# bryton®

**Rider 810**
Performance GPS
Bike Computer

# USER MANUAL

# Table of Contents

# ⚠ WARNING

Always consult your physician before you begin any training. Please read the details in Warranty and Safety information guide in the package.

# Australian Consumer Law

Our goods come with guarantees that can not be excluded under the New Zealand and Australian Consumer Laws. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

# Video Tutorial

For a step-by-step demonstration of device and Bryton Active app, please scan the QR code below to check out Bryton Tutorial Videos.



http://www.youtube.com/c/BrytonActive
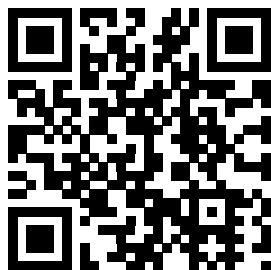
# Getting Started

This section will guide you through basic preparations before the first use with your Rider S810.

## Rider S810 Key Functions

**A. POWER/LOCK ( ⏻🔒 ):**
   Long press to turn the device ON.
   Long press to turn the device OFF.
   Press to lock or unlock the screen.

**B. LAP ( ↻ ):**
   When recording, press to mark the lap.

**C. RECORD ( ●ΙΙ ):**
   Press to start recording.
   When recording, press to pause recording and enter the Menu.

**D. PAGE ( ☰ ):**
   In Cycling mode, press to switch meter screen pages.

## Reboot Rider

Press ( ⏻🔒 / ●ΙΙ / ↻ / ☰ ) at the same time to reboot the device.

## Accessories

**The Rider S810 E SKU comes with the following accessories:**

USB Cable                Bike Mount                Safety Landyard

**Optional items: (Include in Rider S810 T Sku)**

Smart Heart Rate Monitor        Smart Speed Sensor        Smart Cadence Sensor

**Optional items:**

Sport Mount            Rider S810 Protective Case        Conversion Kit for G

# Touch Screen



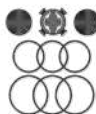- Swipe up from the very bottom of the screen to return to the Home Page from any screen.

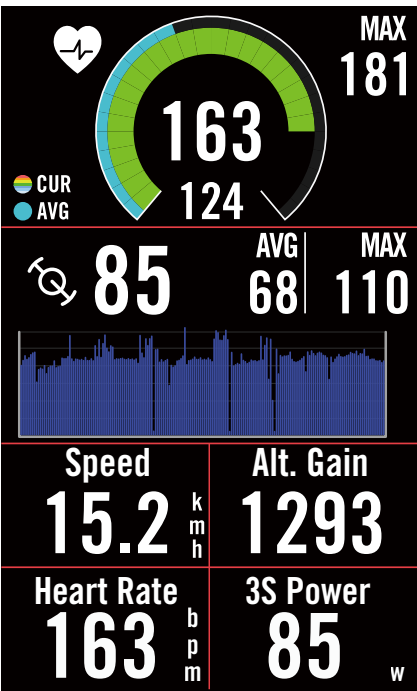- In Cycling mode, swipe left or right to switch data pages.



- In meter page, long press to edit the cycling grid and scroll up and down to select desired cycling data.
- Select ✔ to confirm selection.
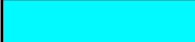- Select ↰ to return to the previous page.



- In meter page, single tap to show the Quick Status page and customize if you like.
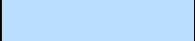
# GUI Display



## Outer Rings

| | |
|---|---|
| ▨ | Average value |

## Inner Rings
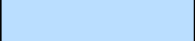
| | |
|---|---|
| ▨ | Current value when using a Speed or a Cadence sensor. |
| ▨▨▨▨▨▨▨ | Current value when using a Heart Rate Monitor or a Power sensor. The colors will change by different zones, which are based on the settings |



## Bar Chart for Di2/E-Shifting

| | |
|---|---|
| ▨ | Current gear of the Cassette. |
| ▨ | Current gear of the Crankset. |

## Bar Chart for Connected Senors

| | |
|---|---|
| ▨ | Current value when using a Speed or a Cadence sensor. |
| ▨▨▨▨▨▨▨ | Current value when using a Heart Rate Monitor or a Power sensor. The colors will change by different zones, which are based on the settings |

**NOTE:**

Please go to page 51/52 to see more details for setting Heart Rate Zone and Power Zone.

Please go to page 5 to see how to edit data grids in meter page.

Select "Graph" in the grid category, if you want to display the data in graphic mode.

Please go to page 33 to see more information for data grids settings.

Some page options including 8B, 9B, 10, 11,and 12 are not allowed to display graphics.

# Quick Status

See key statuses while riding, such as sensor & smartphone connection, GPS signal, and individual battery status of paired sensor, etc…Users can also see if device is recording at a glance by the flicker.
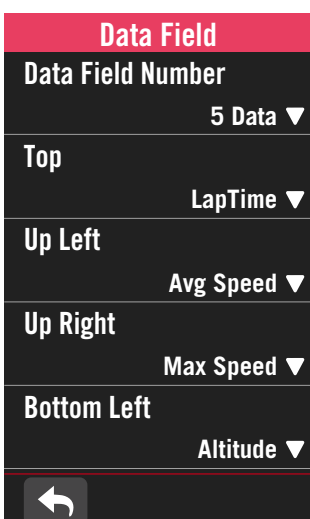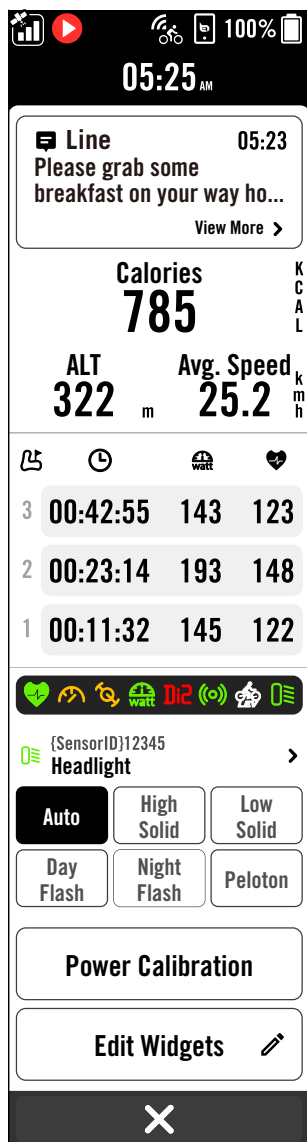


1. Single-tap the screen on meter page to open the Quick Staus menu.
2. The recording icon will flicker with red and gray flashes while the device is recording.
3. You can customize the quick status by selecting diiferent data for each grid. Tap ⚙ in the home page > **Bike Settings** > select a bike profile > **Ride Config** > **Quick Status** > **Data Field**.
4. Color of the top grid will change by different zones, which are based on the settings.

**Recording Status**

| | |
|---|---|
| ⏸ | Recording Pause |
| ▶ | Stop / Not Recording |
| ▶ | Recording |

**Sensors Battery Status**

| | |
|---|---|
| 🟥 | Critical |
| 🟨 | Good |
| 🟩 | New |

**Active App connecting Status**

| | |
|---|---|
| 📱 | Connected |
| 📵 | Disconnected |

**NOTE:**

Only paired sensors will show on the Quick Status Menu.

If there is no battery icon next to the sensor names, it means that the sensor has no signal.

# Status Icons

| Ícone | Descrição | Ícone | Descrição | Ícone | Descrição |
|---|---|---|---|---|---|
| 🔒 | Screen Bloqueado | | Estado Desligado | ➕ | Aumentar |
| ▶ | Gravação | ❤ | Sensor de frequência cardíaca | ➖ | Reduzir |
| ⏸ | Pausa da Gravação | | Sensor de velocidade ativo | 🖐 | Mover o mapa |
| 100% 🔋 | Bateria do Dispositivo | | Sensor de cadência | 📍 | Localização |
| | GPS Desativado | | Sensor combinado | N | Modo de bússola |
| | GPS Desligado / Sem Sinal (não fixo) | watt | Medidor de potência ativo | | Modo de direção |
| | Sinal Fraco | Di2 | Di2 | 🏁 | Destino |
| | Sinal Forte | | Mudança Eletrônica | ↔ | Distância do percurso |
| | Atualização de Dados de GPS | ((o)) | Radar | | Ganho de Altitude |
| | LiveTracking | STEPS | E-bike (Shimano) | | Secção de Subida |
| | Telefone Desconectado | LEV | E-bike (LEV) | # ▲ | Climb Challenge |
| | Telefone Conectado | | Luz | ⇄ | Passeio de volta |
| | Viagem diária | 🎤 | Pesquisa por voz | | ID de entrada |
| | Estrada | 🗑 | Eliminar | | Ligado |
| | Indoor | | Controlo do Passo do Treino | ➕ | Adicionar Novo |
| | MTB | | Adicionar um alnete | ⓘ | Informação |
| | Gravel | 🔴 | Ponto de término do percurso | | Treinos/Localização guardados |
| | Ciclocross | 🟢 | Ponto de partida do percurso | | Histórico |
| | Rolo Eletrônico | ☆ | Favorito | | Rota |

# Step 1: Charge your Rider S810

Charge the Rider S810 battery for at least 4 hours.
Unplug the device when it is fully charged. You may see the battery icon 🔋 blinking when the battery is very low. Keep the device plugged in until properly charged.
The temperature suitable for charging battery is 0°C ~ 40°C. Beyond this temperature range, charging will be terminated and the device will draw power from battery.



