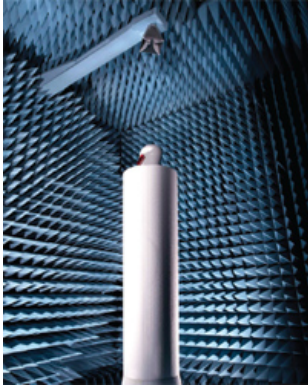


## AMS-8800 SERIES ANTENNA MEASUREMENT SYSTEM

ETS-Lindgren's AMS-8800 Series Antenna Measurement System is a theta arm based antenna measurement test system.



ETS-Lindgren's AMS-8800 Series Antenna Measurement System is a theta arm based antenna measurement test system. This system is ideally suited for automated measurement of antenna performance of wireless devices and devices with embedded wireless functions. The AMS-8800 includes a distributed axis positioning system consisting of an azimuth rotator to rotate the AUT about the phi axis and a separate theta arm positioner to elevate the measurement antenna around the AUT.

The scanning assembly uses a dual polarized quad-ridged horn antenna mounted on the theta scanning arm. The arm moves in an arc over a low dielectric foam column that supports the AUT. The entire scanning mechanism is housed inside of an anechoic lined chamber that provides RF isolation and a near-freespace environment. ETS-Lindgren's EMQuest™ EMQ-100 Antenna Measurement Software provides test automation, post processing, and tabular/graphical data output.

**5G FR1 Over-The-Air (OTA) test solutions are now available!** ETS-Lindgren offers a turnkey package which will enable support for 5G NR SISO non-standalone [NSA] and/or standalone [SA] testing in the FR1 band.

### Key Features

- Efficient Over-The-Air (OTA) Testing for Wireless Devices
- Theta Arm Spherical Scanning System
- Frequency Range 690 MHz to 10 GHz
- Turnkey Systems Available for SISO Testing
- Easy Calibration by User
- Optional Chair Support
- Dual Polarized Measurement Antenna

### Features

#### Theta Arm

The theta rotational arm scanning system provides a quick, convenient, and accurate test method for wireless devices. It is a good choice for larger, heavier AUTs, especially those which may be gravity dependent.

#### Measurement Antenna

The dual polarized quad-ridged antenna in the theta arm provides broadband measurement in both polarizations. The standard frequency range is 690 MHz to 10 GHz. Options are available to increase the frequency range.

#### Device Mounts

A table-top mount is included for testing portable computing devices, desktop computing devices, small appliances, and customer premise equipment.

#### Compliance Testing

The AMS-8800 can easily be configured for upgrade to conduct CTIA Over-The-Air (OTA) testing and other wireless testing with optional test expansion packages.

## Specifications

### Electrical Specifications

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**Frequency Range:** 690 MHz to 10 GHz

**Voltage (Hz):** 50/60 Hz

### Physical Specifications

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Model	Overall Dimension	Shielded Door	Shield Material
AMS-8813	4.2 m x 4.2 m x 4.2 m (13.67 ft x 13.67 ft x 13.67 ft)	1.2m x 2.1m (3.92 ft x 6.83 ft)	Aluminum
AMS-8815	5.1 m x 5.1 m x 5.1 m (16.67 ft x 16.67 ft x 16.67 ft)	1.2m x 2.1m (3.92 ft x 6.83 ft)	Aluminum

### Additional Specifications

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- Modular RF-shielded Enclosure
- Single Leaf RF shielded Personnel Door
- Waveguide Air Vents on Chamber Ceiling
- Fiber Optic LED Light System
- Shield Test per MIL-STD-285
- Fully Anechoic Absorber Lining
- Power Line Filters
- Theta Arm Distributed Axis Positioner
- Low Loss RF Cables from MAPS to the Feed-through Panel at the Shielding
- Workstation Computer with Intel® Quad-core Processor
- EMQuest EMQ-100 Antenna Measurement Software
- ETS-Lindgren 3102 Conical Log Spiral Communications Antenna
- 3126 Precision Sleeve Dipoles and 3127 Resonant Loop Antenna Mount Kits
- Ferrite Cables for Range Calibration and Ripple Tests
- Turnkey Software and Hardware Integration and System Training
- Quiet-Zone Ripple Test According to CTIA Over-The-Air Test Plan at Frequencies 836.5 MHz and 1880 MHz
- EMCenter Modular RF Platform for Positioner Controller and Switching
- Antenna Mounting Fixture for Range Calibration
- Free Space and Head & Hand Mount Kit
- Fully Integrated 19" Rack System

### Product Options

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- 2G/3G Cellular SISO Test Package
- LTE-SISO Test Package
- LTE-A Carrier Aggregation (2DL/1UL) SISO Test Package

- LTE-A Carrier Aggregation (3DL/1UL) SISO Test Package
  - A-GNSS (A-GPS for 2G/3G) Test Package
  - A-GNSS (A-GPS for 4G) Test Package
  - A-GNSS (A-GLONASS for 4G) Test Package
  - Bluetooth Test Package
  - Bluetooth Low Energy Test Package
  - TD-SCDMA Test Package
  - RSE Test Package
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**4TECT**

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