

# CHAMBER AMS-8100 ANTENNA MEASUREMENT SYSTEM



**ETS-Lindgren's AMS-8100 Antenna Measurement Test Systems** are designed for testing small-antenna products over the frequency range from 690 MHz to 10 GHz. This system provides active and passive testing of antennas, including those used in various devices such as Wi-Fi interfaces and mobile handsets.

AMS-8100 systems include a compact, rectangular chamber, fully lined with anechoic absorber and designed to provide far-field measurements at a nominal separation distance of 2.74 m (9 ft). The AMS-8100 can be placed in common office space thanks to its approximately 4.3 x 2.6 meter footprint and less than 3 meter (9 ft.) height clearance requirement. For 2D passive testing, a Model 2006 Single-Axis Positioning System is standard for the AMS-8100. An optional Multi-Axis Positioning System (MAPS) can be ordered for DUT rotation around two orthogonal axes for full spherical coverage.

AMS-8100 systems also include an ETS-Lindgren 3164-08 open-boundary quad-ridged horn antenna and associated RF cabling. Extension to higher frequencies is possible by adding optional antennas. Extension of the lower frequency range is possible using other ETS-Lindgren antenna measurement systems and configurations.

## MODEL AMS-8100

- Efficient Over-The-Air (OTA) Measurement for Wireless Devices
- Passive Antenna Measurements
- Full WiFi 7 test solution available (Note: requires WiFi 6E measurement package)
- Modular High Performance Shielded System

## Technical Specifications

Electrical	
Frequency Range	690 MHz to 10 GHz
Test Methodology	Direct Far-Field (DFF)
Compliance Standard and Technology	CTIA
Rotation Axis	Combined-Axis
Physical	
Path Length	2.74 m (9.0 ft)
Overall Dimensions	4.3 m x 2.6 m x 2.6 m (14.1 ft x 8.53 ft x 8.53 ft)
Maximum Load Capacity	11.3 kg (24.91 lb)

## Standard Configuration

- Multi-Axis Positioning System (MAPS) for High Resolution 3D Pattern Testing
- Easy Calibration by User
- EMQuest Data Acquisition and Analysis Software