**At least 4 Hours**
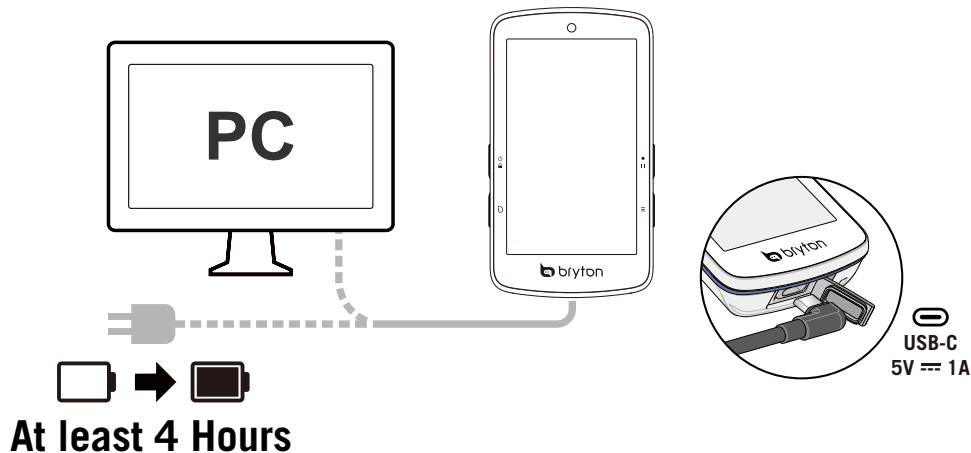
# Step 2: Turn On Rider S810

Press ⏻ to turn on the device.

# Step 3: Initial Setup

When powering on the Rider S810 for the first time, follow the instruction to complete setup.
1. Select the display language.
2. Choose the units of measurement.
3. Download Bryton Active app and pair the Rider S810 with your cellphone.
4. Go through the starting tutorial before riding.
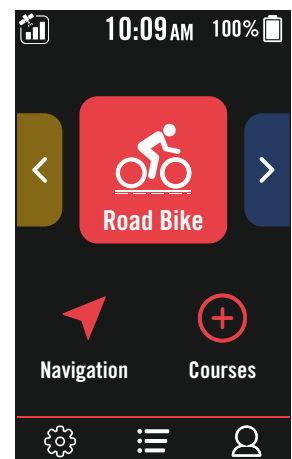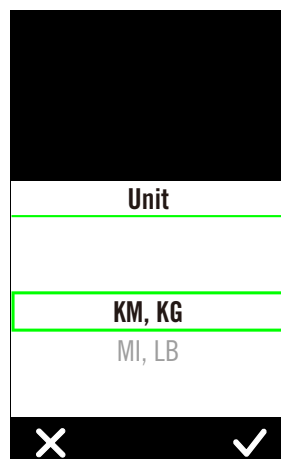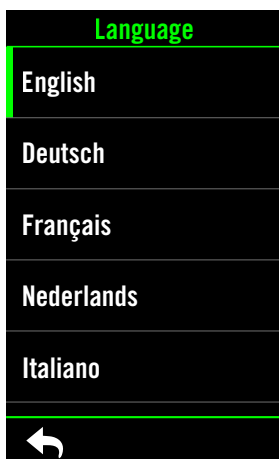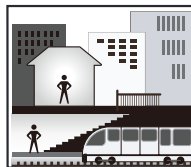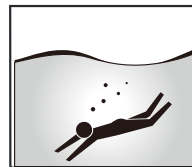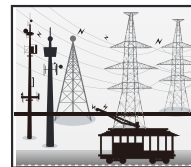
## Step 4: Acquire Satellite Signals

Once the Rider S810 is turned on, it will automatically search for satellite signals. It may take 30 to 60 seconds to acquire signals for first time use.

- The GPS signal Icon ( 📶 / 📶 ) appears when GPS is fixed.
- If GPS signal is not fixed, a ✕📶 icon appears on the screen.
- If GPS function is disable, a 📡 icon shows on the screen.

Please avoid obstructed environments since they might affect GPS reception.

| | | | | |
|---|---|---|---|---|
| Túneis | Salas interiores, edifícios ou espaços subterrâneos | Subaquático | Fios de alta tensão ou torres de televisão | Locais de construção e tráfego intenso |

## Step 5: Ride with Rider S810

After the "Satellite Acquired" message pops up, enter the Bike 1, Bike 2 or Bike 3 cycling page and enjoy your ride in free cycling mode.
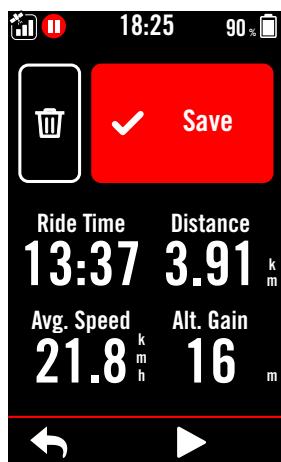
**Free ride (without recording):**
In cycling mode, measurement starts and stops automatically in sync with the movement of the bicycle.

**Start an exercise and record your data:**
1. Press ⏯ to start recording, press ⏯ again to pause recording.
2. Choose to Discard or Save the result to end riding.
3. Choose ↩ to go to the meter page to see your cycling data. Then tap on 🔳 to go back to the previous page.
4. Tap on ▶ or press ⏯ to continue recording.
5. Rider S810 supports resume recording when the ride was interrupted. You can turn off the computer to save battery when taking a break and turn it back on to resume recording.
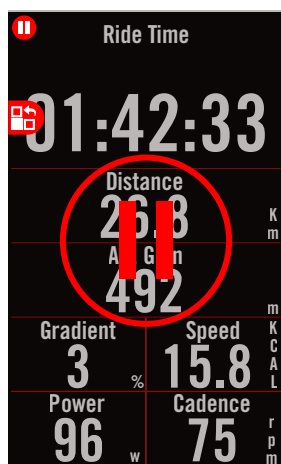
# Step 6: Share Your Records

## Connect Rider S810 to PC

a. Connect Rider S810 to PC by using Bryton's original USB cable.
b. The folder will popup automatically or find the "Bryton" disk in the computer.

## Share Your Tracks to Brytonactive.com

**1. Sign up on Brytonactive.com**
   a. Go to https://active.brytonsport.com.
   b. Register for a new account.

**2. Connect to PC**
   Turn on your Rider S810 and connect it to a computer by USB cable.

**3. Share Your Records**
   a. Click "+" in the right upper corner.
   b. Drop FIT, BDX, GPX file(s) here or Click "Select files" to upload tracks.
   c. Click "Activities" to check uploaded tracks.

## Share Your Tracks to Strava.com

**1. Sign up / log in on Strava.com**
   a. Go to https://www.strava.com
   b. Register for a new account or use your current Strava account to log in.

**2. Connect to PC**
   Turn on your Rider S810 and connect it to your computer by USB cable.
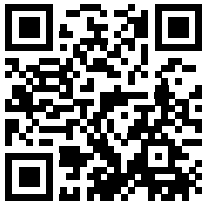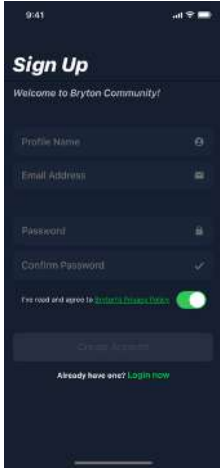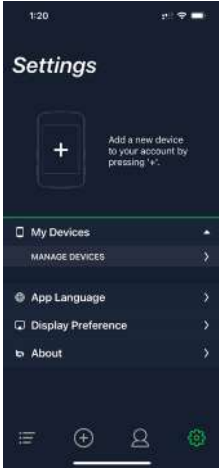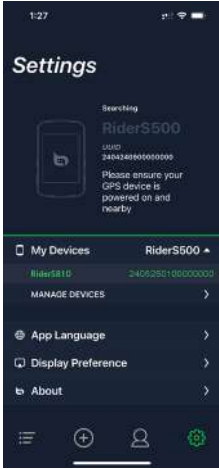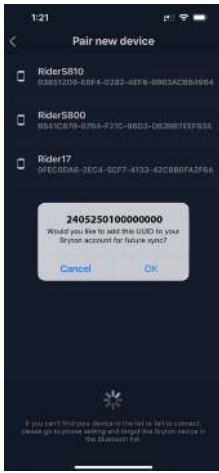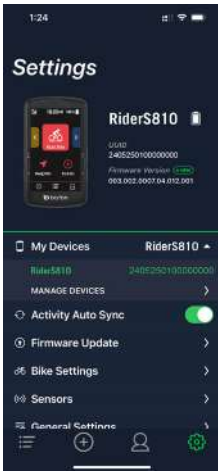
**3. Share Your Records**
   a. Click "+" on the top right corner of the Strava page and then click "File".
   b. Click "Select Files" and select FIT files from Bryton device.
   c. Enter information about your activities and then click "Save & View".

