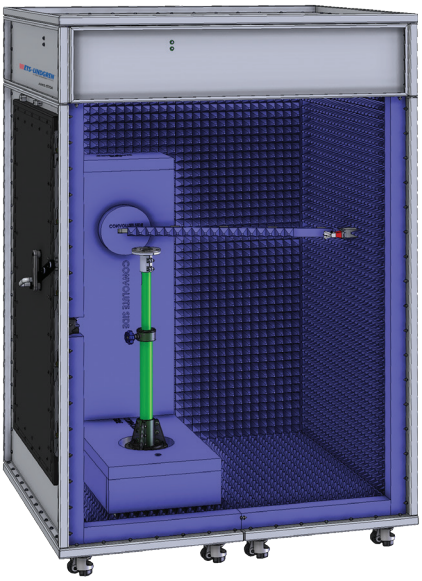
CHAMBERS AMS-5704 WIGIG ANTENNA MEASUREMENT SYSTEM



AMS-5704 WIGIG ANTENNA SERIES

- **Far Field Test System**
- **Dual Polarized Antenna on Theta Arm Positioner**

ETS-Lindgren's AMS-5704 WiGig 5G Antenna Measurement System is a distributed axis far field system that provides 3-dimensional radiated performance measurements over the frequency range of 50 to 75 GHz. Specially designed components enable this theta arm (theta axis) and turntable (phi axis) system to meet the challenges of measurements at this frequency and data rate. The AMS-5704 supports antenna array performance and conformance testing as well as radio interoperability, de-sense and benchmarking tests. Array diameters up to 4.7 cm at 50 GHz and 3.8 cm at 75 GHz can be fully characterized. The AMS-5704 also supports antennas with or without antenna feed ports. The RF-shielded anechoic enclosure is mobile (on wheels) and ideal when space is limited or one system is to be shared across groups and applications. Total RF isolation is 80 dB throughout the frequency range. The AMS-5704 utilizes ETS-Lindgren's EMQuest EMQ-100 Antenna Measurement Software as its data acquisition and analysis package. EMQuest EMQ-100 Antenna Measurement Software efficiently pulls together each piece of hardware to create a powerful test solution. EMQuest EMQ-100 offers a wide range of fully parameterized test methods for measuring passive antenna performance However, active radiated performance is the true forte of EMQ-100 as it interfaces with most available test equipment and data control tools necessary for WiGig devices. AMS-5704 and EMQuest EMQ-100 provide the flexibility and reliability to meet your testing needs for 50-75 GHz antenna systems.

Product Features:

- 75 cm (29.5 in) Range Length
- Laser Alignment
- AUT Single Axis Positioner

Standard Configuration

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

Technical Specifications

Electrical	
Frequency Range	6 GHz to 67 GHz
Test Methodology	Direct Far-Field (DFF)
Rotation Axis	Single-Axis Turntable with Theta-Arm (Spherical)
Maximum Antenna Array Size	50 GHz = 4.7 cm 60 GHz = 4.3 cm 70 GHz = 4.0 cm 75 GHz = 3.8 cm
Physical	
Physical Format	Mobile/Wheels
Overall Dimensions	2.1 m x 1.4 m x 2.2 m (6.9 ft x 4.6 ft x 7.2 ft)
Maximum Load Capacity	5.0 kg (11.0 lb)

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