

INVICTA 211

PORTABLE BLUETOOTH BEACON GPS RECEIVER



The Invicta 211 is designed exclusively for ship pilots.



The Invicta 211 DGPS receiver is the world's first integrated radiobeacon GPS receiver and antenna. Counted on by pilots throughout the industry, Invicta receivers are manufactured in the U.S. by Raven Industries, a leader in quality GPS receivers.

The Invicta 211 DGPS receiver supports both satellite-based corrections (e.g., WAAS or EGNOS) and land-based, radiobeacon corrections. Satellite-based corrections require line of sight to the satellite, which can be difficult to maintain with the superstructure of ships. Radiobeacon corrections, on the other hand, do not require direct line of sight.

The Invicta 211 DGPS receiver is smaller and lighter than any competing solution that uses radiobeacon corrections. With a battery life of 16+ hours, the Invicta 211 DGPS receiver provides ample time for pilots in most harbors to safely navigate ships in and out of port without recharging.

FEATURES

- Sub-meter accuracy with differential corrections
- Waterproof enclosure
- Bluetooth Class 1 radio with range up to 100 m (330 ft)
- Includes both a clamp and a magnetic mount to support every situation
- Battery status displayed using LEDs and in software (not included)

PHYSICAL CHARACTERISTICS

RECEIVER

Size ^a	200 mm x 100 mm x 50 mm	8 in x 4 in x 1.5 in
Weight ^b	995 g	35 oz

ENVIRONMENTAL

Operating Temperature	-20°C to 50°C	-4°F to 122°F
Charging Temperature	0°C to 45°C	32°F to 113°F
Storing Temperature	-20°C to 50°C	-4°F to 122°F
Maximum Altitude	18,288 m	60,000 ft
Maximum Velocity	1,852 km/h	1,000 kts
Water Ingress	IP-66	

PERFORMANCE

POSITIONING

- Differential accuracy better than 1 meter horizontal RMS
- Supports DGPS (MSK radiobeacon) or SBAS (WAAS, EGNOS, MSAS)

POWER

Battery	Rechargeable lithium ion battery
Operating Time at 75°F (24°C)	16 h
Recharge Time	2-3 h
Input Voltage	100-240 VAC (47-63 Hz), max 10 W

COMPANY BACKGROUND

Raven Industries is a leader in providing reliable, high-performance marine navigation aid systems, historically and today. At the core of our identity is our desire to solve great challenges, providing highly technical and groundbreaking technology for critical missions that can change the world. In 2001, Raven acquired Starlink, Inc., a company that pioneered many GPS technologies, including developing the industry's first MSK Beacon/DGPS receiver. Along with Raytheon Service Company and Capt. Joseph Bradley of The Pilot's Association for the Bay and River Delaware, Starlink developed the first GPS-based portable pilot unit in 1991. Today, Raven Aerostar continues to foster Starlink's rich tradition of developing innovative GPS solutions for marine applications worldwide.

^aSize and weight are approximate.

^bWeight includes all essential items, including mounting clamp (289 g/10 oz) and charger (89g/3 oz).

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