

## Bryton Rider S500

# Bryton Rider S500 User Manual

Model: Rider S500

Brand: Bryton

## INTRODUCTION

---

The Bryton Rider S500 is a compact and powerful GPS cycling computer designed to enhance your riding experience with advanced features and intuitive operation. It offers comprehensive data tracking, smart navigation, and seamless connectivity for both outdoor and indoor training.



Image: Bryton Rider S500 unit, sport mount, protective case, and product packaging.

## WHAT'S IN THE BOX

---

Please verify that all items listed below are included in your package:

- Rider S500 Main Unit
- USB Cable
- Sport Mount
- Safety Lanyard + Protective Case
- Quick Start Guide

## SETUP

---

## 1. Initial Charging

Before first use, fully charge the Rider S500 using the provided USB cable. Connect the USB cable to the device's USB-C port and a compatible USB power adapter (not included) or computer USB port.



Image: Icon indicating USB Type-C compatibility.

## 2. Mounting the Device

Attach the sport mount to your bicycle's handlebars or stem. Secure the Rider S500 unit onto the mount by aligning the tabs and twisting until it locks into place. Use the safety lanyard for added security.

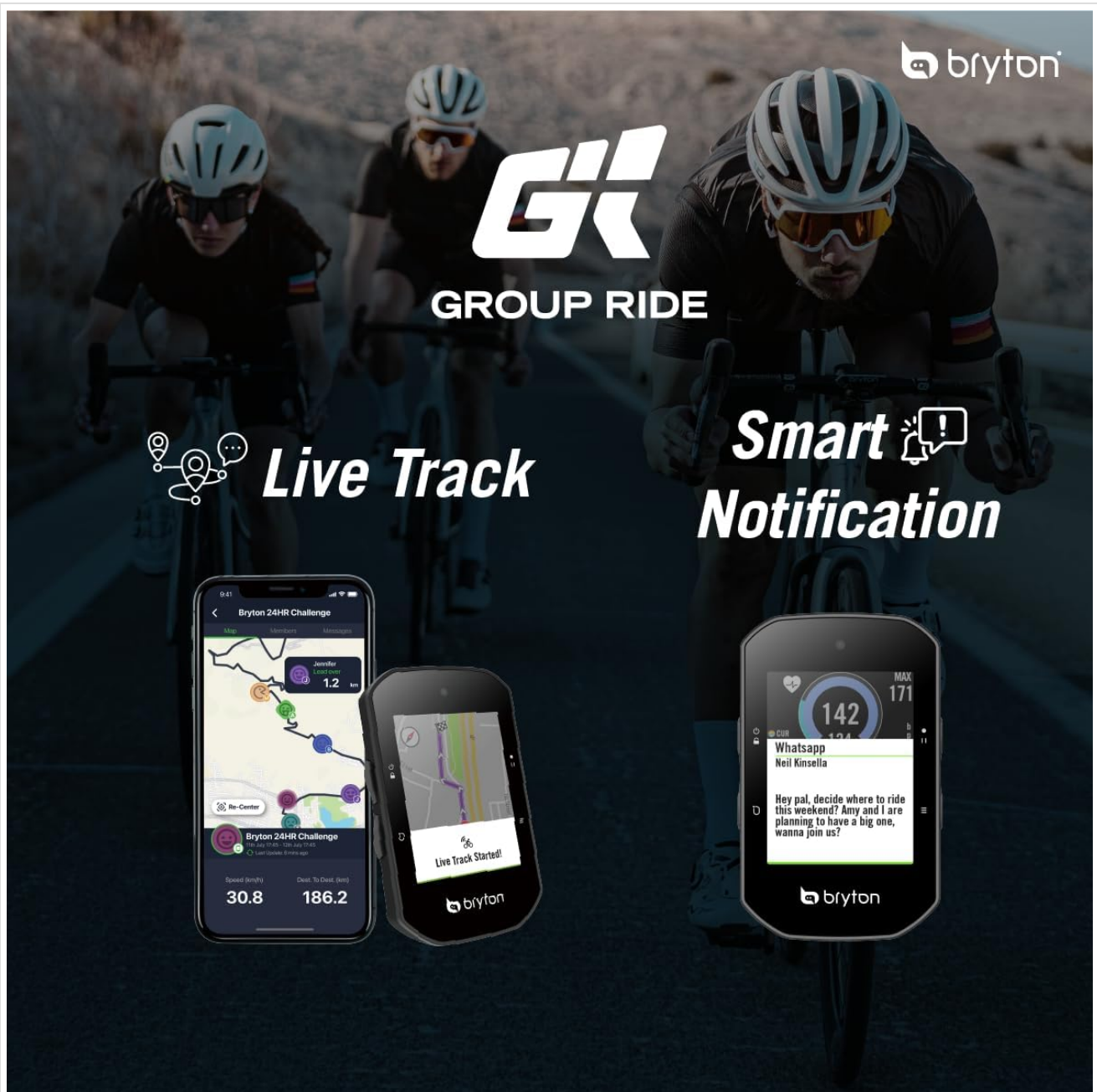


Image: Bryton Rider S500 mounted on a bicycle handlebar, showing its position during a ride.

### 3. Bryton Active App Installation

Download the Bryton Active App from your smartphone's app store (available on iOS and Android). This app is essential for device setup, data synchronization, and advanced features.



Image: Icons for downloading the Bryton Active App from App Store and Google Play.

### 4. Pairing with Bryton Active App

1. Turn on your Rider S500.
2. Open the Bryton Active App on your smartphone.
3. Follow the on-screen instructions in the app to pair your device via Bluetooth.

## OPERATING INSTRUCTIONS

---

### Basic Operation

The Rider S500 features a 2.4-inch color touchscreen for intuitive control. Navigate menus by swiping and tapping. Physical buttons on the side provide additional control for specific functions.



Image: Simplified view of the Bryton Rider S500 touchscreen interface.

### Navigation Features

The Rider S500 offers advanced navigation capabilities with pre-loaded OpenStreetMaps and 5-satellite global GPS coverage.

- **Turn-by-Turn Guidance:** Follow detailed prompts for your route.
- **Voice Search:** Use the built-in microphone for hands-free destination search.
- **POI (Point of Interest):** Discover and navigate to points of interest along your ride.
- **Rerouting:** If you go off-track, the device will automatically reroute you back to your course.



