Bryton Rider S510E
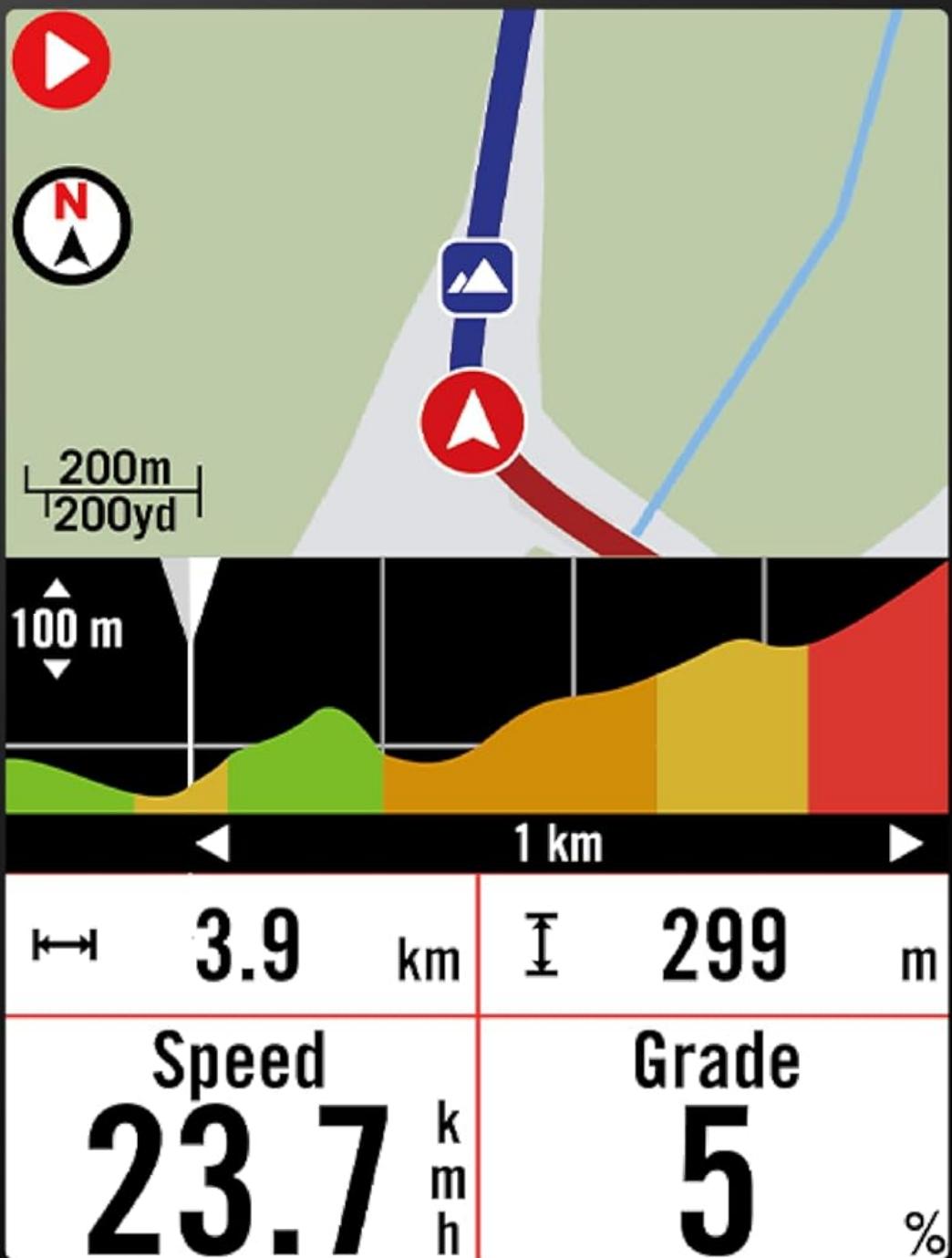
Bryton Rider S510 GPS Bike Computer User Manual

Model: Rider S510E

INTRODUCTION

The Bryton Rider S510 is a state-of-the-art GPS bike/cycling computer designed to enhance your riding experience. Featuring a vibrant 2.8-inch color LCD touchscreen, offline USA map support, and compatibility with various bike sensors, it provides comprehensive data and navigation capabilities for both casual riders and serious cyclists. This manual will guide you through the setup, operation, and maintenance of your Rider S510.

WHAT'S IN THE BOX

Upon unboxing your Bryton Rider S510, please ensure all the following components are present:

- Rider S510 Main Unit
- USB Cable
- Safety Lanyard
- Bryton Bike Mount
- Quick Start Guide

SETUP

1. Mounting the Device

Attach the Bryton Bike Mount securely to your bicycle's handlebars or stem using the provided straps or bolts. Ensure the mount is stable and the device can be easily viewed during your ride.

Figure 2: Attaching the Rider S510 to the bike mount.

2. Initial Power On and Language Selection

Press and hold the power button to turn on the Rider S510. Follow the on-screen prompts to select your preferred language and initial settings.

3. Charging the Device

Before your first ride, fully charge the Rider S510 using the provided USB cable. Connect the cable to the device and a standard USB power adapter or computer USB port. A full charge provides up to 30 hours of battery life.

Figure 3: Charging the Rider S510, highlighting its 30-hour battery life.

OPERATING THE RIDER S510

Touchscreen Interface

The Rider S510 features a responsive 2.8-inch color touchscreen. Navigate through menus and data screens by swiping left/right or tapping icons. The adaptive light sensor automatically adjusts the backlight for optimal visibility in various lighting conditions.

Figure 4: Interacting with the 2.8" color touchscreen.

