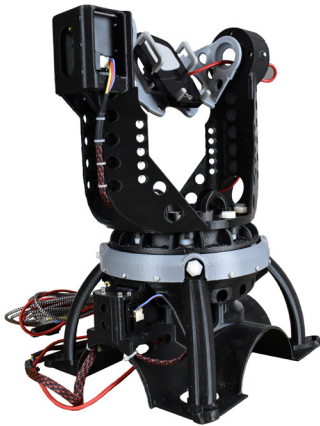
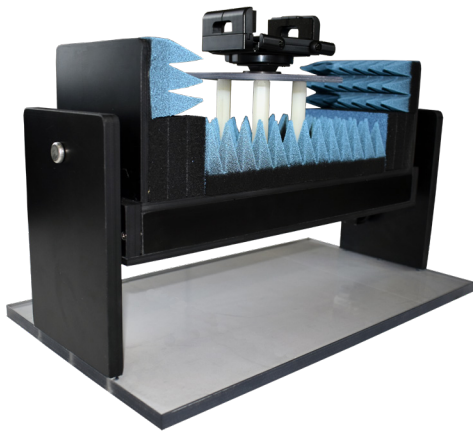


Positioners



Positioner LD

The DVTEST Positioner LD is a two-axis elevation over azimuth positioner for precise angular positioning with full spherical coverage. It is designed for the precise characterization of lightweight devices. The positioner is constructed from a low-permittivity polymer for minimal reflections and multipath. For increased accuracy, the motor is outfitted with an absolute encoder and laser guided calibration. A USB controller is included with the positioner, operated via Python or Matlab software libraries.



Positioner HD

Positioner HD is a two-axis azimuth over elevation positioner for precise angular positioning with full spherical coverage. Designed for antenna and RF device measurement, it is built out of low-reflection materials, with additional RF shielding for minimal multipath and improved measurement accuracy. A slip ring is included to allow for continuous 360° rotation in both axes. This system is highly configurable with options for RF rotary joints, slip rings for data communications, and custom sizing. An external motor controller is included by default. This motor controller connects to a computer via USB and includes an easy-to-use graphic interface. Other software interface command options are available. The controller also includes a digital I/O trigger system for precise synchronization with other devices.

Specifications for Positioners LD and HD

	Positioner LD	Positioner HD
Number of Axes	2	2
Axis Type	Elevation over Azimuth	Azimuth over Elevation
Rotation Range	+/- 180°	Continuous 360°
Maximum Rotation Speed	75°/s	115°/s
Maximum DUT Size Inch (mm)	7.9" (200) x 4.3" (110) x 1.5" (40)	6.5 (165.1) x 6.5 (165.1) x 1.5 (38.1)
Maximum DUT Weight	1 lb	10 lbs
Construction Material	PLA Polyester	G10 Fiberglass Composite with Pyramidal Absorbers
Communication Interface	USB	USB or RS-232
Motor Control Resolution	0.088° Horizontal, 0.176° Vertical	0.00023°
Motor Encoder	Absolute Encoder	Relative Encoder with Home Sensor
Accuracy	1°	0.08°
Software Interfaces	Command Line Libraries: Python, Matlab	Console with a Graphic User Interface, Software Libraries: Matlab, Python, LabVIEW, C#, C++, JavaScript
Manual Control	N/A	Manual Control Knobs
Additional Features	Laser Guided Alignment	Digital I/O Trigger System