

# AURIGA

## LAST INNOVATIVE STAR TRACKER

- › SPECIFICALLY DESIGNED FOR THE EMERGING SATELLITES CONSTELLATIONS MARKET
- › LOW COST
- › REDUCED WEIGHT AND VOLUME
- › OVER 7 YEARS GUARANTEE

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### TECHNICAL SPECIFICATIONS

#### Environmental Characteristics

Operating temperature range (°C)	With sun	- 27 / + 40
	Without sun	- 30 / + 60
Storage temperature (°C)	- 40 / + 70	
Mechanical first frequency	> 2000 Hz	
Size (mm)	56 x 66 x 94 (height)	
Mass (g)	210	

#### Reliability, Availability and Lifetime

EEE component class	Level 3 equivalent and Automotive
Reliability	<1000 FIT (RDF 2005 method)
Lifetime	Designed for 7 years in LEO

#### Performance and Robustness

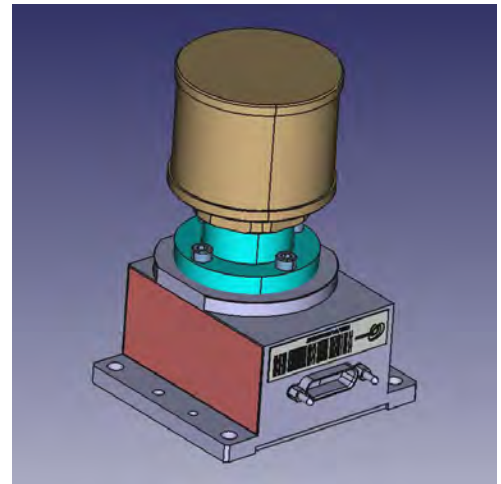
BIAS	0.03 Deg
Thermo-elastic Error	0.5 Arcsec/°C
FOV error	2 / 11 Arcsec
Space-time noise on XY / Z @1σ	6 / 40 Arcsec
Time from lost-in-space @EOL 0.06%/s, @99%	< 11s
Kinematics in Acq/Tracking @EOL	Up to 0.4/3°/s according to temperature
Full Moon in the Field of view	No performance degradation
Baffle SEA (Sun Exclusion Angle)	34 Deg
Baffle EEA (Earth Exclusion Angle)	29 Deg

#### Electrical interfaces

Power supply	5 V
Power consumption	1 W
Output data	SpaceWire
Output Rate	5 Hz

#### Software

Can be made available for any processor



Steady state production of flight units in 2018.



### BEST IN CLASS

➤ Over 40 years of experience with high quality star trackers underlies this small low cost high performing market entry.

### SMART DESIGN

➤ Simple architecture using validated COTS with flight proven software.

### HIGH-PERFORMANCE AND EXCELLENT ROBUSTNESS

➤ Fast acquisition and arcsec tracking – guaranteed for 7 + year life.

➤ Thanks to algorithms inherited from HYDRA, AURIGA offers excellent robustness especially at End Of Life and for high detector temperature conditions in both acquisition and tracking modes.

### CONTACT

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