## Auto Sync Tracks to Bryton Active App

No more uploading tracks manually after riding. Bryton Active App automatically syncs your track after pairing with your GPS device.

## Sync via BLE

| | |
|---|---|
| **a.** Scan QR code below to download Bryton Active App or go to Google Play / App Store to search Bryton Active App. Then, log in or create an account. | **b-1**. Go to Settings > My Device > Device Manager > + > Rider S810 to add your GPS device. |
|  |  |
| **b-2**. Check if the UUID shown on app is the same as your device. Select "OK" to confirm adding this device. If the UUID does not match, press Cancel and try again. | **c.** Successfully added! Turn on Activity Auto Sync. Now new tracks will be automatically uploaded to Bryton Active App. |
|  |  |

**NOTE:**
Bryton Active App syncs with Brytonactive.com. If you already have a brytonactive.com account, please use the same account to log in to Bryton Active App and vice versa.

# Firmware Update

## Bryton Update Tool

Bryton Update Tool is the tool for you to update GPS data, firmware and download Bryton Test.

1. Go to https://www.brytonsport.com > Support & Download and download Bryton Update Tool.
2. Follow the on-screen instructions to install Bryton Update Tool.
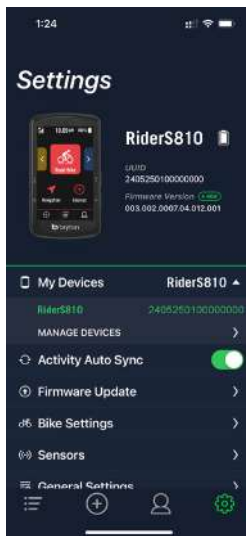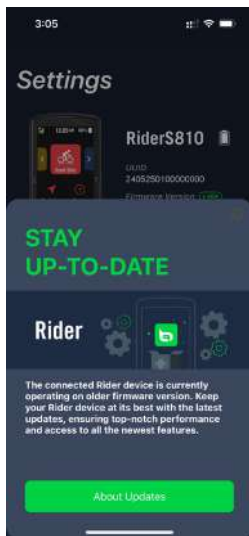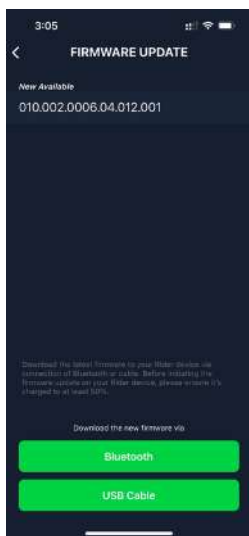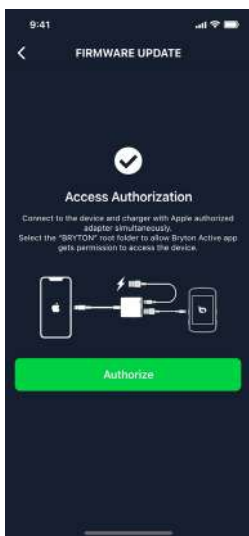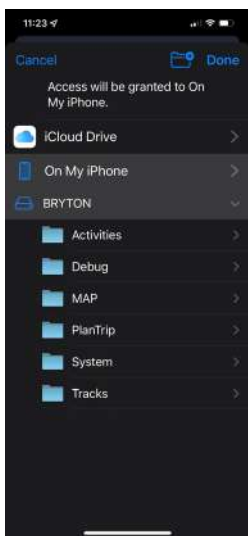
## Update Firmware

Bryton releases a new firmware version on an irregular basis to add new functions or fix bugs. We highly recommend that you update the firmware once the latest version is available. It usually takes a while to download and install the firmware. Do not remove the USB cable during updating.

## Update via Active app
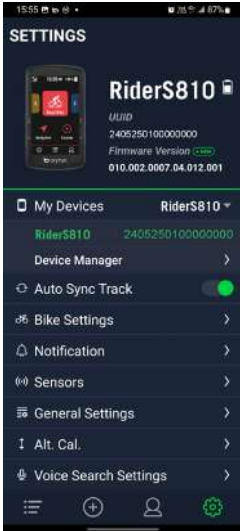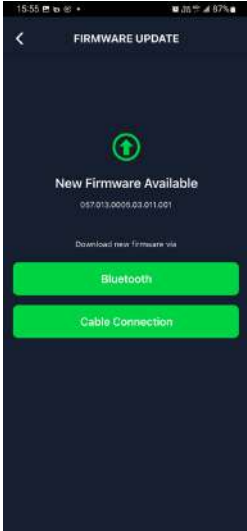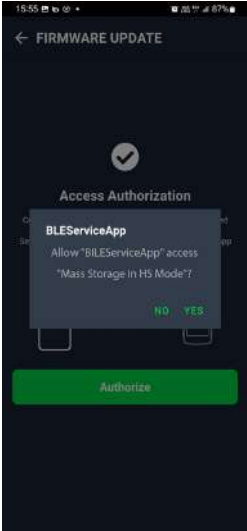
You can choose to update the firmware via bluetooth or with a Bryton USB cable.

## For iOS phone

| | |
|---|---|
| **a**.Connect the Rider S810 to your phone via Bluetooth. | **b**. The update message will pop up automatically, select **Update** to start the update. Or select **Firmware Update** to start updating. |



**c**. Choose to update the firmware with the Bryton cable or Bluetooth. You will need a **USB-C to USB Adapter** with Bryton original cable. Make sure the smartphone is connected to the device. Select the **"BRYTON"** root folder to allow Bryton Active app gets permission to access the device for downloading new firmware.



**NOTE:** You need a lightning to USB adapter with Bryton original cable.

## For Android phone

| a.Connect the Rider S810 to your phone via Bluetooth. | b. The update message will pop up automatically, select **Update** to start the update. Or select **Firmware Update** to start updating. |
|---|---|
|  |  |

**c**. Choose to upadte the firmware with Bryton cable or with Bluetooth. If you are using the cable, please give the app permission to access phone storage. You will need a USB-C to USB Adapter with Bryton original cable.

# Course

## Route

### Create Track

Rider S810 provides 3 ways to create tracks:
1. Plan trip via Bryton Active App.
2. Import routes from 3rd party platforms.
3. Auto sync routes from Strava, Komoot and RideWithGPS.

### Plan Trips via Bryton Active App
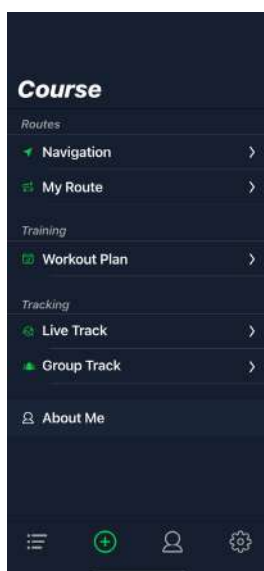


1. In Bryton Active App, select **Course > My Route > Plan trip** to set a Start point and Destination by tapping on the map or inputting address in left Search Bar.
2. Tap on "**Save**" to upload the planned trip to **My Route**.
3. Go to **My Route** and select the route. Click the ... in the upper right corner to download the route to your Bryton device.
4. In the Device Main Menu, Click **Navigation > Route** to find the route and tap on ▶ to start following the track.

### Import routes from 3rd-Party Platforms
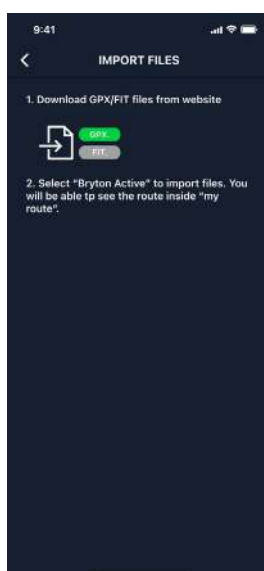


1. Download routes in gpx file from 3rd party platform.
2. Select **Open in Active** (for iOS) or Open files with Bryton Active App (for Android).
3. Select **Course > My Route** in Bryton Active App.
4. Here you can see the routes imported to the App.
5. Select the upper right icon ... to download the route to your device.
6. In the Main Menu of the device, navigate to **Navigation > Route**, find the route and tap on ▶ to start following the track.

