

Test Systems
**MIMO Single Cluster
Environment Simulator**
Model AMS-8055

FEATURES:

- Efficient MIMO Over-the-Air (OTA) Performance Measurement
- SISO OTA Performance Measurements
- 2D/3D Antenna Pattern Measurements
- Ideal for Pre-Compliance Testing
- Compact, Anechoic RF-Enclosure
- Self-Contained, Moveable Cart System
- No Special Installation/Construction
- EMQuest[™] Data Acquisition and Analysis Software Included



Model AMS-8055 Test System

ETS-LINDGREN'S AMS-8055 MIMO SINGLE CLUSTER ENVIRONMENT SIMULATOR is a compact, fully anechoic RF enclosure for making single cluster MIMO OTA performance measurements. The AMS-8055 is freestanding and built on a moveable cart configuration; it fits into parent buildings without special installation or construction.

This MIMO OTA test system for wireless device measurement may be used for rapid prototyping, design validation, pre-certification testing, performance measurement, and production sampling.

FEATURES

Pre-Compliance Testing

If you're using an external test house for certification testing, our system can help you go fully prepared.

OTA MIMO performance measurements made in the AMS-8055 have shown good correlation to measurements made in larger, fully compliant chambers.

Compact Anechoic RF Enclosure

The AMS-8055 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 for both MIMO and SISO OTA.

Self-Contained Moveable System

The AMS-8055 is incorporated into a moveable chassis: the entire system can be transported between different test stations. The ability to transport the system makes it an ideal solution for use by multiple research and development groups.

Easy Installation

The AMS-8055 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-8055 System includes our versatile EMQ-100 Antenna Pattern Measurement Software. The software makes fully-automated MIMO OTA measurements for. Post-processing capabilities include calculations average throughput, throughput vs. angle, throughput sensitivity and many other MIMO and SISO related parameters. Advanced graphing capabilities allow data to be shown in a variety of 2D and 3D formats, exported to Microsoft Excel[™], PDF files or saved in RTF format.

Supported Measurements

- Single Cluster MIMO Measurements
- Total Radiated Power (TRP)
- Equivalent Isotropically Radiated Power (EIRP)
- Total Isotropic Sensitivity (TIS)
- Near Horizontal Partial Radiated Power (NHPRP)
- Near Horizontal Partial Isotropic Sensitivity (NHPIS)
- Pre-Compliance CTIA Testing

STANDARD CONFIGURATION

- Anechoic Lined Enclosure with:
 - DUT Positioner
 - Measurement Antennas
 - Accessory Trays
- EMQuest Data Acquisition and Analysis Software

OPTIONS

- VNA (For Chamber Calibration)
- Spectrum Analyzer
- EMCenter™ Switch Matrix Controller
- Communication Testers for Additional Protocols LTE, WCDMA, TD-SCDMA, WiFi
- Channel Emulator
- SAM Phantom Head, Hands

Electrical Specifications

MODEL	ELECTRICAL (VAC)	VOLTAGE (Hz)	VOLTAGE (AMPS)	PLUG TYPE
AMS-8055	208 to 230 VAC	50/60 Hz	15 A	NEMA OR Schuko (Select One)

Physical Specifications

	LENGTH	WIDTH	HEIGHT	WEIGHT (NOMINAL)
Nominal Outside Dimensions	2.6 m 102.4 in	2.6 m 102.4 in	1.9 m 74.8 in	1000.0 kg 2204.6 lbs

Technical Specifications

MODEL	ANTENNA FREQUENCY RANGE	PATH LENGTH	POSITIONERS	SHIELD PERFORMANCE
AMS-8055	700 MHz to 6 GHz	1.5 m Nominal	0.1° Resolution	> 100 dB