

## Bryton Rider 650

# Bryton Rider 650 GPS Cycling Computer User Manual

Model: Rider 650

## 1. INTRODUCTION

Welcome to the user manual for your Bryton Rider 650 GPS Cycling Computer. This device is designed to enhance your cycling experience by providing comprehensive data, navigation, and performance tracking. Featuring a vibrant 2.8-inch color touchscreen and an impressive battery life of up to 33 hours, the Rider 650 is built for both daily commutes and extended adventures.

Key features include preloaded Europe maps, automatic brightness adjustment via an ambient light sensor, and compatibility with both Bluetooth and ANT+ sensors for versatile data collection. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your new cycling computer.

## 2. WHAT'S IN THE BOX

Please ensure all the following items are present in your package:

- Rider 650 Device
- USB-C Cable
- Safety Lanyard
- Bryton Bike Mount
- Conversion Kit
- Quick Start Guide



Image: The Bryton Rider 650 device, its retail packaging, and the included bike mount.

### 3. SETUP

#### 3.1 Charging the Device

Before first use, fully charge your Rider 650. Connect the supplied USB-C cable to the device's charging port and the other end to a USB power adapter (not included) or a computer's USB port. The charging indicator on the screen will show the charging status. A full charge can provide up to 33 hours of battery life.

#### 3.2 Initial Power On and Language Selection

Press and hold the power button (usually located on the side or front) until the Bryton logo appears. Upon first power-on, you will be prompted to select your preferred language and set basic regional settings.

#### 3.3 Mounting the Device

The Rider 650 comes with a Bryton bike mount and a conversion kit, making it compatible with standard bike handlebars. Securely attach the mount to your handlebars using the provided hardware. Once the mount is in place, align the Rider 650 with the mount and twist it clockwise until it locks securely into position. Ensure the device is firmly attached before riding.

# **GARMIN Mount Compatible**

***Easy to Install, Ready for the Road***



*Image: A visual guide demonstrating how to install the bike mount for the Bryton Rider 650, highlighting its compatibility with Garmin mounts.*

## **3.4 Pairing Sensors (Bluetooth & ANT+)**

The Rider 650 supports both Bluetooth and ANT+ sensors. To pair a sensor (e.g., heart rate monitor, speed sensor, cadence sensor):

1. Go to the 'Settings' menu on your Rider 650.
2. Select 'Sensors' or 'Add Sensor'.
3. Ensure your sensor is active and within range.
4. The Rider 650 will scan for available sensors. Select your sensor from the list to pair.
5. Once paired, the sensor's data will be displayed on your device during rides.

## **4. OPERATING INSTRUCTIONS**

### **4.1 Navigating the Touchscreen Interface**

The Rider 650 features a responsive 2.8-inch color touchscreen. Swipe left or right to navigate between data pages, and tap icons to access menus or confirm selections. The interface is designed for intuitive use, even while riding.

# **Large 2.8" Color Touchscreen**

## ***Clear and Easy to Read, Even on the Move***



*Image: Two Bryton Rider 650 devices showcasing the clear and easy-to-read data display on their 2.8-inch color touchscreens, including speed, heart rate, and power metrics.*

### **4.2 Customizing Display and Backlight**

You can customize the data fields displayed on each screen to suit your preferences. The Rider 650 also features a smart backlight with an ambient light sensor, which automatically adjusts screen brightness. You can choose from multiple auto modes to optimize visibility and battery consumption.

# Smart Backlight with 5 Auto Modes

**Set Once, Ride Anytime**



					
Level	Auto 1	Auto 2	Auto 3	Auto 4	Auto 5
Battery	33 hr	30 hr	27 hr	21 hr	18 hr

Image: The Bryton Rider 650 displaying its smart backlight settings, illustrating the five auto modes that adjust brightness and impact battery life.