## Auto Sync routes from Strava, Komoot, RideWithGPS
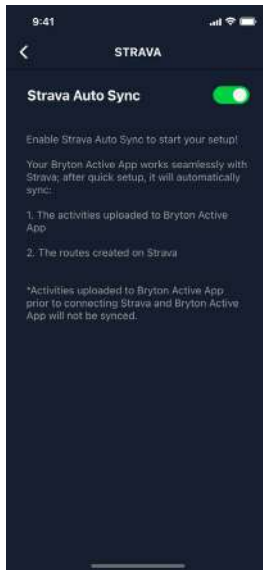


1. Enable STRAVA / Komoot / RideWithGPS auto sync in the **Profile > 3rd Party account link** tab.
2. Create/modify routes in these platforms and save them as public.
3. Go to **Course > My Route** to select the route you want to download.Click the "**...**" in the upper right corner to download the route to your Bryton device.
4. In the Device Main Menu, Click **Navigation > Route** to find the route and then tap it to start following the track.

## Add POI

After setting up your POI and Peak info, you can check the distance to your next POI or Peak in Route mode, allowing you to make the right decision based on your status and stay motivated along the way.
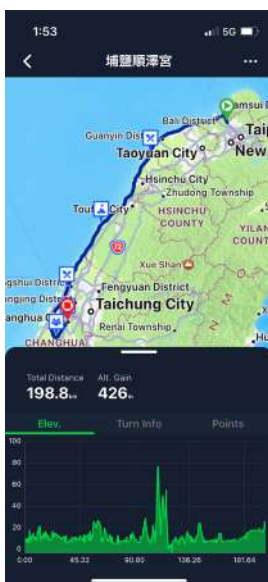


1. Go to **Course > My Routes** in Bryton Active App.
2. Select the route you would like to add POIs.
3. Press POI at the bottom, then click **+ Add Point**.
4. Choose a **POI** type by selecting the icon. Slide your finger on the bar below to place the POI anywhere along your route.
5. Press save and name the POI after confirming the position.
6. Click the **...** in the upper right corner to download the route to your Bryton device.
7. In the device Main Menu, find **Navigation > Route**. Find the planed route and press ▶ to start following the track.

**NOTE:**
1. Please pair the device with your smart phone before downloading the route to the device.
2. To view on-device POI info, please add the related POI data fields to the data pages. It is also recommended to put these data fields in larger grids to see complete information.

# Route Guidance

After downloading routes to the Rider S810, you are able to follow the route guidance. Rider S810 supports advanced features to help you stay on track and get the most out of your rides, such as auto-rerouting, on-screen POIs, and reverse downloaded routes.

1. Select **Navigation > Route**, then Find the planned route in the list.
2. Press ▶ to start riding.

# Reverse Route

Rider S810 supports the reverse route feature, swapping the endpoint for the start point. You can follow a route in any direction you want to.
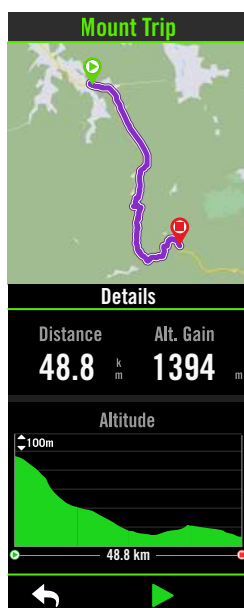
1. Select **Navigation > Route**, then select a disred route in the list.
2. Swipe to the bottom of the page and press **Reverse Route**.
3. Press ▶ to start the navigation.

## Navigate to the Start/Nearest Point on route

When you start to follow a route, Rider S810 will ask if you want to navigate to the start or not. Once you get on the route, Rider S810 will guard you to the route finish.

Press " **V** " to receive the guidance to the start.



Press " **Cancel** " to receive guidance to the nearest point on route.
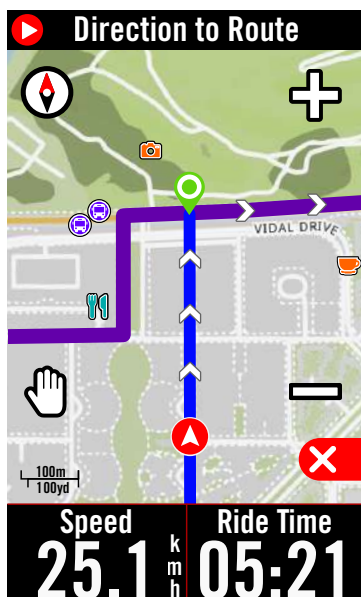
# Climb Challenge 2.0

When you approach a climb, the Rider S810 will change to the Climb Section page, providing an overview of a route's climb segments. The Climb Challenge screen shows a color-coded altitude map based on the gradient, distance remaining, and ascent remaining, giving you the climb information at-a-glance.

You can disable the auto switch in ⚙ **Settings > Bike Settings > Bike Profile > Ride Config > Auto Features > Climb Page Switch**.
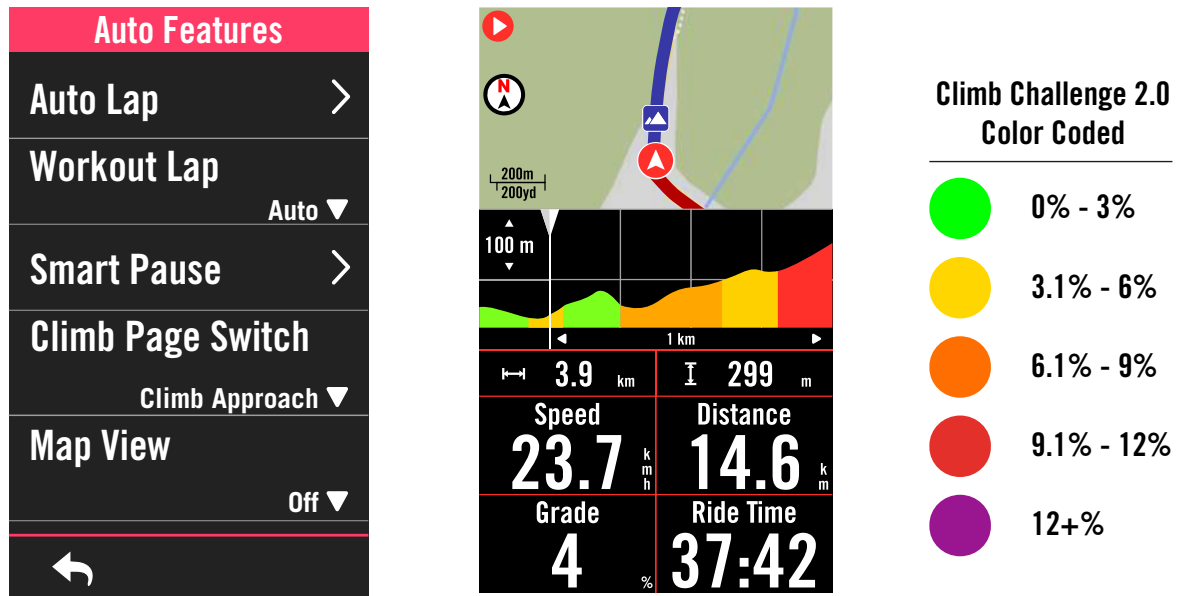
With Climb Chllenge 2.0 enabled, Rider S810 will automatically detect all climbs ahead, and show the notification in advance. You can also change the setting for only detect the Medium and above climbs or turn it off in ⚙ **Settings > Bike Settings > Bike Profile > Ride Config > Climb Challenge 2.0**
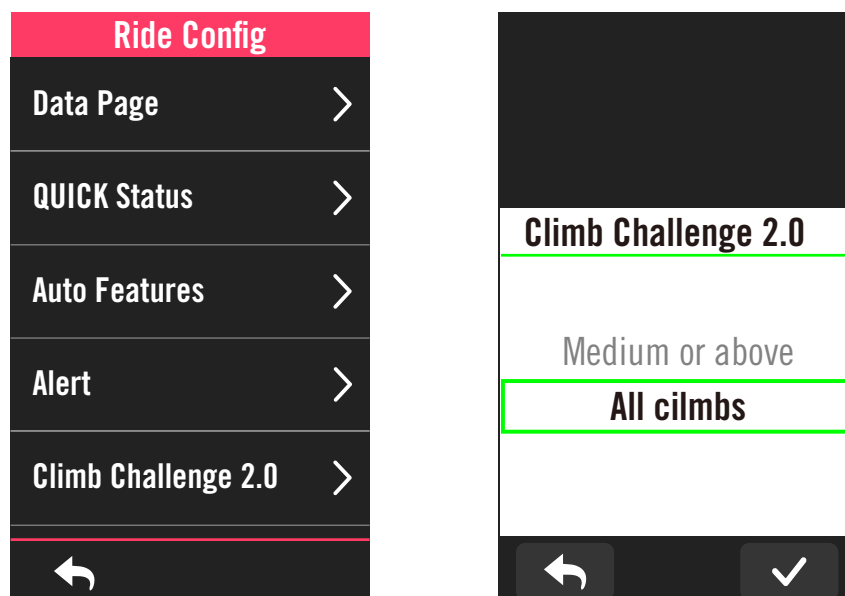
# Workout

## Create a Workout

Rider S810 provides 2 ways to create workout:
1. Plan workout via Bryton Active App.
2. Import workout from 3rd party platforms.

