



MilliBox™
MMWAVE ANTENNA TEST SYSTEMS

GIM04: 3-Axis Positioners

GIM04 is MilliBox's latest generation of mmWave and THz positioners. It can control 3 axes of rotation in Elevation, Azimuth and Polarization from a single USB controller. Its construction allows GIM04 to adjust to various DUT form factors. GIM04 adds a new level of versatility for daily over-the-air measurements.

POLARIZATION CONTROL- GIM04 positioners support the new **X-Pol** platform system adding polarization as a 3rd axis to the device under test (DUT) control in addition to elevation and azimuth axes.

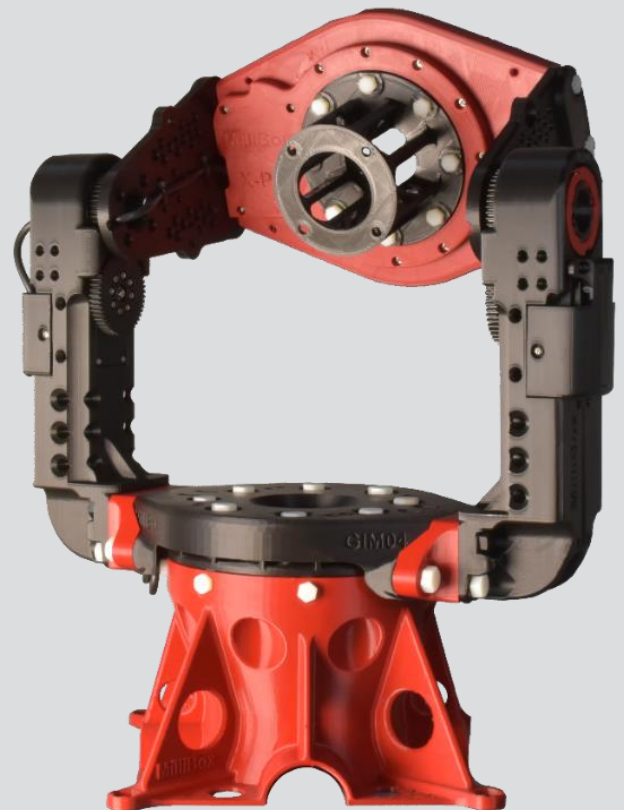
ROBUST AND ACCURATE- All gears in GIM04 are made of precision machined Delrin™ material for higher strength, precision and longer life span. GIM04 base motor has 20W of power with a step resolution of 0.002°.

ADJUSTABLE PLATFORM DEPTH- The DUT platform can be placed at 2 depths from the rotation axis: This makes it easier to accommodate various DUT thicknesses and form factors.

MODULAR SIZE- GIM04 comes in 4 standard sizes all based on the same components. Upsizing and downsizing is possible as DUT requirements evolve over time.

CABLE ROUTING- To bring power, control or RF to the DUT efficiently, GIM04 provides pass-thru channels at the center of each rotation axis and numerous anchor points along the path. This way, no connectors or slip rings are needed from source to DUT.

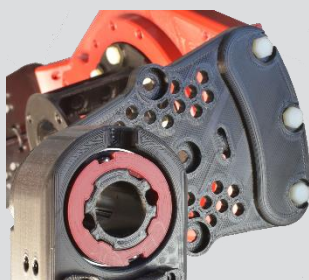
OPEN FRAMEWORK- As with all our other positioners, GIM04 is controlled by a Python based software provided in source which allows easy integration with any instrument or DUT with several built-in capture modes in multiple dimensions.



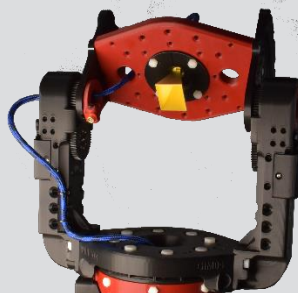
Key Features



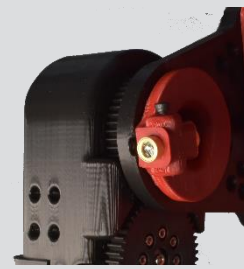
X-Pol: polarization control



2 platform depths







Tangle free wiring



Laser guide

Comparison Chart

	GIM04-200	GIM04-230	GIM04-300	GIM04-380
				
Max DUT width	200mm / 8"	230mm / 9"	300mm / 12"	380mm / 15"
Max DUT weight	3kg	3kg	3kg	3kg
DUT depth	108mm / 4.5" 50mm / 2"	108mm / 4.5" 50mm / 2"	124mm / 5" 66mm / 2.6"	124mm / 5" 66mm / 2.6"
Measurement height	327mm (12.8")	327mm (12.8")	377mm (14.8")	377mm (14.8")
X-Pol support	✗	✓	✓	✓
Fits in MBX0x chambers	✓	✓	✗	✗
Fits In MBX3x chambers	✓	✓	✓	✓
Manufacturer warranty	1 year all parts			

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