

CHAMBER AMS-8050 ANTENNA MEASUREMENT SYSTEM



MODEL AMS-8050

- **Efficient Over-the-Air (OTA) Antenna Pattern Measurement**
- **Full WiFi 7 test solution available (Note: requires WiFi 6E measurement package)**
- **Ideal as a Shared Resource for Pre-compliance Testing**
- **Compact, Anechoic Absorber-lined RF Enclosure**

ETS-Lindgren's Model AMS-8050 Antenna Measurement System utilizes a freestanding reach-in cart configuration that is on casters. Its split-shell design allows a roll-in-place installation through standard doorways and hallways, as well as portability for sharing among labs and work areas. This OTA test system may be used for rapid prototyping, design validation, pre-certification testing, performance measurement, and production sampling.

If you're using an external test lab for certification testing, this system can help you go fully prepared. OTA performance measurements made in the AMS-8050 have shown good correlation to measurements made in larger, fully compliant chambers.

This model provides an ideal solution when space is a limitation. It can be used as a self-contained test lab for making fast OTA performance measurements of small wireless devices and mobile handsets.

Product Features:

Pre-Compliance Testing

If you're using an external test house for certification testing, our system can help you go fully prepared. OTA performance measurements made in the AMS-8050 have shown good correlation to measurements made in larger, fully compliant chambers.

Compact Anechoic RF Enclosure

The AMS-8050 is an ideal solution when space is a limitation. It can be used as a self-contained test lab for making fast OTA performance measurements of small wireless devices and mobile handsets.

Self-Contained, Moveable System

The AMS-8050 is incorporated into a moveable chassis: the entire system may be transported between different test stations. Integrated equipment bays allow components required for testing to remain with the system. The ability to transport the system and store all components within the cart makes it an ideal solution for use by multiple research and development groups.

Easy Installation

The AMS-8050 System is easily installed into new or existing construction. Additionally, the moveable cart assembly allows for the system to be easily relocated within a testing facility.

EMQuest Data Acquisition and Analysis Software

The AMS-8050 System includes our versatile EMQ-100 Antenna Pattern Measurement Software. The software makes fully-automated pattern and frequency response measurements for both active and passive antennas, for either vector or scalar qualities, in either transmit or receive mode. Post-processing capabilities include calculations for directivity, gain, radiation efficiency, total radiated power, and total isotropic sensitivity. EMQ-100 also calculates industry specific quantities such as Near-Horizon Partial Isotropic Sensitivity required by the CTIA Test Plan for Mobile Station Over-the-Air Performance. Advanced graphing capabilities allow data to be shown in a variety of 2-D and 3-D formats, exported to Microsoft Excel, PDF files, or saved in RTF format.

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Technical Specifications

Electrical

Frequency Range	700 MHz to 10 GHz
Test Methodology	Direct Far-Field (DFF)
Compliance Standard and Technology	Pre-Compliance
Rotation Axis	Combined-Axis

Physical

Path Length	1.5 m (4.9 ft)
Overall Dimensions	2.6 m x 1.5 m x 1.9 m (8.53 ft x 5.0 ft x 6.33 ft)
Maximum Load Capacity	6.8 kg (15 lb)

Standard Configuration

- Self-contained, Built on a Moveable Cart System
- 1.5m Path Length
- No Special Installation or Construction Required
- EMQuest Data Acquisition and Analysis Software