## Plan workout via Bryton Active App



1. In Bryton Active App, select **Course > Workout Plan > My Workout > Plan Workout** to plan a training workout by selecting interval types and enter details.
2. Select a planned workout below and click "…" in the top right to download the workout to the device.
3. You can also arrange your workout plan for a long period by selecting **Course** > **Workout Plan** > **Training** > click "**+**" to add planned workouts on different dates.
4. Click "…" in the top right to sync the workout plan for the next 7 days.

## Import routes from 3rd-Party Platforms
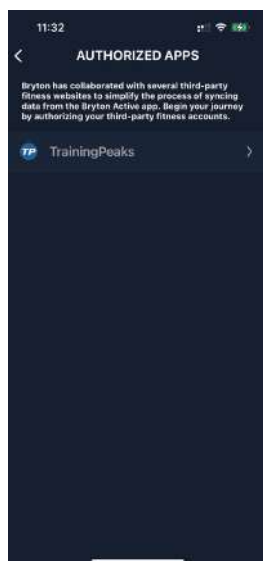


1. Create a workout plan on TrainingPeaks website.
2. Enable TrainingPeaks auto sync in the Profile tab > **3rd Party Connection** to establish a link with your Bryton account in the .
3. Or you can also add workouts on the calendar from My Workout by entering **Course > Workout Plan > Training > "+"**, click Copy from My Workout and select the desired workouts.
4. Click "…" in the top right to sync the workout to the device for the next 7 days.

# Train with a Workout plan

**Workout**

Today — This week

Level 4, FTP TEST _Short
03:15:00/7 Steps — Today

Level 6, Intensive Anaerobic
01:30:00/13 Steps — Today

L6 Intensive Anaberoic

Overview — Description

| Step 1/13 | Warm up |
| Time | 00:03:00 |
| Power | 92-115 Watt |
| Step 2/13 | Activity |
| Time | 00:03:00 |
| Power | 191-196 Watt |
| Step 3/13 | Activity |
| Time | 00:01:00 |

2/13

191 watt 196  85 ⟳ 100
**201** w  **92** rpm

⏱ **00:01:15**

| 3s PW | Heart Rate |
| **201** w | **146** bpm |
| Interval Count | Total Work |
| **2/13** | **51** KJ |

1. Select **Courses** in the home page.
2. Select **Workout**.
3. You can see the workout plans, which are synced from the app. Or select ⌕ to view all the workouts that you have saved.

## Delete Workout
1. To delete the workout, click 🗑 then select the workout(s) and click 🗑 again to delete.
2. Select ✓ to confirm.

## Start Workout
1. Select the workout you would like to start with.
2. Select ▶ to be ready for the workout, then press ⏸ button to start the workout.

## Stop Workout
1. Press ⏸ to pause workout, then select ▶ to return to workout or select ✓ to save the record or click 🗑 to delete the record.
2. Choose ↩ to go to the meter page to see your cycling data. Then tap on 🔄 to go back to the previous page.

**NOTE:**
After you synced the workout plan from the app for the 7-day period, the workouts will disapper when the date passed. If you want to save a particular workout to the Rider S810, please download the workout from the app to the device.

# Smart Trainer

## Set up a Trainer

### Trainer Settings

**NAME/ID**
21022

**TYPE**
ANT+

**Wheel Size**
2096 mm ▼

**Bike Weight**
7.8 kg ▼

**Remove** 〉

1. Select **Courses** in the home page.
2. Find **Smart Trainer**.
3. Tap ✚ to connect a smart trainer to Rider S810.

**Edit Information**
1. After connected smart trainer to the Rider S810, it will switch to the **Smart Trainer** page.
2. Go to **Trainer Settings** to enter Wheel Size, Gear Ratio, and Bike Weight to set up a smart trainer profile.

**Remove Trainers**
1. Go to **Trainer Settings**.
2. Tap **Remove** then click ✓ to confirm.
3. If you stop paddling for a while, the smart trainer will automatically disconnect.

## Virtual Ride

In Virtual Ride, Rider S810 will work seamlessly with most smart trainers and can simulate planned routes from the Bryton Active App.

### Mount Hotham Trip

### Details

| Distance | Alt. Gain |
|----------|-----------|
| 153 k | 1056 |
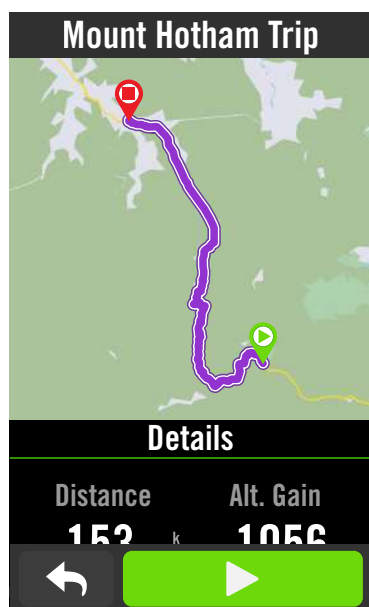
1. Select **Courses** in the home page.
2. Select **Smart Trainer > Virtual Ride**.
3. You can view all the planned routes that you have downloaded on the device.

**Ride on a Route**
1. Select the route you would like to start with.
2. Tap ont ▶ to start riding.

**End Virtual Ride**
1. Press ❌ to stop the ride.
2. Select **Save** to save the record.
3. Select **Discard** to discard the record.
4. Select ✓ to confirm.

**Delete Routes**
1. To delete the route, Click 🗑 and select routes you would like to remove.
2. Select ✓ to confirm.

**NOTE:** To see how to create tracks: 1. Plan trip via Bryton Active App. 2. Import routes from 3rd party platforms. 3. Auto sync routes from Strava, Komoot and RideWithGPS. Please go to Page16.

## Smart Workout

Training plans can be built with the Bryton Active App and downloaded directly to the Rider S810. With ANT+ FE-C support, the Rider S810 will communicate with your smart trainer to simulate the resistance from the training plan.
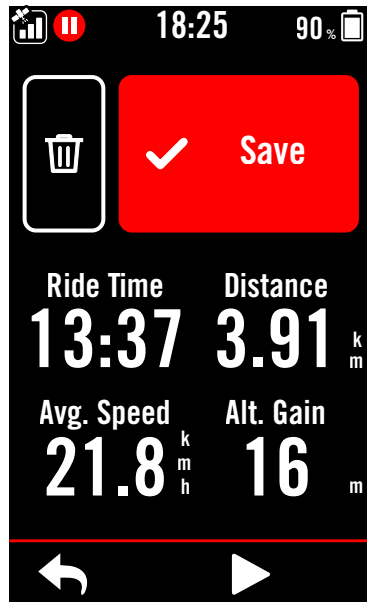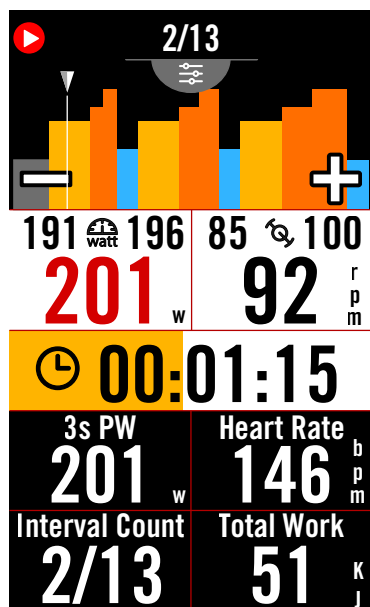
1. Select **Courses** in the home page.
2. Select **Smart Trainer > Workout**.
3. You can see the workout plans, which are synced from the app. Or select 🗂 to view all the workouts that you have saved.

**Delete Workout**
1. To delete the workout, click 🗑 then select the workout(s) and click 🗑 again to delete.
2. Select ✓ to confirm.

