

AC1224-360-IA

Turnkey Walk-in-sized Modular
Anechoic Chamber and
Positioning Systems for
Near-Field and Far-Field
Measurements



FEATURES

Large Scale Test Setup

Fullsize turnkey antenna development system for microwave and millimeter wave applications. Includes the modular panel-based chamber, spherical and planar-XY positioning systems, measurement software for far-field and near-field data acquisition and real-time VNA integration.

Modular Design

The chamber is reconfigurable allowing future expansion by using 120 cm extension modules. The lightweight modular format allows the AC1224 to be hand carried and assembled in confined spaces. The long-term investment is protected as the entire system is easily disassembled and can relocate to a new location.

Complete System

Rigid CNC-machined panels and aluminum structure, high-performance mmWave absorbers, precision positioners, and an advanced near-field / far-field software designed by antenna experts with 40+ years experience.





AC1224-360-IA SYSTEM OVERVIEW

Chamber

W ~3.8 m x H ~3.9 m x L 5.1 m (~12 ft. x 12 ft. x 16 ft.). Extendable in 1.2 m (4 ft.) increments. Fitted with 115 mm (5-inch) polyurethane mmWave pyramidal absorber with nominal reflection loss 50 dB from 18 to 130 GHz, and 40 dB or better from 10 GHz to 18 GHz.

Positioners

The AC1224-360-IA System is integrated with both the UNO6 Spherical Positioner, and the UNO7 Vertical XY scanner.

Software

Both spherical far-field and near-field data acquisition are enabled. Near-field measurements compensate for the particular probe used in the measurement. Principal plane cuts as well as full spherical data can be measured, displayed, and exported within the software.

Positioning and VNA Control

Positioners and VNA are fully synchronized under real-time control. This permits continuous scanning and data collection without stopping the system at each data acquisition position. Frequency alignment is compensated for in software.

Contact techsales@mmwavetest.com for more information

Mmwave Test Solutions is a company specializing in positioners, anechoic chambers, and similar technologies for mmWave and microwave measurements. We represent select US companies, as well as design and manufacture our own anechoic chambers and positioner systems.

We provide standard products, modified standard products, and full-custom designs.