

BANANAS SINGLE

Semi-independent PPU
for precise navigation



Autonomous precise navigation

- Multi-constellation L1 GPS+GLONASS
- Fully reliable gyro aided AIS heading



Fully Wireless

- Integrated AIS receiver
- Cable free connexion to tablet and piloting software



Dependable efficiency

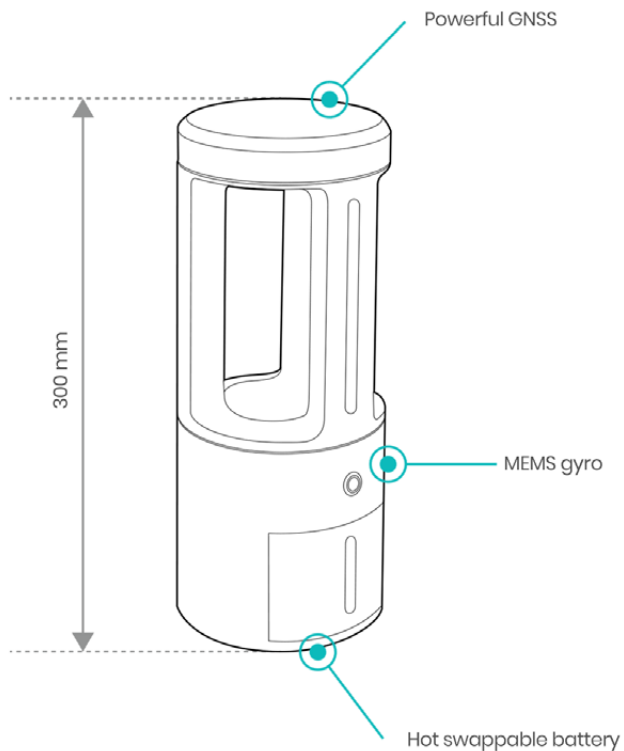
- Unlimited operating time for long navigation thanks to hot swappable batteries
- Snapshot like installation within seconds



BANANAS Single is your perfect mate as the trust worthy navigation aid system you will rely on. Made of a single lightweight beacon, incorporating a GNSS receiver and an AIS module, BANANAS Single uses Wi-fi technology to any pilot's tablet easily. It provides sub-meter accurate positioning and AIS based heading data, augmented by internal gyroscopes securing fully available data whatever the circumstances.

BANANAS Single, as a stand-alone solution is the ideal tool for critical safety dependent navigation maneuvers within challenging harbor channels. Thanks to its hot swappable and safe battery, operations are not limited in time.

BANANAS Single may be upgraded to high-end BANANAS or BANANAS RTK version, with the addition in such case of a second beacon offering complementary communication means firmware options.



Scope of supply

1 beacon

1 battery pack with
charger

Key features	
Powerful GNSS (Powered by Trimble)	L1 GPS, GLONASS
Inertial Augmentation	Gyro aiding with AIS
AIS receiver	Embedded
Autonomy	Endless thanks to hot-swappable rechargeable batteries
Technical specifications	
GNSS differential corrections	SBAS
Performance	
◦ Position	< 2.5m NAT, < 0.5 m SBAS
◦ Heading	< 0.5° AIS depending
◦ Speed detection	2 cm/sec
◦ Rate-Of-Turn (ROT)	< 0.1°/min
◦ Output rate	2 Hz
I/O Interfaces	Wifi
Data protocols	NMEA 0183
Software interface	Compatible with any industry standard navigation software
Physical characteristics	
Dimensions	Beacon : 300mm x 130mm (11.8 x 5.1 in)
Weight	< 3 kgs (<6.6lb)
Environment	
◦ Temperature	Operating -10°C to +40°C, Storage -20°C, +55°C
◦ Ingress Protection	IP67
Visual Monitoring (LEDs)	1 On/Off lightened button with LED
Power	NiMH high capacity rechargeable battery
	Each hot-swappable battery provides 6h autonomy (recharged in 3h)
Options and accessories	
◦ GALILEO, BeiDou	
◦ Full GNSS RTK, RTX (L-Band)	
◦ 0.01° heading with 2 beacons	
◦ Full radio communication (3G, UHF, Long-range Wifi, VTS)	

Specifications subject to change without notice



GEOD® a brand of products invented by Cadden
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systems for maritime and industrial applications

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