

» Gimbal

Gimbal Module for Two Rotational Motion Axes



The CI-Systems module for Pan/Tilt motion is ideal for mounting a UUT in front of a test system. The Pan/Tilt Gimbal offers high accuracy, high load and high torque capacity.

Its structure is designed for high stiffness and thermal stability, accurate orthogonal rotation, smooth motion and high stability

» FEATURES

- ▶ High resolution, repeatability and accuracy
- ▶ High load capacity
- ▶ Built in controller
- ▶ Gimbal size available for UUT size 12" and up to 22"

» OPTIONAL FEATURES

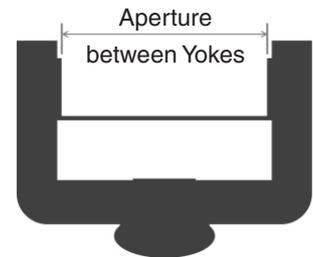
- ▶ Up to 100kg load capacity
- ▶ Customized interface plate

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» SPECIFICATIONS

Standard gimbal		Standard Accuracy	High Accuracy
Maximum Aperture between Yokes	[Inch]	from 12" to 22"	
Accuracy (at $\pm 5^\circ$)	[arc-sec]	50	6
Resolution	[arc-sec]	10	2
Unidirectional Repeatability (at $\pm 5^\circ$)	[arc-sec]	20	4
Maximum Speed	[deg/sec]	8	
Travel range, azimuth	[deg]	$\pm 160^\circ$	
Travel range, elevation	[deg]	$\pm 45^\circ$	
Load capacity	[kg]	20	
Maximum output torque	[nm]	12	
Limit switches optical		Yes	
Origin optical home switch		Yes	
Optical index on encoder		No	Yes
Encoder type		Optical on motor	Optical on axis



Options:

- (1) Aperture between Yokes range from 12" to 22" upon request (see sketch on the right)
- (2) Additional customized Gimbals are available upon request (see images below)

» Images of standard gimbals



12" size Gimbal
For UUT up to 20 kg
(with interface plate)



22" size Gimbal
For UUT up to 20 kg

» Images of customized gimbals



Heavy duty, Medium and Large sizes Gimbals
For UUT up to 100 kg



Single yoke gimbal



Medium size Gimbal
with mirror