

BANANAS

The ultimate PPU sophistication
available to Maritime pilots



Ergonomic

- Easy to use
- Wireless



Precise

- Accurate to the centimeter and to the hundredth of a degree
- Real time feed to any pilot software



Reliable

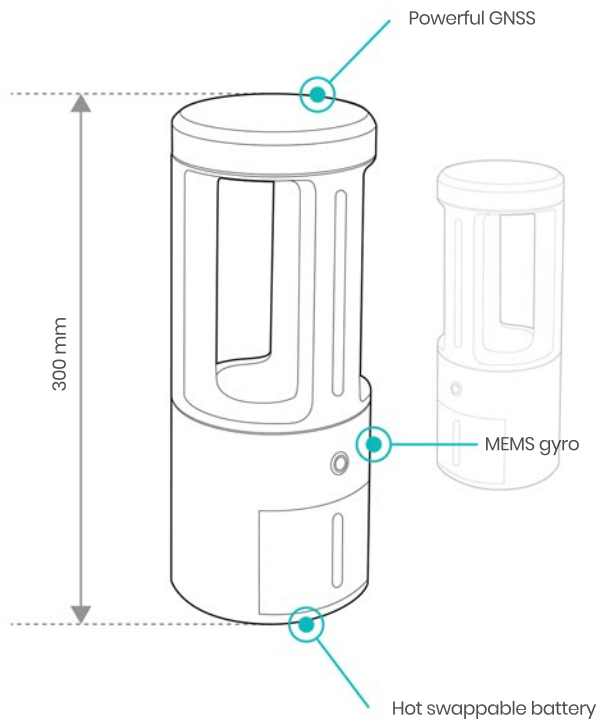
- Dependable long-range wireless connection to pilots' tablets
- Unlimited operating time for long and complex berthing



BANANAS is an acronym for Berthing And Navigation Aid System. This innovative PPU consists of two lightweight beacons, incorporating GNSS RTK receivers aided by internal gyroscopes, and advanced inertial sensors. Pilots can finally obtain accurate Heading, ROT, COG and SOG.

This high precision sensor operates more than 100m from the pilot's tablets, making it a unique PPU champion fit for long and complex berthing maneuvers with its hot-swappable safe batteries.

Thanks to its embedded VHF/UHF radio link, BANANAS is compatible with VTS and long-range AIS, as well as adequate to acquire RTK differential corrections in real time to deliver centimeter accurate positioning.

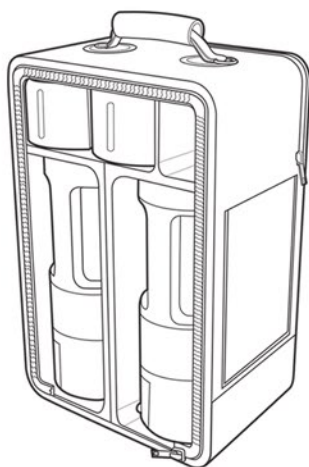


Scope of supply

2 beacons

2 battery packs
with charger

Transport case



| Key features | |
|--|---|
| Powerful GNSS (Powered by Trimble) | L1/L2 GPS, GLONASS, Galileo, BeiDou |
| Inertial Augmentation | Gyro aiding with Kalman Filter (standard) 0.1° MEMS-based INS (optional) |
| Radio links | 3G/4G, Wifi, long-range Wifi, UHF, VHF, AIS/VTS |
| Autonomy | Endless thanks to hot-swappable rechargeable batteries |
| Technical specifications | |
| GNSS differential corrections | RTK, L-Band for RTX, SBAS |
| Performance | |
| ◦ Position | RTK (1cm) |
| ◦ Heading | 0.01° (20m baseline) |
| ◦ Speed detection | 1cm/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 | |
| ◦ L-Band Trimble RTX subscription | |
| ◦ Handheld Tablet | |
| ◦ Software (Qastor, Pilot PRO, SEAIq...) | |

Specifications subject to change without notice



GEOD® a brand of products invented by Cadden
Supplier and designer of accurate positioning
systems for maritime and industrial applications

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