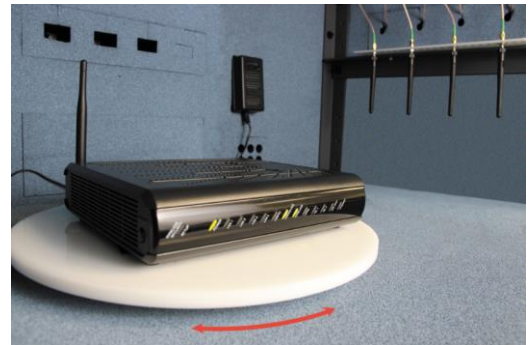# octoBox-TT

octoBox™ small anechoic chamber with a built-in turntable for MIMO over the air (OTA) throughput measurements

octoBox-TT features a built-in low profile turntable that rotates a device under test (DUT) enabling you to measure throughput vs. range and vs. DUT orientation. With RF transparent plastic rails and plastic turntable platter, octoBox-TT maintains anechoic environment for accurate and repeatable testing.

APPLICATIONS

- Wi-Fi (802.11a/b/g/p/n/ac) and cellular (GSM, UMTS, LTE, FDD, TD-LTE and LTE-Advanced) testing
- Throughput measurement vs. DUT orientation and vs. range when used with programmable attenuators in the octoBox-MPE testbed
- Validation of MIMO, beamforming and diversity performance
- RX sensitivity measurements

octoBox OB-38-TT small anechoic chamber

Embedded into a stable anechoic environment of the octoBox Stackable chamber, the turntable enables software controllable DUT rotation while you measure throughput, RX sensitivity and other parameters. Measurements can be averaged or plotted vs. angular position of the DUT.

FEATURES & BENEFITS

- High angular resolution of 1°
- RPM controllable from 0 to 6 RPM
- Supports up to 10 kg DUT
- Flexible DUT mounting system
- USB control interface
- Provided PC software automates MIMO throughput measurements vs. orientation of the DUT and vs. range

OB-THROUGHPUT TCL script automates the test, producing CSV data of throughput vs. range and vs. DUT orientation. You can use the data with a provided Excel plotting template. OB-THROUGHPUT is an independent test automation application that you can use stand-alone or easily integrate into an existing automation framework.
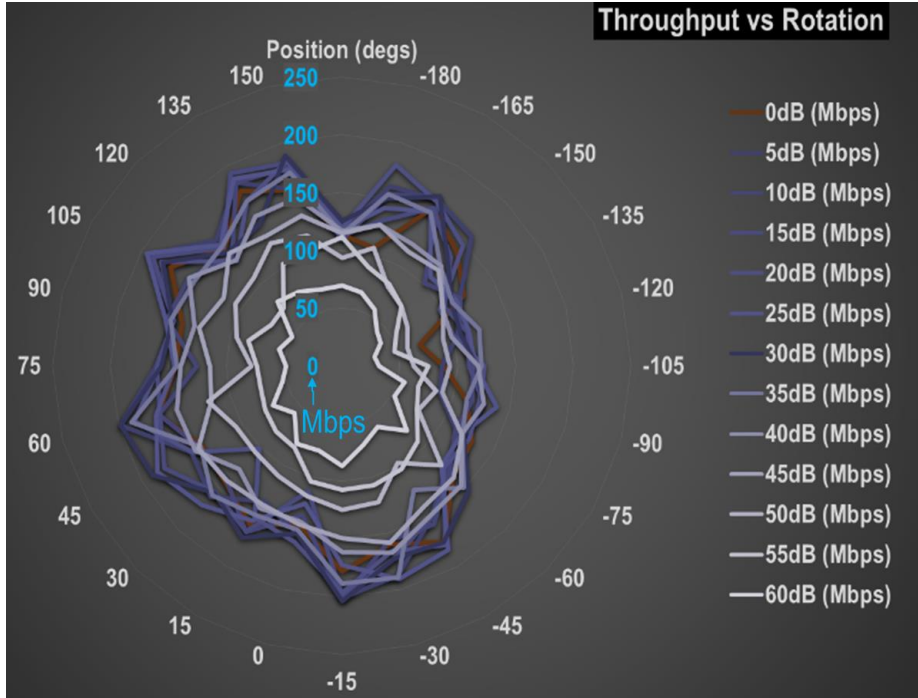
Watch video at this link:
https://www.youtube.com/watch?v=Raqb_PUF-iY

The turntable can be used with octoBox MPE (multipath emulator) testbed to measure MIMO throughput in the presence of multipath and path loss.

Real product antennas can be mounted for true-to-life testing.

SPECIFICATIONS

Parameter	Specification
Angular positioning accuracy	+/- 1°
Rotational speed	0 to 6 rpm
Payload weight	10 kg (22 LBS) max
Command line software controls	✓ Set angular position (move N degrees clockwise or counter-clockwise) ✓ Set 'home' position ✓ Go to 'home' position
Test automation	OB-THROUGHPUT TCL script controlling IxChariot, programmable attenuators and turntable to measure and report MIMO throughput vs. range vs. DUT orientation

CONTACT

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