

## Beacon-on-a-Belt (BoB) *Cable-free Differential Correction Receiver*

### Key features and benefits

- Provides real-time DGPS accuracy to mapping receivers
- Cable-free communication with Trimble GeoExplorer 3
- Rugged, ergonomic design
- Noise-rejecting beacon receiver

Trimble's Beacon-on-a-Belt (or BoB™) receiver lets you add the extra precision of real-time differential GPS to your GIS projects— without adding the encumbrance of a bulky radio pack. The system incorporates a beacon receiver, an antenna and battery in one compact cable-free\* package that you wear on your belt. The BoB receiver decodes GPS differential correction information from local MSK beacons and then transmits that information to any GPS receiver that accepts standard RTCM SC-104 data, eliminating the need to postprocess your data. Best of all, this is completely cable-free when used with Trimble's GeoExplorer® 3.

### Real-time DGPS Accuracy

The accuracy of differential GPS not only means that your databases have better data, it also makes locating previously mapped assets in the field quicker and more accurate too. With differential GPS, distinguishing between closely spaced assets is fast and unambiguous. Back in the office you'll save time too. Since the data you collected was corrected as you gathered it, you can transfer that data directly into your GIS without the delay of a separate postprocessing step.



*Beacon-on-a-Belt (BoB) Receiver*

### Cable-Free Convenience

To complement the convenience of Trimble's handheld GeoExplorer® 3 system, the BoB differential receiver communicates with that system automatically—with no cabling or accessories whatsoever. There's nothing to connect, nothing to forget, and nothing to carry on your back. Your crews will move faster and incur less downtime due to snagged or broken cables.

### Rugged and Easy to Operate

No matter where your data collection and update projects take you, the BoB receiver is ready to follow. Shockproof and water-resistant, it will withstand all the rigors of fieldwork, in any weather. Right out of the box the BoB receiver is ready to start working with your Trimble

GPS/GIS data collection system. Within seconds of powering on, it automatically selects the best beacon and starts transmitting corrections. If you want to reconfigure the receiver in the field an easy-to-use two-button interface simplifies the process.

### Powerful Software

For more extensive configurations the versatile PC-BoB office software makes it easy to exclude beacon stations, define custom display names for stations, and configure the initial tracking mode. All in all, the BoB receiver is the most convenient and versatile beacon receiver we've ever developed.

\* Some countries may not allow transmission on the frequency the BoB receiver uses. BoB receivers sold outside the US have the cable-free option disabled and must be used with a cable.

# Beacon-on-a-Belt (BoB™)

## Cable-free Differential Correction Receiver

### FEATURES

- Dual-channel Minimum Shift-Keying (MSK) Differential GPS (DGPS) beacon receiver
- Cable-free real-time link to the Trimble GeoExplorer 3 mapping system in the United States
- Automatically tracks the strongest or closest beacon signal, or can be fixed to track a specified beacon station
- Rugged, dust, and water resistant housing
- Compact, ergonomic belt-mounted design
- Immunity to noise and jamming signals
- All day internal rechargeable battery
- Simple two button/two LED interface
- Full DGPS status in the field via GeoExplorer 3
- Advanced configuration setup via PC-BoB software
- Advanced diagnostics via PC-BoB software

### HARDWARE SPECIFICATIONS

Size	20.6 cm (8.1") H x 10.7 cm (4.2")W x 10.7 cm (4.2") D (at antenna)
Weight	1.16 kg (2.56 lbs)
Power consumption	1.5 W
Temperature	Operating: -10 C to +50 C (+14 F to +122 F) Storage: -20 C to +70 C (-4 F to +158 F)
Humidity	Up to 99% non-condensing
Port settings	RS-232 at 2400 baud, 8 data bits, 1 stop bit, no parity

### PERFORMANCE SPECIFICATIONS

Cold start time	<25 seconds typical
Warm start time	<12 seconds typical
Channels	2
Frequency	Range: 283.5-325 kHz Spacing: 500 Hz
MSK modulation	50, 100 & 200 b/s autoselection
Output protocol	RTCM SC-104
Input protocol	NMEA 0183
Battery life	Up to 10 hours

### STANDARD ACCESSORIES

- Belt and holster
- Charging cable for internal battery
- PC-BoB software for configuration and diagnostics
- Printed manual and Quick Reference Card
- Curly null modem cable

### OPTIONAL ACCESSORIES

**External power kit** Includes camcorder battery, vehicle and camcorder adapters, vehicle splitter cable and soft shoulder pack.

### ORDERING INFORMATION

Beacon-on-a-belt (BoB)	38600-00-ENG*
BoB with GeoExplorer 3	38400-00-ENG*
BoB with GeoExplorer 3c	38400-50-ENG*
External power kit	39003-00

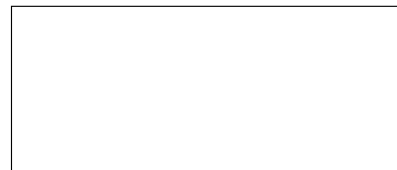
\* these part numbers are for use in the US only. Outside the US contact your local Trimble dealer for local ordering information.



Trimble Navigation Limited  
Corporate Headquarters  
645 North Mary Avenue  
Sunnyvale, CA 94086  
408-481-8940  
408-481-7744 Fax  
www.trimble.com

Trimble Navigation Europe Limited  
Trimble House  
Meridian Office Park  
Osborne Way  
Hook, Hampshire RG27 9HX U.K.  
+44-1256-760-150  
+44-1256-760-148 Fax

Trimble Navigation  
Singapore PTE Limited  
80 Marine Parade Road  
#22-06, Parkway Parade  
Singapore 449269  
+65-6348-2212  
+65-6348-2232 Fax



YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

