



**Attitude Measurement and Innovative
Astrale Geolocalization**



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MAGELLAN AERO | FEATURES

MAGELLAN is an astro-inertial position and attitude determination system. It is independent of any radio navigation source (GNSS).



Opto-inertial block

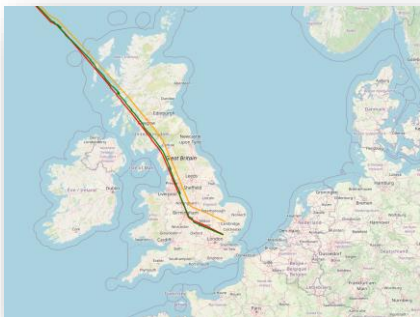
Integrated zipper for closing the flap of the plane

- Field of view : 180°
- Channels : daylight + night with motorized filter
- Size : 240 x 210 x 190 mm
- Weight : 2700 g
- Power supply : POE + 24 V
- Inertial measurement unit : integrated



Computing unit

- 10' rack : 500 x 400 x 250 mm
- Power supply : 230 V AC or 12 V DC
- Industrial computing unit : IP65
- Time server : PTP, PPS + ZDA
- Outputs : NMEA multicast UDP, NMEA RS 422, NMEA RS 485



Performance

- Latitude, longitude : 0,7 NM (1σ)
- Roll, pitch : 0,1 mrad (1σ)
- Heading : 0,1 mrad (1σ)
- Time drift : $<10\mu\text{s/day}$
- Data frequency : 100 Hz
- Availability rate : 100%