

UWB OTA DVT Chamber

Compact and Flexible Solution for UWB Design Verification Test

Overview

The UWB OTA DVT Chamber provides a compact and flexible solution for UWB device characterization and design verification. The design includes an easy to access setup that allows flexible configuration of device under test distance, alignment, and polarization. The universal DUT positioner allows easy rotation (up to ± 180 degrees) ideal for angle-of-arrival (AoA) characterization as well as simple DUT/antenna rotation for V/H polarization.

This chamber, combined with LitePoint's Vivaldi Antenna and IQgig-UWB test platform, provides a comprehensive total solution for UWB ranging (ToF) and AoA characterization as well as RF parametric data collection of UWB devices.

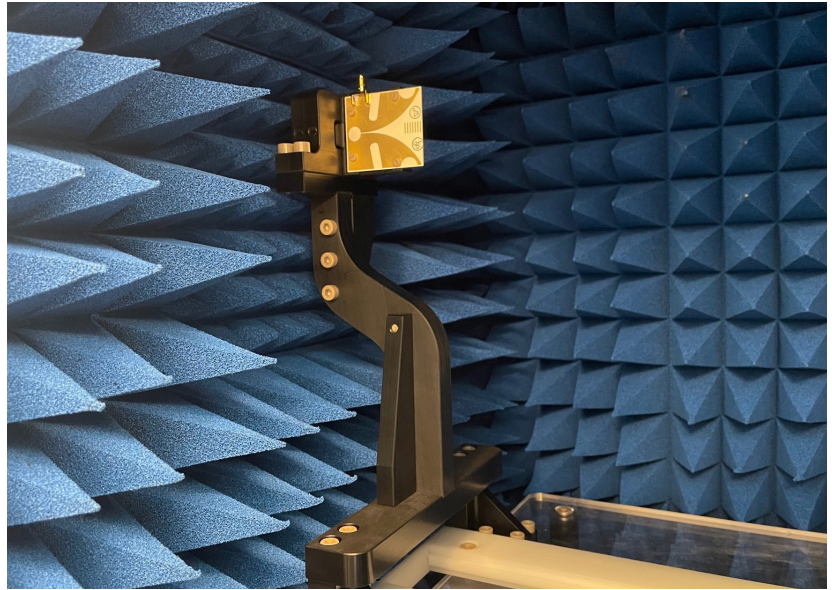
Chamber Features

- Frequency range: 700 MHz to 12 GHz
- Isolation: > 60 dB
- Outer dimensions: 645 mm (D) x 757 mm (W) x 660 mm (H)
- Inner dimensions: 395 mm (D) x 495 mm (W) x 385 mm (H)
- Opening dimension: About 95 degrees
- Weight: approx. 63 kg (139 lbs)
- Absorption material: POM
- Operating temperature: -50 to + 120 °C

DUT and Antenna Positioning*

- Linear slide positioner designed for 30 cm far field distance in 1 axis (max 43 cm)
- Antenna: 0 and 90 degrees mounting
- DUT size supported:
 - x: 58 to 80 mm
 - y: 120 to 160 mm
- Axis angle rotation: ± 180 degrees
- Rotation step size: 5 degrees

*Customization possible



Chamber I/O

- 1x USB 2.0 Filtered (right hand side)
- 3 x SMA to SMA (right hand side)
- 3 x SMA to SMA (left hand side)

Order Codes

Code	Product
0150-IUWB-010	UWB OTA DVT Chamber
0150-IUWB-020	UWB Vivaldi Antenna 6-10 GHz
0150-IUWB-022	UWB Dual-Band (6-10 GHz, 2.4 GHz) Dual Polarized Vivaldi Antenna
0100-IUWB-052	IQgig-UWB+ test System with 4 RF ports active, an OTA port active, with programmable delay control disabled
0100-IUWB-054	IQgig-UWB+ test System with 4 RF ports active, an OTA port active, with programmable delay control enabled
0100-IUWB-102	IQgig-UWB+ test System with 8 RF ports active, 2 OTA ports active, with programmable delay control disabled
0100-IUWB-202	IQgig-UWB+ test System with 16 RF ports active, 4 OTA ports active, with programmable delay control disabled
0100-IUWB-001	IQgig-UWB Test System