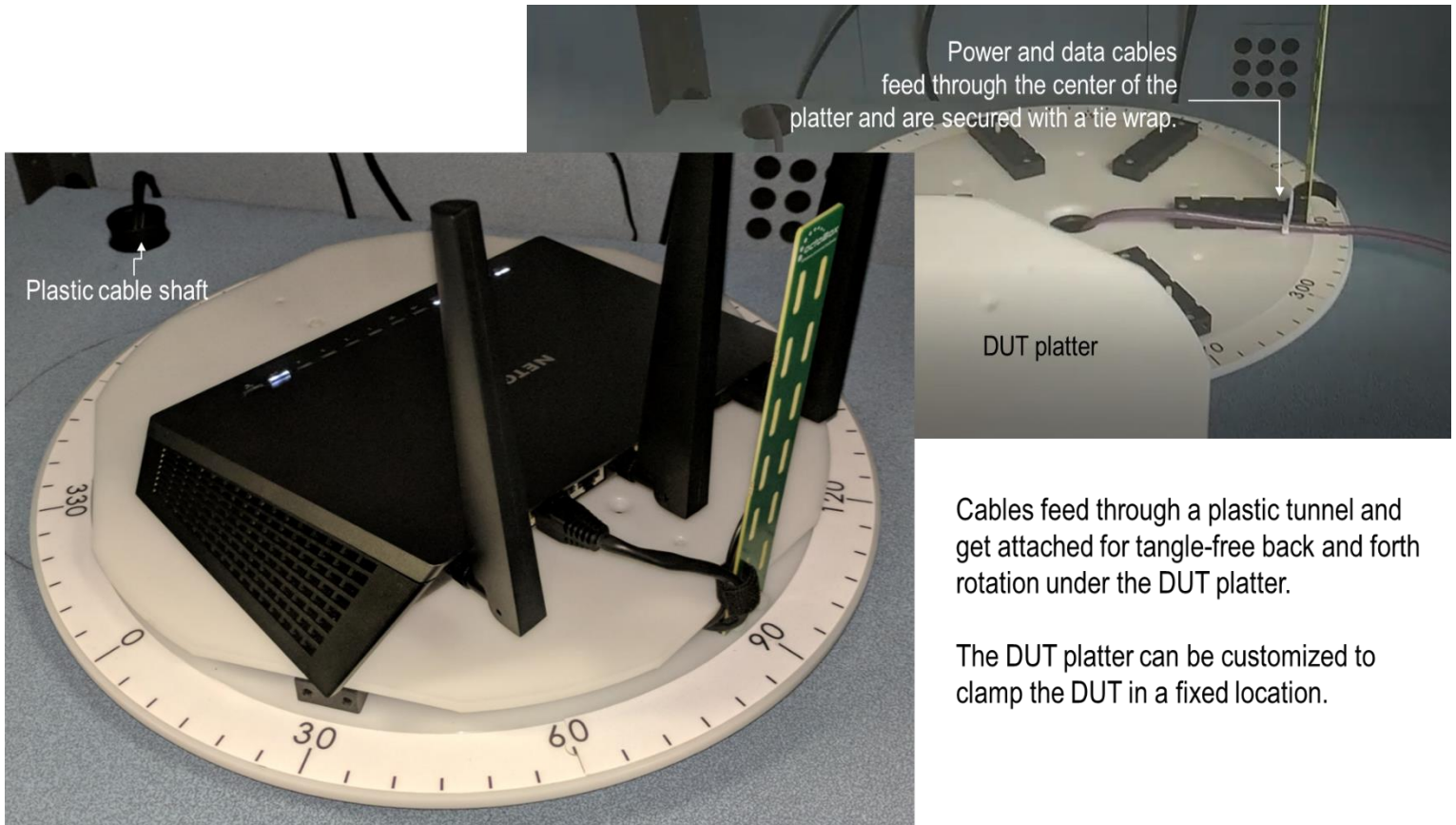


# octoBox turntable datasheet

Programmable turntable built-in to the octoBox® semi-anechoic chamber for controlled MIMO over the air (OTA) testing



Cables feed through a plastic tunnel and get attached for tangle-free back and forth rotation under the DUT platter.

The DUT platter can be customized to clamp the DUT in a fixed location.