**Start Workout**
1. Select the workout you would like to start with.
2. Select ▶ to be ready for the workout, then press ●❙❙ button to start the workout.

**Stop Workout**
1. Press ●❙❙ to pause workout, then select ▶ to return to workout or select ✓ to save the record or click 🗑 to delete the record.
2. Choose ↩ to go to the meter page to see your cycling data. Then tap on 🔳 to go back to the previous page.

## Resistance

| Speed | | Heart Rate | |
|---|---|---|---|
| **32** | k m h | **143** | b p m |
| Cadence | | Power | |
| **75** | r p m | **210** | w |

Ride Time
**00:39:24**

Time
**14:56:28**

**Resistance**
**─ 80 +** %

1. Select **Courses** in the home page.
2. Select **Smart Trainer > Control > Resistance**.

**Start Resistance Workout**
1. djust resistance level by clicking ✛ / ━ .
2. Select ▶ to start training.
3. Resistance training will automatically stop once you start Virtual Ride or when the Smart Trainer lost connection.
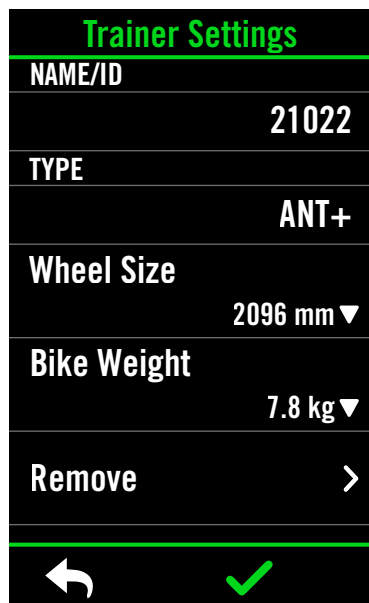
## Power

| Speed | | Heart Rate | |
|---|---|---|---|
| **32** | k m h | **143** | b p m |
| Cadence | | Power | |
| **75** | r p m | **210** | w |

Ride Time
**00:39:24**

Time
**14:56:28**
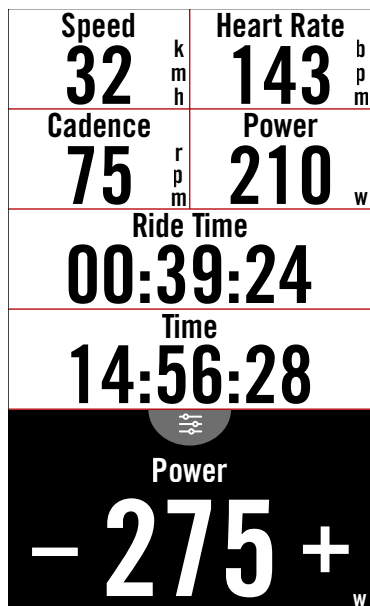
**Power**
**─ 275 +** w

1. Select **Courses** in the home page.
2. Select **Smart Trainer > Control > Target Power**.
3. Switch to different zones by tapping 🎚 or adjust resistance level by clicking ✛ / ━ .
4. Tap on ▶ to start training.
5. Power training will automatically stop once you start Virtual Ride or the Smart Trainer lost connection.

**NOTE:**
You need to connect a smart trainer to the Rider S810 before having access to the Virtual Ride, Smart Workout, Resistance, and Power Workout.

# Group Ride

## Join Group Ride

The Group Ride needs to work with the Bryton Active app.
Please make sure you pair the Rider S810 with the Bryton Active app on your smartphone.
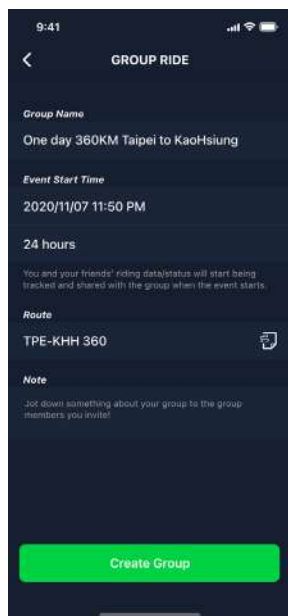
### Create Group Ride

1. Select **Course** on Bryton Active app.
2. Select **Group Ride**.
3. Tap on **Create New Group**.
4. Enter all the details for the group ride.
5. You will need to have an existing route in the Bryton Active app. Go to Page 16 to see how to create a route.
6. Complete creating group ride.
7. Turn on the Rider S810 and enter **Menu** and select **Group Ride**.
8. Press ▶ to start riding.

### Enter Group Code

9. Paste the code in the blank then press **Join**.
10. Turn on the Rider S810 and enter **Menu** and select **Group Ride**.
11. Press ▶ to start riding.

## Group Chat

Rider S810 and Bryton Active app allow you to send messages to the members in the group.
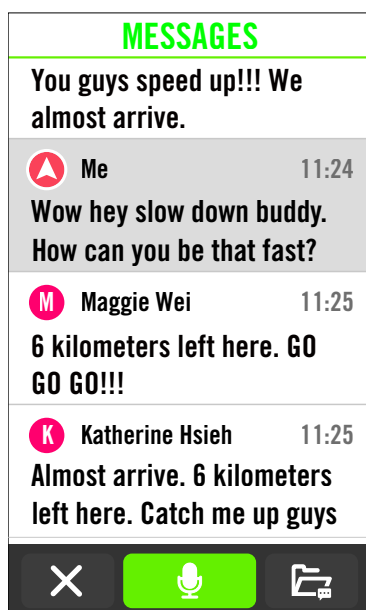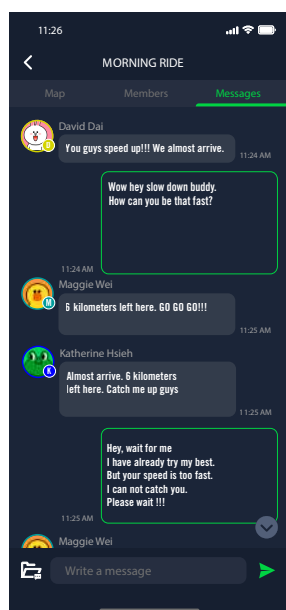
### On App

1. Tap on Chats, then type a message or click 🗂 to send a quick response.
2. 2. You can select **Edit** on the top right corner to modify the quick responses.

### On Rider S810

1. Switch to Chats page, then press 💬 to enter messages.
2. You can use the microphone to input message with speaking. After the device receive your message, press ✓ to confirm and send out the message. Or press ✗ to re-input the message.

# Live Track

Share your real-time location with friends and family using the Live Track feature. Before using, please ensure that Rider S810 is already recording a ride by pressing the record button and then open the Bryton Active app on our smartphone. This feature will not work properly if the device is not recording.
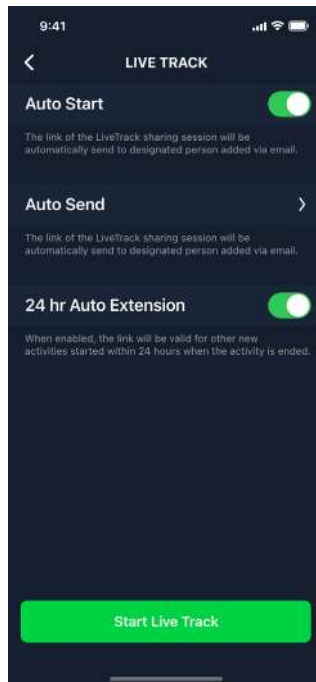
**Activate Live Track**
1. Select **Course** on the Bryton Active app.
2. Select **Live Track**.
3. Toggle the **Share Location** status or press the **Start Live Track** button.

**Note:** Once Live Track is successfully activated, you can find the Live Track icon appears in the Quick Status Menu.

**Auto Send Live Track Link**
1. Select Auto Send and toggle the activation status.
2. Fill out the email address on the column of the Share the activity with and you can type in a custom message.
3. Hit ➕ sign to confirm adding the email.

**Manually Share Live Track Link**
Press the 🔼 icon in the bottom left-hand corner.
Select the contact you would like to share with.

**24-Hour Auto Extension**
When you enable this option, the live track link will remain valid for another 24 hours after the ride has ended. With this link, anyone you share with can still view your last or ongoing activity.

If you start a new ride within this 24-hour window, the link will display the new ride instead of the old one. This is useful when embarking on a multi-day bike trip or when sharing your daily commute, making it more convenient for family or friends to use the same link to track your progress.

