



SPACENAUTE

Ultra-compact and low cost inertial measurement unit for space launchers

Competitive, accurate and compact, SpaceNaute is the most advanced inertial measurement unit for space applications in the world. Selected and qualified for Ariane 6 European launcher, it offers excellent performance and very high reliability under harsh conditions.



OPTIMIZED SIZE, WEIGHT & POWER



ROBUSTNESS TO SHOCK VIBRATIONS
& SPACE RADIATION



HRG UNLIMITED LIFE DURATION



ITAR FREE



Safran Electronics & Defense is with you every step of the way, building in the intelligence that gives you a critical advantage in observation, decision-making and guidance.

Technical Specification

Designed to be at the heart of the trajectory management, SpaceNaute is the most cost-effective SWaP-oriented solution in the world. SpaceNaute covers broad space-applications , from the launch into orbit to space exploration.

SpaceNaute is designed to enable highly-accurate injection in orbit, with fully autonomous and accurate navigation, guidance and control of space launchers in all kind of missions:

- ✓ Sun Synchronous Orbit (SSO)
- ✓ GEOSTATIONARY EARTH ORBIT (GEO)
- ✓ GEOSTATIONARY TRANSFER ORBIT (GTO AND GTO+)
- ✓ DEORBITATION
- ✓ DEEP SPACE EXPLORATION



Thanks to the HRG Technology and Constant Accuracy Improvement, Safran Electronics & Defense works day after day to improve all customers' space missions.

CHARACTERISTICS	SPACENAUTE
SIZE	6.9 liters
WEIGHT	7 kg
POWER	< 16 W
GYRO BIAS	<< 0.01°/h
ACCELERO BIAS	<< 50 µg

+ 40,000
HRG for space, aeronautical,
land & naval applications

+ 20 MILLION
of HRG operating hours

+ 50 YEARS
of expertise in inertial solutions
for space launchers



ACCURACY & INTEGRITY

Guaranteed by the quality of sensors and algorithms

ROBUSTNESS & RELIABILITY

Guaranteed by mature innovations

EASY TO INTEGRATE

Guaranteed by the optimization of the Size, Weight, Power & Cost

EASY TO EXPORT

Guaranteed by European technologies



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