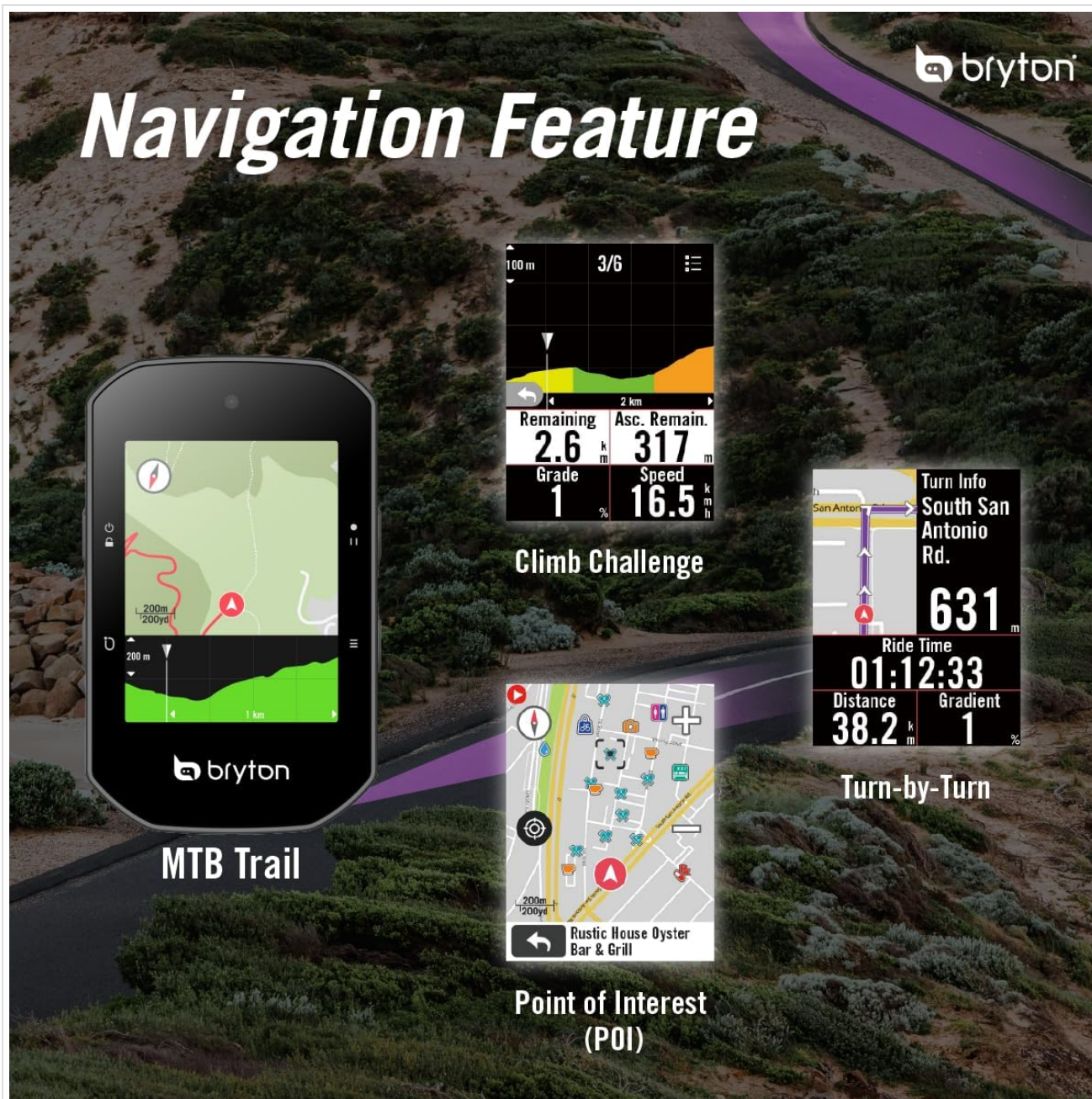


Image: Visual representation of the Rider S500's navigation features, including MTB trail display, climb challenge data, point of interest mapping, and turn-by-turn directions.

## Training and Performance

Optimize your training with the Rider S500's comprehensive data analysis and workout features.

- **Climb Challenge:** Displays real-time climb segments, showing distance, altitude, ascent data, and start/end points.
- **Indoor Smart Trainer Control:** Compatible with ANT+ FE-C trainers to control resistance and simulate recorded tracks.
- **Power Training Analysis:** Analyze data including seated/standing position, power phase (PP), platform center offset (PCO), and right/left balance.
- **Advanced Workout:** View remaining workout progress and customizable power zones.

