

REVOLVE



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BLUETOOTH RATE OF TURN & AIS

The Raven Revolve is a rate of turn (ROT) sensor and automatic identification system (AIS) interface device for ship navigation. The Revolve integrates with a portable pilot unit via Bluetooth wireless or a USB cable.

Features

- Robust, reliable sensor based upon professional grade gyro technology.
- Transmits ROT and AIS data via wireless data link with range up to 100 m (330 feet).
- Automatically corrects wiring and baud rate errors on the AIS pilot plug.
- Accurate ROT – complies with accuracy requirements of ship gyro standards.
- Battery-powered (15+ hours) and completely isolated from ship's power.
- Portable – no installation required.
- Self-monitoring and temperature compensated – no user calibration.
- Loss Prevention – on-board audio alarm for wireless link loss helps pilots to remember to stow it before leaving a ship.



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PHYSICAL & PERFORMANCE CHARACTERISTICS

Physical

- Size: 114 mm x 79 mm x 24 mm (4.5 in x 3.1 in x 0.94 in)
- Weight: 186 g (6.5 oz)
- Operating Temperature: 4 to 40°C (40 to +104°F)
- Storage Temperature: -20 to 50°C (-4 to +122°F)
- Connectors:
 - 7-pin eSATA, female
 - Mini-B USB
 - DC Jack

Performance

Rate of Turn Sensor

- Accuracy complies with IMO Resolution A.526 (13) and ISO 20672:2007

Communications

- Class I Bluetooth radio with dynamic power management
- USB connector provides backup communications path

Power

- Li-Ion rechargeable battery
- Operating time at 23°C (75°F): 15+ hours with Bluetooth connection
- Battery recharge time: 3-4 h
- LED indicators for low power and charge status

Miscellaneous

- Auto-corrects for wiring errors on the pilot plug
- Scans for PPI signals at 9600, 19200 and 38400 baud rates
- Night mode dims the LED status lights at night
- Soft shutdown after 60 minutes of no AIS data and no Bluetooth connection to conserve battery life
- USB cable can be used for charging the battery and for hard-wire connection
- Firmware can be updated in the field
- Loopback adapter for verifying ship wiring issues

COMPANY BACKGROUND

Aerostar International, Inc. is a wholly owned subsidiary of Raven Industries (Nasdaq NGS: RAVN), a U.S. manufacturer providing Aerospace Products, Military Products, Tethered Aerostats, Protective Wear, Radar, Marine Navigation Products and Custom Inflatables to various markets. Whether facilitating port safety and security or providing communications and surveillance systems for forward operating bases, Raven Aerostar's mission is to save lives.

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Raven Industries, Inc. is a leader in providing reliable, high-performance marine navigation aid systems.

MNH-6006 02/15