### 4.3 Using Navigation and Maps

The Rider 650 comes with preloaded Europe maps and offers full-color terrain views. To use navigation:

1. From the main menu, select 'Navigation' or 'Courses'.
2. You can import routes, select a destination, or use points of interest.
3. Follow the on-screen directions and map display to navigate your route. The device provides turn-by-turn prompts and visual cues.



# *Full-Color Maps with Terrain Details*

*Know Your Route at a Glance*



*Image: Two Bryton Rider 650 devices showcasing their full-color map display with detailed terrain information, aiding in route understanding and navigation.*

## **4.4 Recording a Ride**

To start recording your ride, ensure GPS signal is acquired and any desired sensors are connected. Press the 'Start' button (usually a physical button or an on-screen icon). The device will begin recording your speed, distance, time, and other metrics. Press 'Stop' to pause or end the ride, and 'Save' to store the data.

## **4.5 Data Sync and Analysis**

After your ride, you can sync your data to the Bryton Active app via Bluetooth or Wi-Fi for detailed analysis. The app allows you to review your performance, track progress, and share your rides. Ensure your device is connected to a Wi-Fi network or paired with your smartphone for seamless data transfer.

# *Trusted Features Riders Rely On*

## *Rider 650 Has...*

- ✓ Easy to Use Interface
- ✓ 33 hrs Battery Life
- ✓ Offline Map
- ✓ Climb Info
- ✓ 3rd party app
- ✓ route recalculate



*Image: The Bryton Rider 650 displaying its main menu, highlighting key features such as an easy-to-use interface, 33 hours battery life, offline maps, climb info, 3rd party app compatibility, and route recalculation.*

## **5. MAINTENANCE**

### **5.1 Cleaning**

To clean your Rider 650, wipe the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as these can damage the screen or casing. Ensure the USB-C port cover is securely closed to prevent water ingress.

### **5.2 Battery Care**

To maximize battery lifespan, avoid fully discharging the device frequently. Store the device in a cool, dry place when not in use for extended periods. If storing for a long time, charge the battery to approximately 50% before storage.

### **5.3 Software Updates**

Bryton periodically releases software updates to improve performance, add features, and fix bugs. Connect your Rider 650 to the Bryton Active app or use the Bryton Update Tool on your computer to check for and

install the latest firmware. Keeping your device updated ensures optimal functionality.

## 6. TROUBLESHOOTING

- **Device Not Powering On:** Ensure the device is fully charged. If it still doesn't power on, try holding the power button for 10-15 seconds for a hard reset.
- **No GPS Signal:** Ensure you are in an open area with a clear view of the sky. It may take a few minutes to acquire a signal, especially after moving to a new location.
- **Sensor Connectivity Issues:** Check that the sensor's battery is not depleted. Ensure the sensor is active and within range of the Rider 650. Try re-pairing the sensor through the device settings.
- **Touchscreen Unresponsive:** Try restarting the device. If the issue persists, ensure the screen is clean and dry.
- **Data Not Syncing:** Verify that your Rider 650 is connected to a stable Wi-Fi network or properly paired with your smartphone via Bluetooth. Check the Bryton Active app for any error messages or updates.

For further assistance, please refer to the official Bryton support website or contact their customer service.

## 7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Rider 650 E (Device Only)
Screen Size	2.8 Inches
Battery Life	Up to 33 Hours
Connectivity	Wi-Fi, ANT+, Bluetooth
Map Type	Europe (Preloaded)
Dimensions	9.1 x 8.8 x 4.1 cm
Weight	132 g
Batteries	1 Lithium Ion battery (included)
Manufacturer	Bryton
Country of Origin	Taiwan
First Available	12 Jun. 2025

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

Your Bryton Rider 650 is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region. Please refer to the warranty card included in your product packaging or visit the official Bryton website for detailed warranty information.



## 8.2 Customer Support

For technical support, product inquiries, or service requests, please contact Bryton customer support. You can typically find contact information, FAQs, and additional resources on the official Bryton website ([www.brytonsport.com](http://www.brytonsport.com)). Please have your product model and serial number ready when contacting support.