



HWA-Tech WirelessLab 24/32/48/72

Full-Scenario IoT OTA Testing Solution

Product Description

The WirelessLab Anechoic Chamber is a full-scenario IoT and wireless OTA test system engineered for end-to-end device validation across 2G/3G/4G/5G (FR1), GNSS/A-GNSS, Wi-Fi, Bluetooth, NB-IoT, Cat-M1, LoRa, Zigbee, and UWB standards. Supporting frequencies from 400 MHz up to 11 GHz, it combines a high-stability circular probe array and an advanced Novocomms antenna to deliver 30% greater measurement range than competitors of similar size.



Key Highlights

- 01 Full-Scenario IoT & Wireless OTA Testing** for 2G/3G/4G/5G (FR1), GNSS/A-GNSS, Wi-Fi, Bluetooth, NB-IoT, Cat-M1, LoRa, Zigbee, UWB
- 02 SISO & MIMO Throughput:** TRP/TIS/EIRP/EIS; 2x2 and 4x4 MIMO with CTIA multi-probe certification and 2D/3D channel modeling
- 03 Broad Test Frequency:** 400 MHz – 7.5 GHz or 11 GHz
- 04 LPassive Antenna & Coexistence Testing:** desense, ICS, carrier aggregation (2CC/3CC/4CC)
- 05 High-Stability Circular Probe Array:** rigid EPP material, low-loss amplifiers/RF switches with < 0.1 dB deviation over 24 h at high temperature; 46-path normalization

USAGE APPLICATION



5G FR1 & FR2 Device
Validation



Automotive Radar &
V2X Testing



Aerospace & Defense
RF Systems



Consumer Electronics
Certification

TECHNICAL SPECIFICATIONS

Parameter	Options / Specification
Chamber Dimension (W×H×D)	3m x 3m x 3m 4m x 4m x 4m 5m x 5m x 5m 6m x 6m x 6m
CIIA/CCSA Quiet-Zone	35-40cm 40-50cm 50-65cm
Shielding Performance	400MHz~12GHz >100dB
Test Distance	1.1m 1.3m 1.6m 2.1m 2.6m
Max. DUT Weight	330kg/50kg/100kg/200kg
Turntable Rotation Speed	30°/s
Phi Resolution (turntable)	0.1°
Theta Resolution (probe count)	15°/10°/7.5°/5°
Test Antenna Frequency Range	400MHz - 7.5/11GHz
Polarization Isolation	> 25 dB
Shielding Door Size	1m x 2m double-knife edge triple-spring screen door (manual/electric/pneumatic)

For more information, contact Novocomms at info@novocomms.com

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