## APPLICATIONS

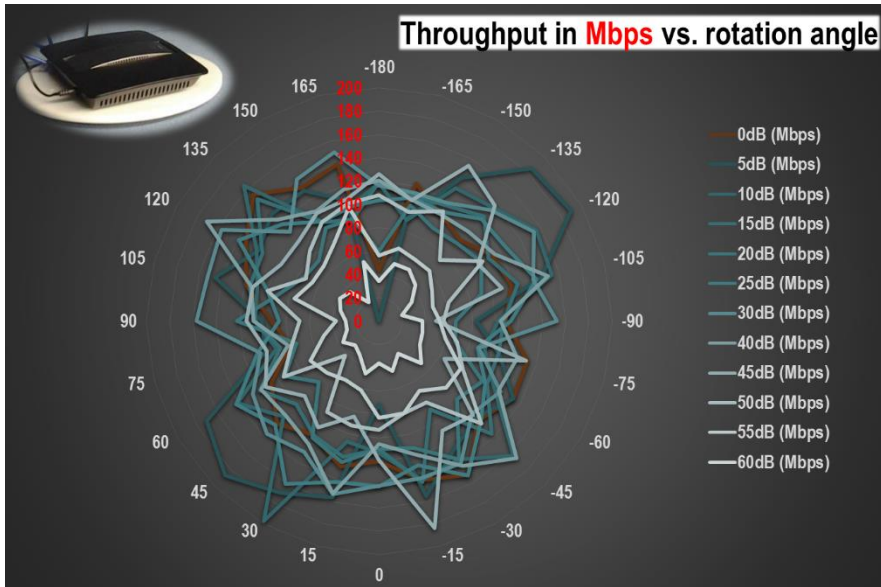
- ✚ Wi-Fi (802.11a/b/g/p/n/ac/ax), mmWave, LTE, FDD and LTE-Advanced testing
- ✚ Throughput measurement vs. orientation and vs. range when used in the octoBox personal testbed
- ✚ Validation of MIMO, beamforming and diversity performance
- ✚ RX sensitivity measurements

## FEATURES & BENEFITS

- ✚ High angular resolution of 1°
- ✚ RPM controllable from 0 to 10 RPM
- ✚ Supports up to 10 kg DUT
- ✚ Flexible DUT mounting system
- ✚ USB control interface
- ✚ Under-DUT cable duct
- ✚ octoBox software automates MIMO throughput measurements

The octoBox® turntable is a low profile anechoic turntable that rotates a device under test (DUT) enabling you to measure throughput vs. range vs. orientation. Precision machined of RF transparent plastic, the turntable maintains semi-anechoic environment in the [octoBox](#) wireless personal testbed for accurate and repeatable testing of Wi-Fi, LTE, Bluetooth, cellular and other technologies.

Embedded into a stable semi-anechoic environment of the octoBox personal testbed, 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.



## USER AND AUTOMATION INTERFACE

Control interfaces:

- Browser UI (see right)
- REST API
- Text socket interface

Use *sweep* or *wiper* mode for continuous motion.

Position (deg) 291  
 Velocity (rpm) 10.000  
 status moving

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Set position (deg):

---

Rotate back and forth:

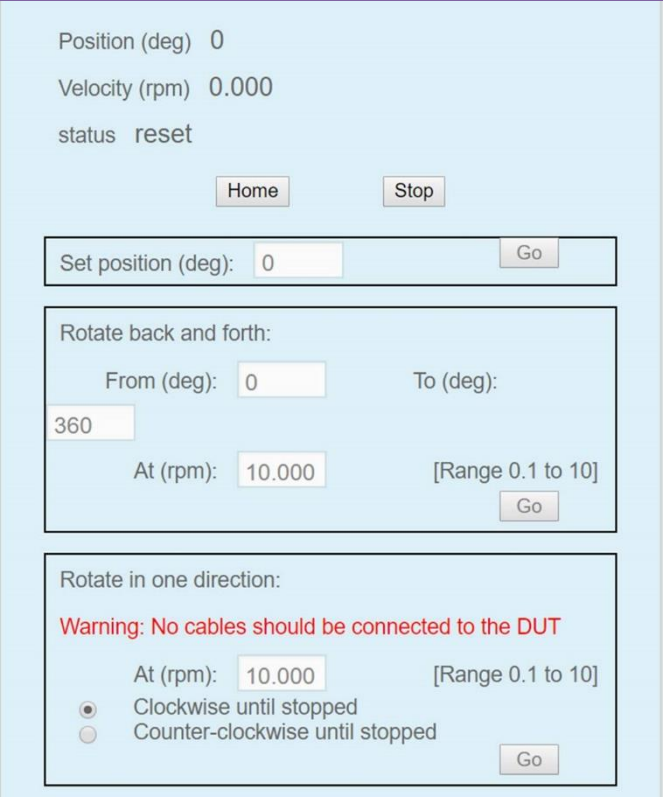
From (deg):  To (deg):   
 At (rpm):  [Range 0.1 to 10]

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IP Settings:

IPv4 Address   
 Subnet Mask   
 Default Gateway

## SPECIFICATIONS

Parameter	Specification
Angular positioning accuracy	+/- 1°
Rotational speed	0 to 10 rpm
Payload weight	10 kg (22 LBS) max
Test automation	REST API or text socket interface
Browser UI	 <p>The screenshot shows a web interface for controlling a turntable. At the top, it displays 'Position (deg) 0', 'Velocity (rpm) 0.000', and 'status reset'. Below this are 'Home' and 'Stop' buttons. A 'Set position (deg):' field contains '0' with a 'Go' button. The 'Rotate back and forth' section has 'From (deg): 0' and 'To (deg): 360' fields, and 'At (rpm): 10.000' with a '[Range 0.1 to 10]' label and a 'Go' button. The 'Rotate in one direction' section includes a red warning: 'Warning: No cables should be connected to the DUT', followed by 'At (rpm): 10.000' with a '[Range 0.1 to 10]' label, and two radio button options: 'Clockwise until stopped' (selected) and 'Counter-clockwise until stopped', with a 'Go' button.</p>

[This video](#) explains how the turntable operates.

## CONTACT

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