

*Innovative and cost-effective
remote sensing solutions.*



OTR-600 Air-deployable Buoy

The small 600 buoy series from Ocean Trek Research is designed to fit inside a small unmanned aircraft (www.atiak.com) where it can be autonomously released, either upon detection of a target in the water or at a predetermined location. While originally conceived to act as a "marker" for tracking the movement of marine debris, the design is adaptable for a variety of uses including deployment by hand. Roughly the size of a grapefruit, the 600 series uses the Inmarsat satellite network for bi-directional communications. The end-user interacts with the buoy via a personal and secure web page; where buoy data can be viewed on an interactive map and a series of commands can be sent to the buoy (e.g. alter the reporting frequency, poll for position, turn a sensor or light on . . .) Due to the size, limited internal and external sensors can be accommodated.

Features

- High Accuracy GPS Positioning
- INMARSAT D+ Satellite Network
- Internal Sea Surface Temperature probe
- Bi-directional Communications
- Alkaline or Lithium Batteries
- Fully Integrated with Custom Web-based Mapping Software
- High Intensity Recovery Beacon
- Standby, Operational and Recovery modes
- Magnetic Power Switch

Options

- Tether Attachment (bridle line affixed to the buoy)
- Wet-matable Connector for Exterior Sensor Communications
- Customize Your Sensor Package Working with our Experienced Engineers

Specifications

Physical:

- 114 mm (4.5 in) total height
- 142 mm (5.6 in) width (top)
- 0.38 kg (.84 lbs) positive buoyancy in sea water
- 1.06 kg (2.34 lb) in air
- Pressure resistant to 5 meters depth

Electronics:

- INMARSAT D+ Sat 202 satellite modem
- GPS 50 channel <1sec hot/29 sec cold acquisition
- Operating temperature -40 to 70 C
- Private, digitally encoded data burst signals
- Programmable
- Internal SST thermistor
- Fully integrated with custom on-line mapping software

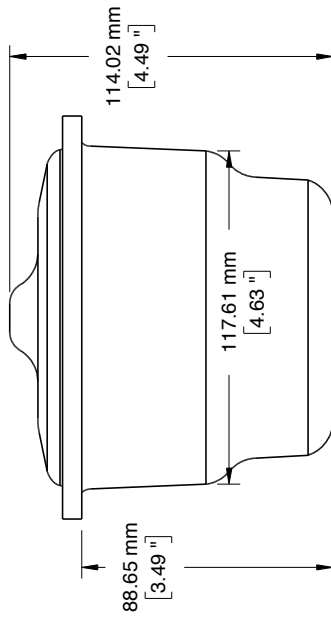
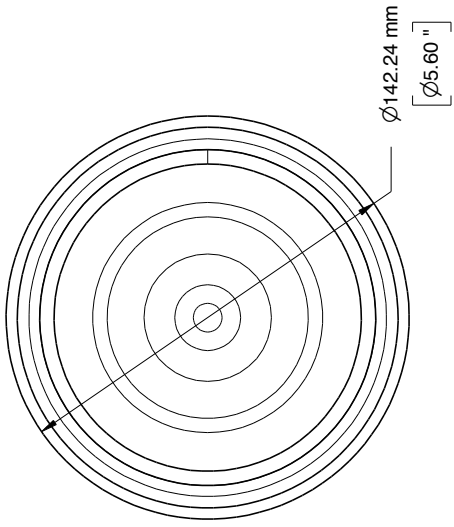
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| DRAWN Tim Veenstra | DATE 8/5/2011 | OTR 600v2basic | |
| | CHECKED QA | OTR-600 Inmarsat Drifter Buoy - Air-deployable from Resolution Unmanned Aircraft | |
| MFG ATI | APPROVED TV | SIZE A | REV |
| | | FSCM NO. OTR600-001 | DWG NO. |
| | | SCALE 1:2.5 | SHEET |