zero-span IF Output
- > EMF Measurements
- > Gated Sweep

- > GPS tagging of stored traces
- > Internal Preamplifier standard
- > High Accuracy Power Meter
- > 4, 6, 8, 18, 26 GHz USB Sensors
- > Channel Scanner
- > 8.4 inch Display
- > < 5 minute warm-up time
- > 3 hour battery operation time
- > Ethernet/USB Data Transfer
- > Web Remote Control



Quick Fact Sheet

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Key Specifications

Spectrum Analyzer					
Option	Option 709	Option 713	Option 720	Option 732	Option 743
Frequency Range	9 kHz to 9 GHz	9 kHz to 13 GHz	9 kHz to 20 GHz	9 kHz to 32 GHz	9 kHz to 43 GHz
Frequency Span	10 Hz to 9 GHz plus zero span	10 Hz to 13 GHz plus zero span	10 Hz to 20 GHz plus zero span	10 Hz to 32 GHz plus zero span	10 Hz to 43 GHz plus zero span
Phase Noise	-108 dBc/Hz at 10 kHz offset at 1 G (-112 dBc/Hz typ.)	kHz offset at 1 GHz —102 dBc/Hz at 10 kHz offset at 1 GHz (–106 dBc/Hz typ.)		Hz typ.)	
Displayed Avera	age Noise Level				
DANL Preamplifier Off	-146 dBm at 3 GHz	–145 dBm at 3 GHz			
DANL Preamplifier On	-160 dBm at 3 GHz	–161 dBm at 3 GHz			
Dynamic Range	> 106 dB				
Tracking Generator	100 kHz to 20 GHz, -40 dBm to 0 dBm				
General					
Internal Trace/Setup Memory >40,		,000 traces			
External Trace/Setup Memory size		e of USB Flash drive			
Connections Conr		nnect to PC using USB, LAN, or Direct Ethernet connection			
Display 8.4 in		inch with 800 x 600 resolution			
Operating Temperature -10		0 °C to 55 °C			
Dimensions 315 i		mm x 211 mm x 77 mm, (12.4 in x 8.3 in x 3.0 in)			
Weight 3.7 k		rg, (8.5 lbs)			
Warranty Star		ndard three-year warranty, One-year warranty on battery			

Standard Accessories

Part Number	Description		
10920-00060	Handheld Instruments Documentation Disc		
2300-577	Anritsu Software Tool Box for Handheld RF Instruments Disc		
2000-1685-R	Soft Carrying Case		
2000-1691-R	Stylus with Coiled Tether		
633-75	High Capacity Li-lon Battery		
40-187-R	AC/DC Power Supply		
806-141-R	Automotive Cigarette Lighter 12 Volt DC Adapter		
2000-1371-R	Ethernet Cable, 7 feet/213 cm		
3-2000-1498	USB A-mini B Cable, 10 feet/305 cm		
2000-1797-R	797-R Touchscreen Protective Film, 8.4 in (one factory-installed, one spare)		
	Certificate of Calibration and Conformance		

Options					
	Frequency Options				
MS2720T-0709	Frequency Range 9 kHz to 9 GHz				
MS2720T-0713	Frequency Range 9 kHz to 13 GHz				
MS2720T-0720	Frequency Range 9 kHz to 20 GHz				
MS2720T-0732	Frequency Range 9 kHz to 32 GHz				
MS2720T-0743	Frequency Range 9 kHz to 43 GHz				
	Tracking Generator Options				
MS2720T-0809	9 GHz Tracking Generator (Requires option 709)				
MS2720T-0813	13 GHz Tracking Generator (Requires option 713)				
MS2720T-0820	20 GHz Tracking Generator(Requires option 720)				
	Spectrum Analyzer Options				
MS2720T-0025	Interference Analyzer (Option 31 is recommended)				
MS2720T-0027	Channel Scanner				
MS2720T-0431	Coverage Mapping (Requires Option 31 for full functionality)				
MS2720T-0509	AM/FM/PM Measurements (Option 431 required for full functionality)				
MS2720T-0024	I/Q Waveform Capture (Requires Option 9)				
MS2720T-0089	Zero Span IF Output				
MS2720T-0031	GPS Receiver (requires GPS Antenna, sold separately)				
MS2720T-0090	Gated Sweep				
MS2720T-0444	EMF Measurements (Requires Anritsu Isotropic Antenna)				
	Power Meter Option				
MS2720T-0019	High Accuracy Power Meter (Requires USB Power Sensor, sold separately)				
	Wireless Measurement Options				
MS2720T-0009	Demodulation Hardware				
MS2720T-0880	GSM/GPRS/EDGE Measurements (requires Option 9)				
MS2720T-0881	W-CDMA/HSPA+ Measurements (Requires Option 9, Option 31 recommended)				
MS2720T-0882	TD-SCDMA/HSPA+ Measurements (Requires Option 9, Option 31 required for full functionality)				
MS2720T-0883	LTE FDD/TDD Measurements (Requires Option 9, Option 31 required for full functionality)				
MS2720T-0884	CDMA/EV-DO Measurements (Requires Option 9, Option 31 required for full functionality)				
MS2720T-0885	WiMAX Fixed/Mobile Measurements (Requires Option 9, Option 31 required for full functionality)				
	General Options				

Pricing | Ordering | Training | Support

MS2720T-0007 | Secure Data Operation

MS2720T-0098 Standard Calibration (ANSI Z540-1-1994)

MS2720T-0099 | Premium Calibration (ANSI Z540-1-1994 plus test data)

www.anritsu.com or 1-800-267-4878