

# GBR 21



## Differential GPS Beacon Receiver

Discover the precision of Differential GPS with the GARMIN GBR 21. The GBR 21 receives corrections for Selective Availability and atmospheric conditions for GARMIN GPS units so you can take full advantage of 5-10 meter GPS accuracy.

Whether you're navigating through a crowded channel, finding your way to an important fishing spot or pinpointing a specific dive location, the GBR 21 can help you hit the spot time and again. Designed for convenient remote mounting, the GBR 21 is readily controlled right from your GARMIN Differential-Ready GPS receiver with simple key commands.

Differential GPS corrections are broadcast by the United States Coast Guard, Army Corp of Engineers and IALA (International Association of Lighthouse Authorities) beacons free of charge. These signals provide information on satellite status and health in addition to the location, frequency and status of the beacon transmitter. The GBR 21 quickly decodes this information for use by GARMIN GPS receivers, correcting for Selective Availability and atmospheric errors.

The GARMIN GBR 21 gives you access to the most accurate form of GPS navigation, with potential for 5-meter precision. GARMIN provides a complete package including wiring harness, antenna and a handy reference card listing both active and planned beacons.

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## Signal/Data Processing

- Frequency: 283.5 - 325 KHz
- Demodulation: MSK (Minimum Shift Keying)
- MSK Bit Rates: 25, 50, 100, 200  
Selectable at GPS receiver
- Data Format: RTCM 104 version 2.0, RS-232,  
6 of 8 format, 4800/9600 baud
- Remote Tuning: Via setup menu on GARMIN  
differential-ready marine  
GPS receivers

## Antenna

- Rec. Antenna: 12" whip (included)
- Ant. Coupler: 1.6" base diameter  
0.6" top diameter  
4.8" height
- Coupler Cable: 30' RG-58 coaxial

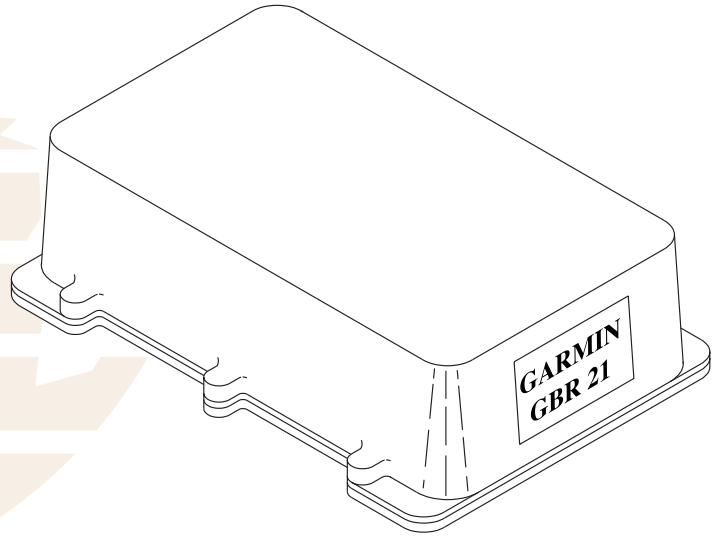
## Power/Physical Specifications

The GARMIN GBR 21 is controlled from an on/off power switch (not included). The receiver may be mounted remotely, but a location that allows easy viewing of the LED status light is recommended.

- Size: 5.2"L x 3.6"W x 1.5"H  
(13.2 x 9.1 x 3.8 cm)
- Weight: 6.8 ounces (193 g)
- Voltage: 10-18vDC
- Current Draw: 130 ma

## LED Status Indicator

- Off: Power to receiver off
- Flashing: Power on, receiver not locked
- Constant: Power on, receiving data



Specifications are preliminary and subject to change without notice.

The DGPS operating system is still in experimental stages.  
Actual accuracy may be better or worse than 5 -10 meters.

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