



Sentera Technology



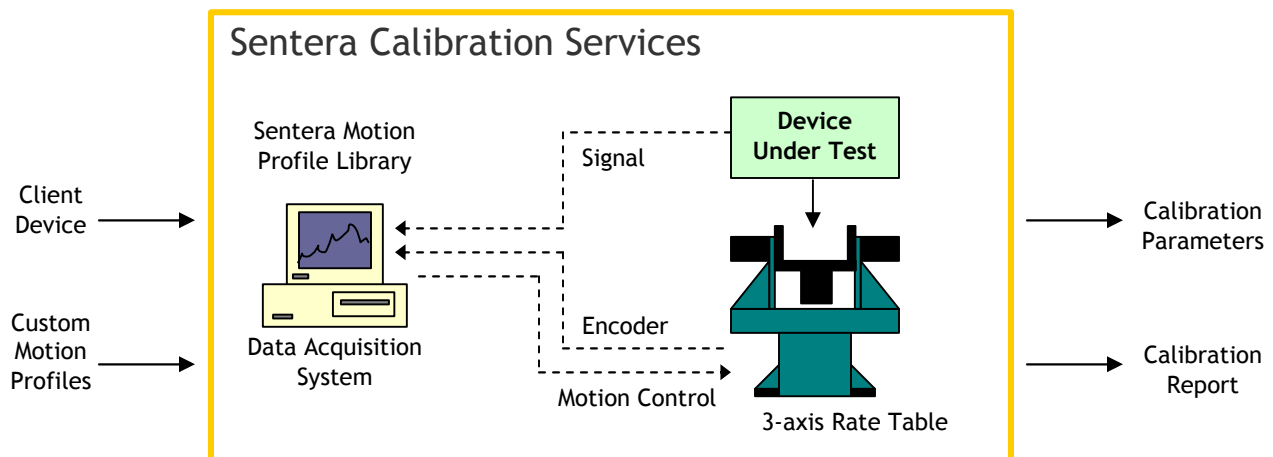
Inertial Calibration Services

Sentera Technology provides the expertise and specialized equipment that allows designers and system integrators to calibrate and evaluate inertial sensor systems.

Sentera Technology's 3-axis rate table and data acquisition system allows for the calibration of

- tri-axial gyros and tri-axial accelerometers,
- IMU's, and
- rate or angle measuring devices.

Sentera Technology also offers the ability to provide custom motion profiles with data acquisition from both the inertial device, such as MEMS and FOG (fiber optic gyros), and the 3-axis positional reference data from the rate table encoders.



Sentera Rate Table Capability

- 3 degrees of freedom angle/orientation positioning with an accuracy of +/- 30 arc sec (0.0083°)
- Rate of rotation in the range of 0.001 to 300 °/sec
- DC acceleration up to 1g
- Temperature chamber with controlled temperature range of 0 to 50 °C



Sentera Rate Table Specifications

Quantity	Range	Accuracy	Remarks
Angle	0 – 360 °	0.0083 °	3-axis
Angular rate	0 – 10 %/sec	0.0015 %/sec	
	10 – 300 %/sec	0.01 %	
DC acceleration	+/- 1 g	0.0001 g	

Parameter	Remarks
Test load capacity	150 lbs.
Axis orthogonality	+/- 10 arc sec (0.0028 °)
Rotational limits	+/- 540 °
Encoder output	614,400 cts/rev
Position accuracy	+/- 30 arc sec (0.0083 °)
Position resolution	2.1 arc sec (0.00058 °)
Position repeatability	+/- 5 arc sec (0.0014 °)
Maximum rate	300 %/sec
Rate accuracy, under 10 %/sec	0.0015 %/sec
Rate accuracy, 10 – 300 %/sec	0.01 %
Absolute homing resolution	2.1 arc sec (0.00058 °)

For more information contact Sentera Technology
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