# Take Training to the Next Level



STRAVA



TRAINING PEAKS



komoot



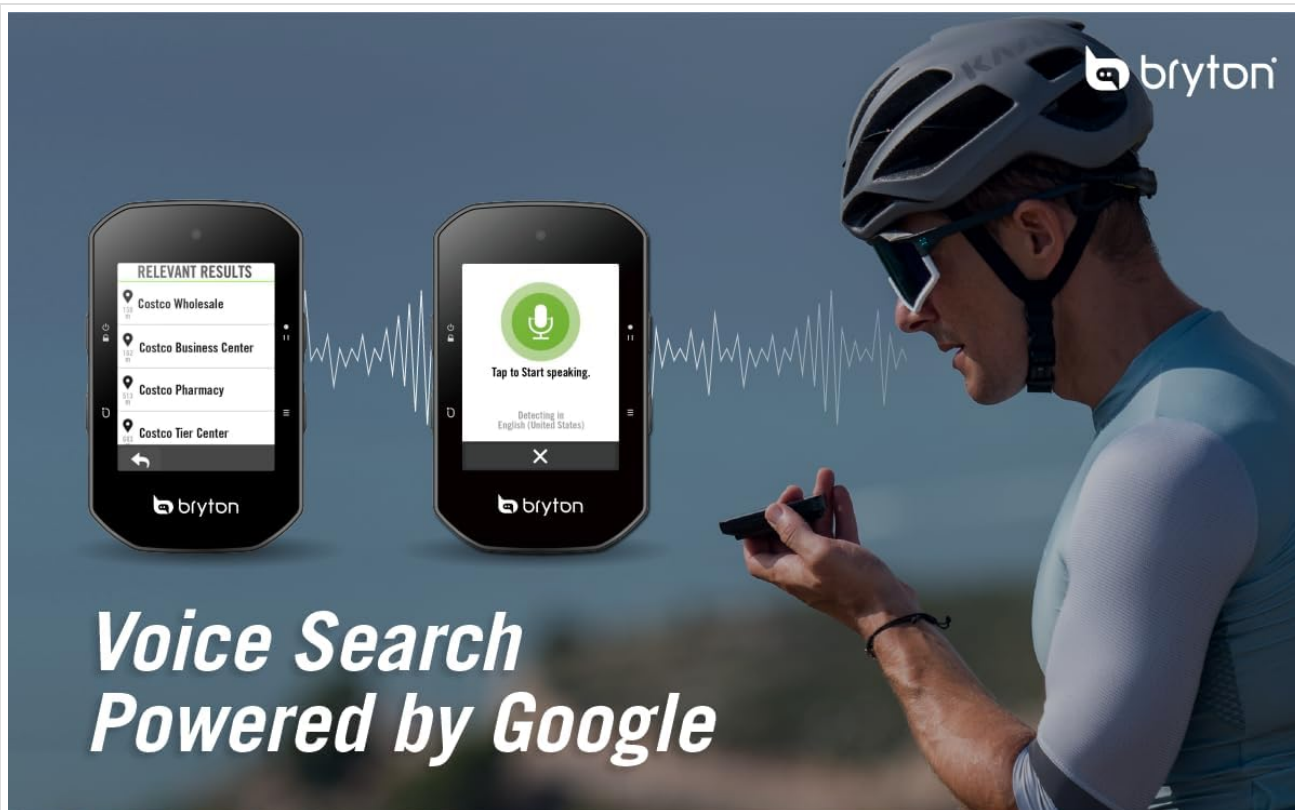
Relive selfops

Image: The Rider S500 displaying various training metrics and showing compatibility with popular third-party platforms like Strava and TrainingPeaks.

## Connectivity and Safety

- **Bluetooth & ANT+ Connectivity:** Connect to speed, cadence, and heart rate sensors for real-time data.
- **ESS Support:** Displays electronic gear-shifting system battery life, gear ratio, and gear combo.
- **Bike Radar Compatibility:** Enhances safety by connecting to ANT+ rear-view bike radar (e.g., Gardia 300L) for vehicle detection and alerts.
- **Group Ride Feature:** Track group members' real-time status and send messages.
- **E-Bike Support:** Displays e-bike data for compatible brands (Shimano Steps, ANT+ LEV).





**Voice Search  
Powered by Google**



**2.4"**  
**Touchscreen**  
*Ultra-sensitive touch experience*

Image: The Rider S500 highlighting its voice search capability and 2.4-inch touchscreen for an ultra-sensitive touch experience.

## Video Demonstrations

Your browser does not support the video tag.

Video: Bryton Sponsor of the Intermarch Wanty Cycling Team. This video showcases Bryton's partnership with a professional cycling team, highlighting the product's use in competitive cycling environments.

Your browser does not support the video tag.

Video: New Rider S series performance line of GPS cycle computers. This video introduces the Rider S series, emphasizing its performance features and capabilities for serious cyclists.

## MAINTENANCE

## Cleaning

Wipe the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents that may damage the screen or casing. Ensure the USB port cover is securely closed to maintain water resistance.

## Software Updates

Regularly check for and install software updates via the Bryton Active App or Bryton Update Tool. Updates provide new features, performance improvements, and bug fixes. Ensure your device is sufficiently charged before performing an update.

## TROUBLESHOOTING

### Device Not Turning On

- Ensure the device is fully charged. Connect it to a power source for at least 30 minutes.
- Perform a soft reset by pressing and holding the power button for 10-15 seconds.

### GPS Signal Issues

- Ensure you are in an open area with a clear view of the sky.
- Allow the device sufficient time to acquire satellites, especially after being off for an extended period or traveling a long distance.
- Check for any firmware updates that might improve GPS performance.

