

MAGELLAN

Attitude Measurement and Innovative Astral Geolocalization



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FEATURES

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



Opto-inertial block

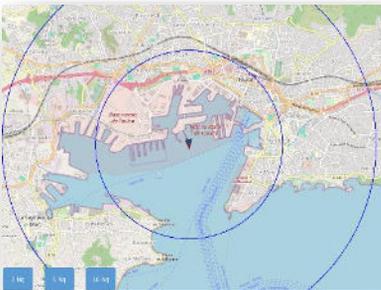
Fixed installation on a clear area

- Field of view : 92°
- Channels : daylight + night
- Size : L 530 x d 290 x H 380 mm
- Weight : 22 kg + support
- Power supply : POE (110 W max)
- Inertial measurement unit : integrated
- Optics protection : integrated
- Window wiper and spray : integrated



Computing unit

- L 500 x D 400 x H 250 mm
- Weight : 20kg
- Power supply : 115/230 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 : 0,1 NM (1σ)
- Pitch, Roll , Heading : 36 arcsec(1σ)
- Time drift : <math><100\mu\text{s/day}</math>
- Data frequency : 100 Hz
- Availability rate : 100%