



NAVIGATION & CONTROL
INERTIAL SOLUTIONS



IRU 24

Inertial Reference Unit for Space Applications

Cielo's IRU 24 employs the latest closed-loop FOG technology. It is a space grade, ultra high performance strap-down Inertial Reference Unit (IRU), suited for satellites, space navigation, stabilization and guidance applications.

- ▶ **ARW < 0.0005°/√hr.**
- ▶ **Bias performance < 0.003 °/hr.**
 - ▶ **Extremely low ARW and bias**
 - ▶ **Space proven in low earth orbit**
 - ▶ **Versatile application usage**

- ▶ Operational in orbit
- ▶ ITAR free
- ▶ 4-axes tetrahedral redundancy
- ▶ Radiation Hardness Assurance (RHA)

IRU24 is designed for demanding satellites and space navigation applications including EO SATS, COM SATS, line of sight stabilization and space-based radar.

ACIS products are suited for various applications



AIR



LAND



NAVAL



SPACE



COMMERCIAL



IRU 24

Inertial Reference Unit Specifications

Parameter	Units	IRU 24
Gyro Bias Stability	°/hr.	<0.003°
Gyro Angular Random Walk	°/√hr	<0.0005°
Gyro Scale Factor Stability	PPM	<2ppm 1σ
Gyro Dynamic Range	°/sec	±35°
Magnetic Sensitivity	°/hr/gauss	<0.001°

Size - 2 box structure	mm	Optical pyramid - 200 X 240 X 240
		Electronics - 25 X 15 X 15
Weight	Kg	< 8.0
Power Input	VDC	25 to 50
Power Consumption	W	25 to 50
Outgassing	Standard	ASTM E 595-93

▶ LEO1, LEO2 missions

