

BLACK DIAMOND BD1510010000ALL1

Black Diamond Guide BT Beacon Instruction Manual

Advanced Avalanche Rescue Transceiver

1. INTRODUCTION

The Black Diamond Guide BT Beacon is a professional-grade avalanche rescue transceiver designed for precise location and faster victim detection in backcountry environments. It features both digital and analog search modes, Bluetooth connectivity for app integration, a 60-meter circular range, and an automatic antenna switch to optimize signal transmission. This manual provides essential information for the proper setup, operation, and maintenance of your Guide BT Beacon.

2. SETUP

2.1 Battery Installation

The Guide BT Beacon operates on standard AAA batteries. To install or replace batteries, locate the battery compartment on the back of the device. Open the compartment, insert the batteries according to the polarity indicators, and securely close the cover. Always use fresh, high-quality alkaline batteries for optimal performance and reliability.

2.2 Wearing the Harness

The beacon comes with a harness-style carrying pouch for secure and accessible wear. Place the harness over your left shoulder, ensuring the beacon pouch rests comfortably on your chest. Secure the waist strap around your back and clip it in front. Adjust the straps for a snug fit that allows for quick access to the beacon. The beacon should be worn under your outer layers to protect it from impact and weather.



Figure 1: Black Diamond Guide BT Beacon securely worn in its harness.

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Video 1: Official Black Diamond video demonstrating the features and use of the Guide BT Beacon, including wearing the harness and operating modes.

3. OPERATING MODES

The Guide BT Beacon features a simple three-position switch for Off, Send, and Search modes, along with a locking mechanism to prevent accidental mode changes.

3.1 Power On/Off and Lock

1. To unlock the switch, slide the green lock mechanism away from the main switch.
2. To power on, slide the main switch to the 'SEND' position. The device will perform a self-check.
3. To power off, slide the main switch to the 'OFF' position.
4. Always engage the lock mechanism after selecting a mode to prevent unintended changes.

3.2 Send Mode

In 'SEND' mode, the beacon continuously transmits a signal, making you detectable by other avalanche transceivers. This is the default mode for all backcountry travel. The display will show an 'OK' or similar indicator to confirm signal transmission.

3.3 Search Mode

In 'SEARCH' mode, the beacon receives signals from other transceivers. The display provides visual cues (arrows for direction, numerical distance) and audible tones to guide you to a buried victim. The device can also indicate multiple burial scenarios, allowing for efficient marking and scanning.



Figure 2: The Guide BT Beacon offers a 60-meter circular range for effective search operations.

4. ADVANCED FEATURES

4.1 Bluetooth Connectivity & PIEPS App

The Guide BT Beacon features Bluetooth connectivity, allowing it to pair with the PIEPS App on your smartphone. This app enables:

- Firmware updates for enhanced performance and new features.
- Device customization and settings management.
- Battery optimization.
- Self-check functions to ensure proper operation.

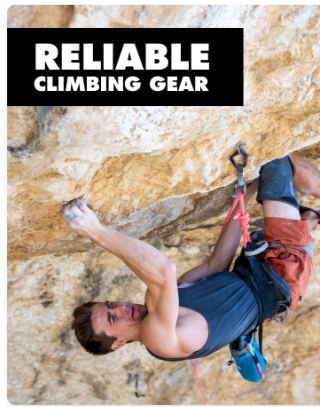


Figure 3: The beacon's display provides clear visual indicators for search and send modes.

4.2 Integrated Inclinometer

An integrated inclinometer allows for quick and accurate assessment of slope angles, a critical factor in avalanche risk evaluation. This feature aids in making informed decisions in the backcountry.

4.3 Automatic Antenna Switch

The automatic antenna switch intelligently selects the antenna that provides the strongest signal, ensuring optimal transmission and reception. This feature enhances the beacon's reliability in various conditions.

5. MAINTENANCE

- **Battery Check:** Regularly check battery levels, especially before each outing. Replace batteries when they reach 20% or less.
- **Cleaning:** Clean the beacon with a soft, damp cloth. Avoid abrasive cleaners or solvents. Ensure the device is dry before storage.
- **Storage:** Store the beacon in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Software Updates:** Periodically check for and install firmware updates via the PIEPS App to ensure your beacon has the latest features and performance enhancements.

6. TROUBLESHOOTING

If you encounter issues with your Black Diamond Guide BT Beacon, consider the following:

- **No Power/Display Issues:** Check battery installation and charge level. Replace batteries if necessary.
- **Signal Interference:** Ensure no other electronic devices (mobile phones, cameras, GPS units) are too close to the beacon, as they can cause interference. Maintain a minimum distance of 20 cm (8 inches) in send mode and 50 cm (20 inches) in search mode.
- **App Connectivity Issues:** Ensure Bluetooth is enabled on your smartphone and the beacon. Restart both devices and try pairing again.
- **Unusual Behavior:** Perform a self-check using the PIEPS App. If issues persist, contact Black Diamond customer support.

7. SPECIFICATIONS

Feature	Detail
Model Name	Bd Guide Bt Beacon
Part Number	BD1510010000ALL1
Item Weight	0.5 Kilograms
Item Dimensions (LxWxH)	5 x 7 x 4 inches
Material	Plastic
Search Range	60 meters (circular)
Connectivity	Bluetooth (for PIEPS App)
Special Features	Digital/Analog Search, Mark and Scan Function, Auto Antenna Switch, Integrated Inclinometer

8. WARRANTY AND SUPPORT

For detailed warranty information, product registration, or technical support, please visit the official Black Diamond Equipment website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.