Data Display and Customization

The device can display over 100 cycling data points. You can customize data fields to show metrics most relevant to your ride, such as speed, distance, ride time, gradient, and altitude gain.

Figure 5: Example of multiple data screens available on the Rider S510.

Navigation with Turn-by-Turn Alerts

The Rider S510 comes with preloaded maps for seamless navigation. It provides turn-by-turn directions, including road names and remaining distances. If you deviate from your planned route, the device will automatically recalculate without requiring a phone connection.

Figure 6: Turn-by-turn navigation view on the Rider S510.

Climb Challenge 2.0

This advanced feature provides real-time climb data. Unlike previous versions, Climb Challenge 2.0 uses smart prediction to analyze the road ahead and display essential metrics for upcoming ascents, even without a preloaded route. This allows you to prepare for and conquer every climb with confidence.

Figure 7: Climb Challenge 2.0 displaying real-time climb data and integration with the Bryton Active app.

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Video 1: Overview of Bryton Rider S510 features, including the 2.8" color touchscreen, 30-hour battery life, Climb Challenge 2.0, and comprehensive connectivity.

CONNECTIVITY

The Rider S510 offers versatile connectivity options:

- **Bluetooth & ANT+ Connectivity:** Easily pair with a wide range of cycling accessories, including heart rate monitors (from smartwatches), electronic shifting systems, and rear bike radar.
- **Bryton Active App:** Sync your cycling data automatically with the Bryton Active app. This app allows you to analyze your rides, manage device settings, and plan routes.
- **Third-Party Platform Sync:** Seamlessly share your riding activity and routes with popular platforms like Strava, TrainingPeaks, Komoot, and Ride with GPS. Routes planned on these platforms can be automatically synced to your Bryton Active app account.

Video 2: Demonstrates the Bryton Rider S510's user interface and its ability to connect with various sensors and sync data to the Bryton Active app and third-party platforms.

MAINTENANCE

- **Cleaning:** Wipe the device regularly with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store the device in a cool, dry place when not in use. Avoid extreme temperatures.
- **Battery Care:** For optimal battery longevity, avoid fully discharging the battery frequently. Charge it regularly, especially if storing for extended periods.
- **Firmware Updates:** Periodically check for firmware updates via the Bryton Active app to ensure optimal performance and access to new features.

TROUBLESHOOTING

- **Device Not Powering On:** Ensure the device is fully charged. If the issue persists, try connecting it to a different USB port or charger.
- **GPS Signal Issues:** Ensure you are in an open area with a clear view of the sky. Avoid areas with tall buildings or dense tree cover.
- **Sensor Pairing Problems:** Ensure sensors are active and within range. Check the sensor's battery level. Try re-pairing the sensor through the device's settings menu.
- **Data Sync Issues:** Verify your Bryton Active app is up-to-date and your device is connected via Bluetooth to your smartphone. Check your internet connection for third-party platform sync.
- **Touchscreen Unresponsive:** A soft reset (holding the power button for 10-15 seconds) can often resolve minor software glitches.

SPECIFICATIONS

Feature	Specification
Brand	Bryton
Color	Black
Product Dimensions	2.24"L x 0.89"W x 3.43"H
Item Weight	96 Grams (3.39 ounces)
Screen Size	2.8 Inches
Display Type	LCD
Battery Life	30 Hours
Battery Cell Composition	Lithium Ion
Connectivity Technology	Bluetooth, ANT
Human Interface Input	Touchscreen, Buttons

Feature	Specification
Special Features	Touchscreen, Bluetooth, Waterproof, ANT+, Climb Challenge 2.0
Country of Origin	Taiwan

WARRANTY AND SUPPORT

For detailed warranty information, technical support, and frequently asked questions, please refer to the official Bryton website or the comprehensive User Manual PDF.

Official User Manual (PDF): Download Here

Related Documents - Rider S510E

[Bryton Rider S510 Performance GPS Bike Computer User Manual](#)
Comprehensive user manual for the Bryton Rider S510, a performance GPS bike computer designed for cyclists. Discover setup guides, navigation features, training tools, and connectivity options for an enhanced cycling experience.

[Bryton Rider S810 GPS](#)
Bryton Rider S810 GPS   .   , , ,   Bryton Active   .

[Bryton Rider S810 GPS](#)
Bryton Rider S810 GPS

[Bryton Rider S810 User Manual: GPS Bike Computer Guide](#)
Comprehensive user manual for the Bryton Rider S810 GPS bike computer. Learn setup, navigation, workout tracking, sensor pairing, and device features for enhanced cycling performance.

[Bryton Rider S800 GPS Cycling Computer User Manual](#)
Comprehensive user manual for the Bryton Rider S800 GPS cycling computer, covering setup, features, navigation, settings, and maintenance for cyclists.

[Bryton Rider 450 User Manual](#)
Comprehensive user manual for the Bryton Rider 450 GPS cycling computer, detailing setup, operation, training features, navigation, settings, and connectivity with the Bryton Active App.

Documents - Bryton – Rider S510E

[pdf] Installation Guide Specifications
PowerPoint Presentation thomas@brytonsport Specifications Bryton Rider S510E cycling computer Clear Bikeinn eng bryton specs rides510 tradeinn web especificaciones |||
Bryton New Product Introduction Newest Product Launch 2024 Bryton s 2024 Premier GPS Cycle Computer. Featuring a Color-Touchscreen with Advanced Features Climb Challenge 2.0 SPECIFICATIONS MAIN FEATURES S510 v S500 COMPARISON NEW FEATURE Climb Challenge 2.0 CONNECTIVITY SPECIFICATIONS Key...
lang:en score:30 filesize: 4.06 M page_count: 34 document date: 2025-01-16