



# Spectrum Master™

## MS2760A Ultraportable mmWave Spectrum Analyzer

9 kHz up to 110 GHz



### The Future of performance and affordability

The mmWave market is the open frontier for a wireless communications world that is getting more and more crowded. As a result, many new technologies are being developed to take advantage of the bandwidth availability at higher frequencies. This imposes several new challenges on developers, however, including:

- Higher propagation losses in mmWave frequencies
- A general lack of test equipment above 50 GHz

By utilizing our patented non-linear transmission line (NLTL) technology, our new line of Ultraportable Spectrum Analyzers meets the need for test at higher frequencies while maintaining performance and affordability.

### Ultraportable Spectrum Analyzer

The MS2760A is truly pocket sized, but big on performance with industry leading dynamic range, sweep speed, and amplitude accuracy. Its ultraportable size enables direct connect to almost any DUT, eliminating the need for lossy, expensive cables or antennas.

The MS2760A is the world's first handheld millimeter-wave spectrum analyzer to provide continuous coverage from 9 kHz up to 110 GHz. It is ideal for the growing 5G network development market, as well as other fast-growing mmWave applications, like 802.11ad / WiGig, E-band microwave wireless communications, satellite communications, and automotive radar.

### Key Features

- Six models: 32, 44, 50, 70, 90, and 110 GHz
- Measure: Channel Power, Adjacent Channel Power, Occupied Bandwidth
- Dynamic Range: >103 dB from 6.15 GHz up to 110 GHz
- DANL: -130 dBm up to 110 GHz
- Resolution Bandwidth (RBW): 10 Hz to 3 MHz
- Phase Noise: -116 dBc/Hz @ 1GHz
- Up to Six Traces, Three Trace Detectors, 12 Markers
- I/O: External 10 MHz Frequency Reference



The Ultraportable Spectrum Master connected to and powered by a tablet via USB 3.0

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## MS2760A Ultraportable mmWave Spectrum Analyzer

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### World's First Ultraportable mmWave Spectrum Analyzer up to 110 GHz

In the lab, on the manufacturing floor, or out in the field, no other instrument can match the price, performance and size of the MS2760A. It provides benchtop level spectrum analyzer performance in the palm of your hand. Anyone making basic spectrum measurements can benefit from the size and affordability, especially those making measurements for mmWave applications like 5G, 802.11ad, satellite communications, E-band microwave radios, or automotive radar.

#### Make measurements right where it's needed



*The Ultraportable Spectrum Master is also equipped with mounting holes for direct connect to wafer probes.*

#### R & D LAB

Take measurements right at the device under test (DUT) to eliminate system loss due to cables or over-the-air transmissions at high frequencies.

#### Manufacturing

Easy integration into various manufacturing systems for both large and small products. The size of the unit makes it easy to test larger products such as aerospace products and satellites.

#### Field

Small enough to fit into a technician's pocket, plus it is laptop/tablet powered so technicians can use the tablet to power the MS2760A and complete any other computer tasks in the field, thus minimizing equipment.