**End Live Track**
When you end your ride, the Rider S810 will display a "Live Track ended" notification to let you know your ride is no longer being tracked. You can also end the live track from the Bryton active app by pressing the End Live Track button at the bottom.
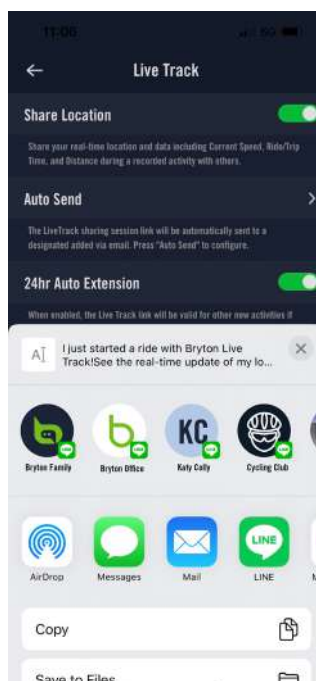
# Navigation

With connection to the internet, you can use your voice to search for locations on the Rider S810 in over 100 languages. The voice search features offers a faster, more intuitive and more convenient to find addresses or POIs.

## Voice Search

Select **Navigation** in the Rider S810 home page.

**Search Location by Voice Search**
1. Tap the icon 🎤 to activate voice search.
2. Single tap on the icon 🎤 and say keywords, names, or addresses of a desired location.
3. Tap the middle icon again to stop receiving voice.
4. After processing search, pick the most relevant spot.

**Adjust to More Accurate Position**
1. After choosing a relevant spot, tap and hold on blank space to move the map for an accurate location.
2. Use ➕ / ➖ to adjust map size.

**Generate a Route**
1. Click 🧭 to view the route to your destination.
2. Tap on ▶ to start navigation.

### Relevant Results

📍 150 m  **Costco Wholesale**

📍 162 m  **Costco Business Center**

📍 513 m  **Costco Pharmacy**

📍 683 m  **Le P'tit Laurent**

# Pin a Location

Drag the map to pin location
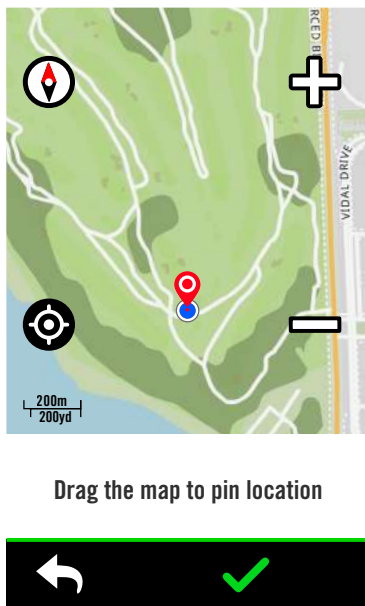
Select **Navigation** in the Rider S810 home page.

**Locate Your Current Position**
1. Before locating your position, make sure you locate satellite.
2. Tap on ⊚ to locate your current position.

**Navigate by Dropping a Pin**
1. Select 📍 and manually pin a desired spot on the map.
2. Tap and hold on blank space to move the map for accurate location.
3. Use ✚ / ▬ to adjust map size.

**Generate a Route**
1. Select 🧭 to view the direction to your destination.
2. Tap on ▶ to start navigation.

# Navigate on Bryton Active App
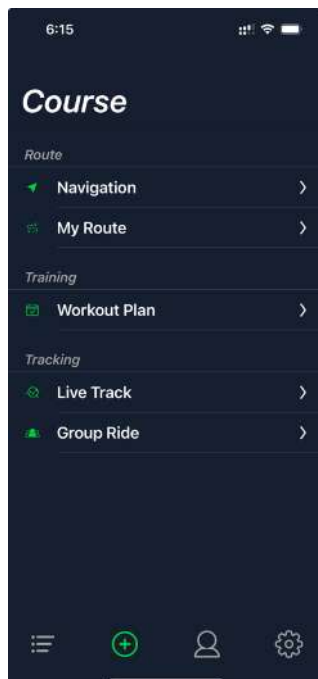
1. Pair the Rider S810 with Bryton Active App, select **Course > Navigation.**
2. Input keywords or address or POI type in the search bar then click 🔍 .
3. Select a result from the search list.
4. Confirm the location then click **Plan Route** to see the route.
5. Click **Download to device** to download the route to the device to start the navigation.
6. Rider S810 will start following the route on the screen.

# Retrace

When you want to return back to your starting location, the Rider S810 can help you double back with just a press of a button at any point during a ride, using the same path you took to retrace your steps and providing turn-by-turn route guidance!

1. When recording, swipe up to return to the **Home Page**. Go to **Courses > Route > Retrace Ride**.
2. The device will generate a route for leading you back to the starting point via the exact same path you took at first. Follow the arrows to the right direction.



---
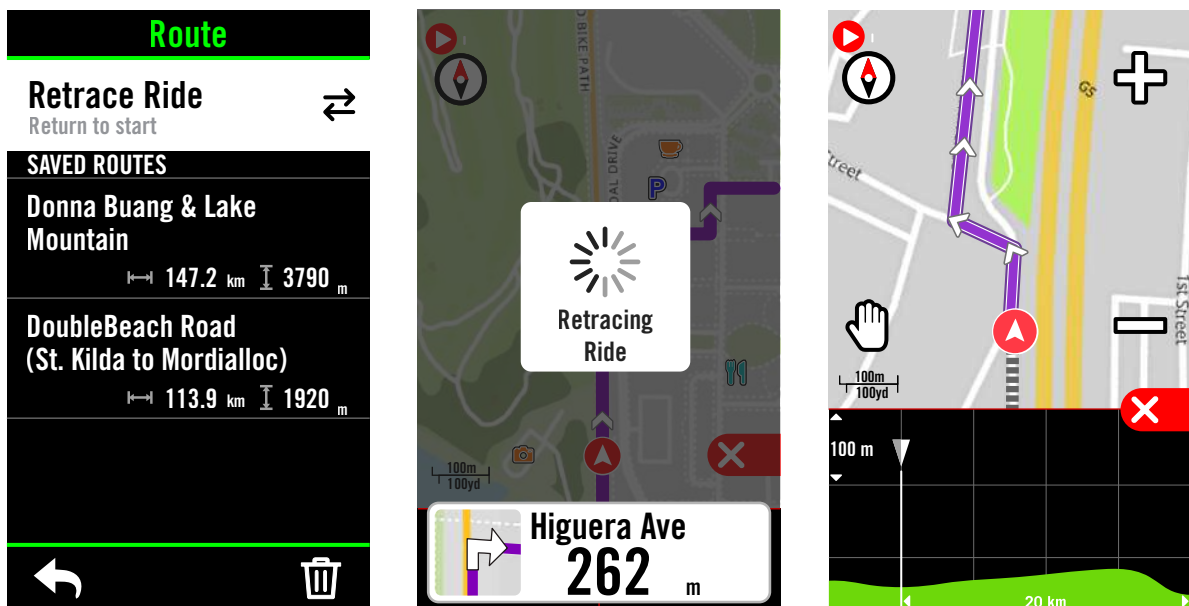
**NOTE:**
You need to start recoding a ride before using retrace feature.

# Download Maps

The Rider S810 comes with preloaded maps of major regions around the world.
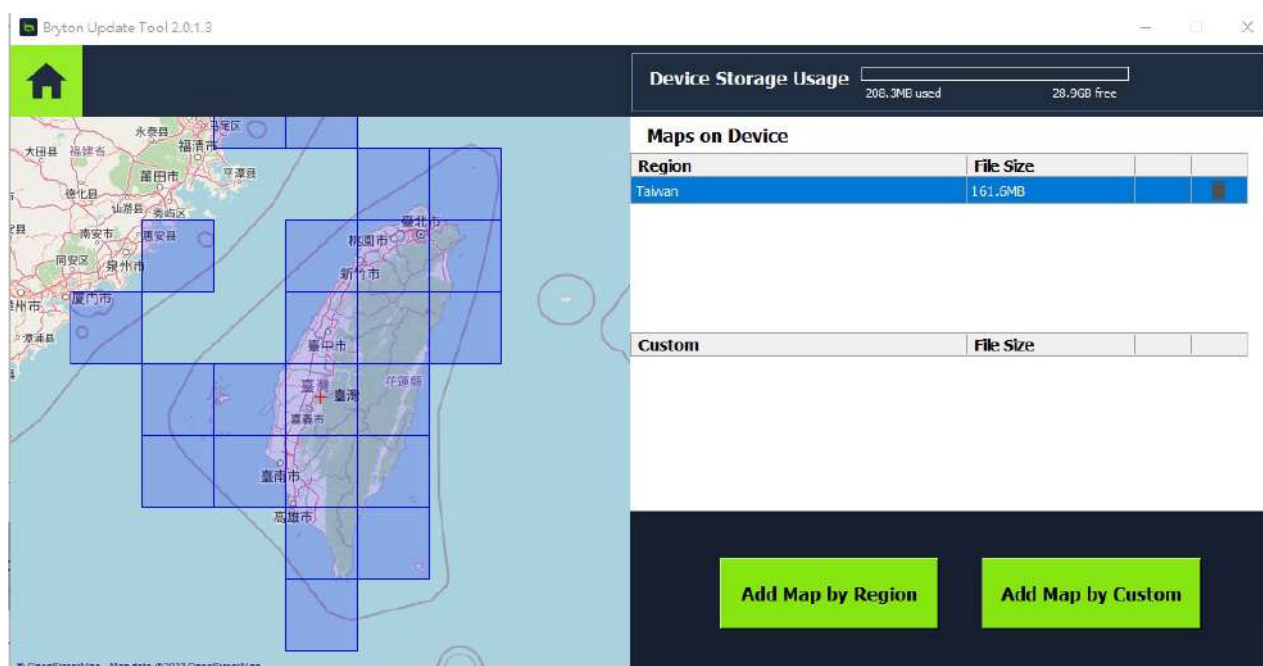


**Download the desired map via Bryton Update Tool.**
Please do not rename the file(s) or change the file extension(s) in the unzipped folder, as this may cause errors to occur.