### Sensor Connectivity Problems (ANT+/Bluetooth)

- Ensure sensors are awake and have fresh batteries.
- Move the sensor closer to the Rider S500.
- Remove and re-pair the sensor in the device settings.
- Ensure no other devices are interfering with the signal (e.g., other ANT+ or Bluetooth devices nearby).

### Data Sync Issues with Bryton Active App

- Ensure Bluetooth is enabled on your smartphone and the Rider S500.
- Check that the Bryton Active App is up to date.
- Restart both the Rider S500 and your smartphone.
- Verify your internet connection for syncing to third-party platforms.

## SPECIFICATIONS

Feature	Detail
Model Name	Rider S500

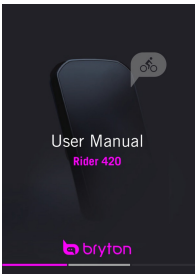


Feature	Detail
Dimensions	2.01 x 0.69 x 3.3 inches
Item Weight	3.07 ounces (87g)
Screen Size	2.4 inches
Display Type	Color LCD Touchscreen
Display Resolution	240 x 320
Battery Life	Up to 24 hours
Connectivity	Bluetooth, ANT+
GPS	5-satellite global GPS coverage
Waterproof Rating	(Implicit from "Waterproof" feature, specific IPX rating not provided in data)
Human Interface Input	Touchscreen, Microphone, Buttons
Color	Black






### WARRANTY AND SUPPORT

For detailed warranty information, technical support, and customer service, please refer to the official Bryton website or contact Bryton customer support directly. Keep your proof of purchase for warranty claims. Visit the [Bryton Store on Amazon](#) for more products and information.

### Related Documents - Rider S500



[Bryton Rider 420 GPS Cycling Computer User Manual](#)  
Comprehensive user manual for the Bryton Rider 420 GPS cycling computer. Covers setup, features, app connectivity, sensor pairing, and maintenance for cyclists.

 <p>The image shows the cover of the Bryton Rider 17 User Manual. It features the Bryton logo at the top left, the title 'USER MANUAL' in green, and a photo of the Bryton Rider 17 cycling computer displaying various metrics like speed, cadence, and distance. The text 'Rider 17' is at the bottom.</p>	<p><a href="#">Bryton Rider 17 User Manual: Setup, Features, and Operation Guide</a></p> <p>Comprehensive user manual for the Bryton Rider 17 GPS cycling computer. Learn setup, sensor pairing, app integration, Live Track, and more.</p>
 <p>The image shows the cover of the Bryton Troubleshooting Guide. It features the Bryton logo at the top left, the title 'Troubleshooting Guide' in the center, and the text 'Version 1.0 (2023)' at the bottom.</p>	<p><a href="#">Bryton Troubleshooting Guide: Resolve Issues with GPS Cycling Computers and Bryton Active App</a></p> <p>Comprehensive troubleshooting guide for Bryton GPS cycling computers and the Bryton Active app. Find solutions for setup, connectivity, sensors, software, hardware, and battery issues.</p>
 <p>The image shows the cover of the Bryton Rider 550 manual. It features the Bryton logo at the top left, the title '使用手冊' (User Manual) in Chinese, a photo of the Bryton Rider 550 cycling computer, and the text 'Rider 550' at the bottom.</p>	<p><a href="#">Bryton Rider 550</a> - _____</p> <p>Bryton Rider 550</p>
 <p>The image shows the cover of the Bryton Rider S810 GPS manual. It features the Bryton logo at the top left, a photo of the Bryton Rider S810 GPS cycling computer, and the title '사용 설명서' (User Manual) in Korean at the bottom.</p>	<p><a href="#">Bryton Rider S810 GPS</a> _____</p> <p>Bryton Rider S810 GPS . , , , Bryton Active .</p>
 <p>The image shows the cover of the Bryton Rider S810 User Manual. It features the Bryton logo at the top left, a photo of the Bryton Rider S810 GPS cycling computer, and the title 'USER MANUAL' at the bottom.</p>	<p><a href="#">Bryton Rider S810 User Manual: GPS Bike Computer Guide</a></p> <p>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.</p>