# CHAMBERS AMS-5702 MAPS 5G ANTENNA MEASUREMENT SYSTEM


**AMS-5702 MAPS 5G ANTENNA SERIES**

- **Dual Polarized Measurement Antenna**
- **Variable range length from 50 cm (29.5 in) to a 150cm (59.1 in)**
- **Laser Alignment**

**ETS-Lindgren's AMS-5702 5G Antenna Measurement System** is a combined-axis far-field measurement test system that provides 3D radiated performance measurements of 5G mmWave wireless devices. This model offers precise device positioning with hundredths of a degree resolution and reproducibility. The AMS-5702 excels in 5G FR2 "white-box" applications where the transmitting antenna characteristics and location are known and test data is required quickly. The RF shielded anechoic enclosure is mobile (on wheels) for sharing among design groups or lab areas. This model also incorporates a linear slide that allows path length optimization between the AUT and probe antenna. Larger antenna arrays can be tested with the increased path length, and for smaller antenna diameters the measurement antenna is moved closer to the DUT to improve the dynamic range of the system. Antenna array diameters up to 10 cm at 20 GHz and 7 cm at 44 GHz, AMS-5702 covers the vast majority of FR2 transmitting devices, especially with "white-box" knowledge of the device.

**Product Features:**

- Mobile RF-Shielded Test Environment
- Direct Far-Field (DFF)
- Multi Axis Positioning System (MAPS) type AUT positioning

**Standard Configuration**

- Supports Passive Testing in CW Mode
- Tests Fully-Modulated Signals

**Technical Specifications**

| | |
|---|---|
| **Electrical** | |
| Measurement Frequency Range | 5 GHz to 50 GHz Standard |
| Path Length | Variable, 50 cm to 150 cm |
| Device Positioner | Accuracy: 0.05 deg<br>Resolution: 0.02 deg |
| Quiet Zone Size<br>(Maximum Antenna Under Test Diameter per Frequency) | 24 GHz = 5.6 cm - 9.6 cm<br>28 GHz = 5.0 cm - 8.8 cm<br>39 GHz = 4.4 cm - 7.6 cm<br>44 GHz = 4.0 cm - 7.0 cm |
| Typical RF Isolation | 80 dB @ 40 GHz |
| **Physical** | |
| Overall Dimensions | 2.5 m x 1.4 m x 1.8 m (8.2 ft x 4.6 ft x 5.9 ft) |
| Weight | 5.0 kg (11.0 lb) |

ETS·LINDGREN®
An ESCO Technologies Company

ets-lindgren.com