

# AURIGA

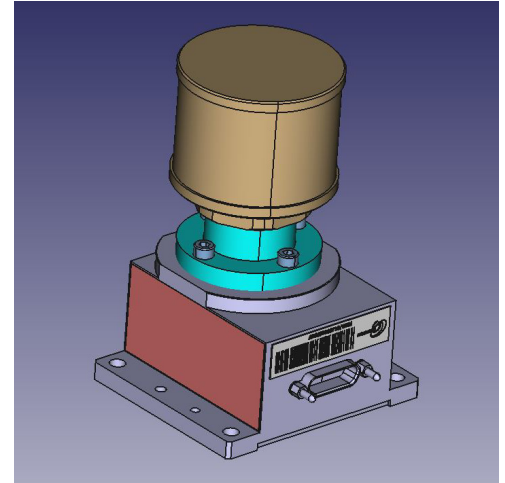
## LAST INNOVATIVE STAR TRACKER

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

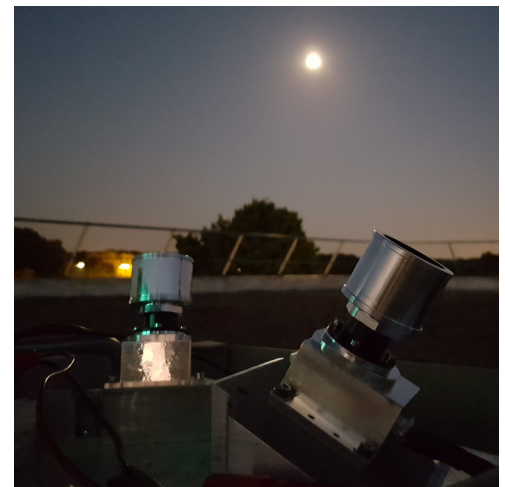
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## LAST INNOVATIVE STAR TRACKER

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

**MARC FULLENBAUM**

Email: marc.fullenbaum@sodern.fr

Phone : + 33 1 45 95 70 34 / + 33 6 71 47 88 03

### Sodern

20 Avenue Descartes  
94450 Limeil-Brévannes  
France  
www.sodern.com