1. Run the Bryton Update Tool on your computer.
2. Connect the S810 to your PC via Bryton original USB cable.
3. Wait until S810 is shown on the screen and then select "Update Map". Here you will see the maps installed or downloaded on your device.
4. Select "Add Bryton Standard Map" if you want to download other maps by country or region.
5. Then choose the area you want to download.
6. Select "Custom" to circle the area you need instead of downloading the whole map of a country or region.
7. Then select "Save to device" to download. You have to name it before you download the selected area.

> **NOTE:**
> Please make sure the storage space of your device is enough space to download the maps you select.

# Results

You can view recorded activities on the Rider S810 or delete records to free more storage capacity of the device.

## View Records
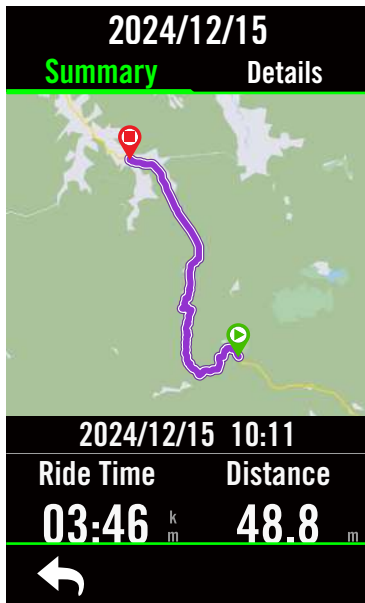


1. Select ☰ in the home page.
2. Pick a record to view details.
3. Tap **Details** or **Summary** to see different data.

## Edit Record



1. Select ☰ in the home page.
2. Tap on 🗑 to enter the delete page.
3. Choose the record(s) then tap 🗑 to delete the record.
4. Press ✓ to confirm.

# Settings

In Settings, you can customize Bike settings, Display, Sensors, Notification, System, Altitude, Navigation settings, and more. You can also find firmware information in this section. In addition, you can customize most of the device settings via the Bryton Active app.

## Bike Setup

Rider S810 supports up to 3 bike profiles, it is easier than ever to customize your device for any type of setup. Settings for each profile can be completely customized such as GPS system, data fields, and auto features.

### Ride Config
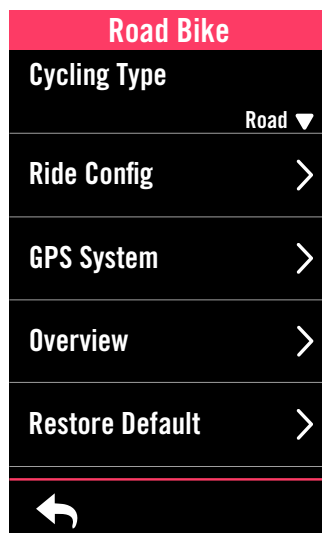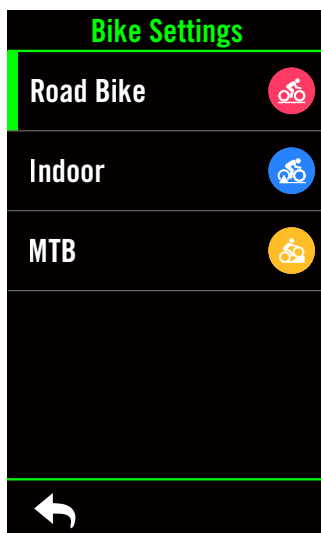
Select ⚙ **Settings > Bike Settings**.

**Edit Ride Config**
Select Cycling Tyap to view or edit more settings.
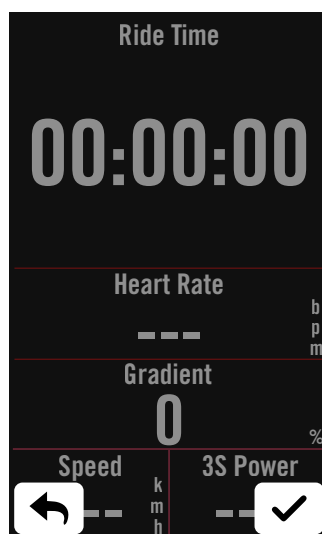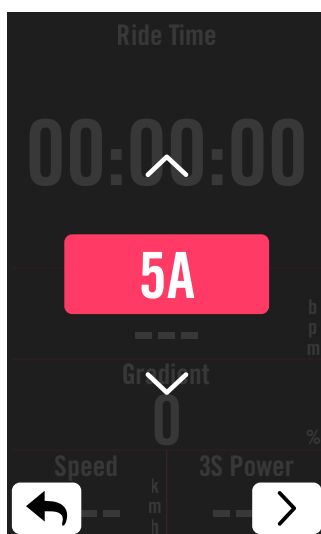
Select ⚙ **Settings > Bike Settings > Ride Config > Data Page**

- Turn on data pages and click a page to modify grids numbers.
- In order to show graphics on the data page, the height of the desired data field must be at least one-third of the screen or larger.
- Press ❯ to preview data fields. Tap ✓ to confirm or ↩ to go back.

**NOTE:** You can also edit bike profiles on Bryton Active app after paired it with the device. Go to **Settings > Bike setting** in the app. All the revised information will automatically sync to the device once you make sure the Rider S810 is connected to the app.

# GPS System

Rider S810 has full GNSS (Global Navigation Satellite System) support including GPS, GLONASS (Russia), BDS (China), QZSS (Japan) and Galileo (EU). You can select to turn on or off the GPS system.

1. Select ⚙ in the home page.
2. Select **Bike Settings**.
3. Select a bike > **GPS System**.

**Enable GPS System**
Turn on GPS System status.

NOTE: If the GPS signal is not fixed, a "Please go outdoors to an open area to acquire GPS satellite signal." message will appear on the screen. Check if GPS is on and make sure you step outside to acquire signal.

# Overview

Select Overview to view more details of the bike odometer.

Find ⚙ in the **home page > Bike Settings > Select a bike profile > Overview**

**Trip 1 / 2:**
Cumulative mileage recorded before you reset it. You are free to use Trip 1 or Trip 2 to record travel distance in a period and reset it.
Trip 1 and 2 will show in the same value before you reset one or each of them.

For instance, if you plan to change your tires after riding 100 km, you can reset Trip 1 or Trip 2 to 0 when you install new tires. After a few rides, you can view the total trip distance since you changed the tires to see how many distance remains to change tires.

# Display

You can change the display setting such as Brightness, Backlight, and Meter Page Mode.

| Display |
|---|
| Brightness　　　　　> |
| Backlight Duration　　Smart ▼ |
| Meter Color Mode　　Auto ▼ |

**Brightness**

Auto

Brightness and battery life balanced

🔋 100% 📶

**12:30** PM

Auto control on ☀️

Lap Info

**00:18:36**

Avg. Speed　　Max Speed
**29.9** km/h　　**32.6** km/h

**Backlight Duration**

1 min
**2 mins**
Stays on
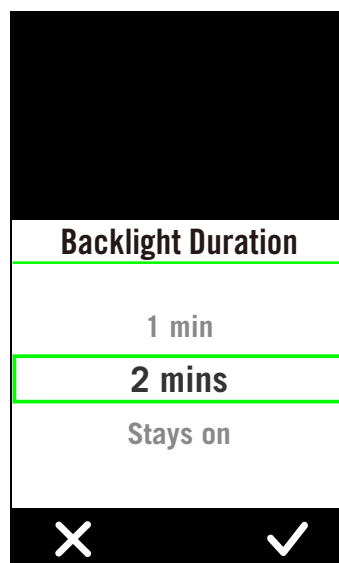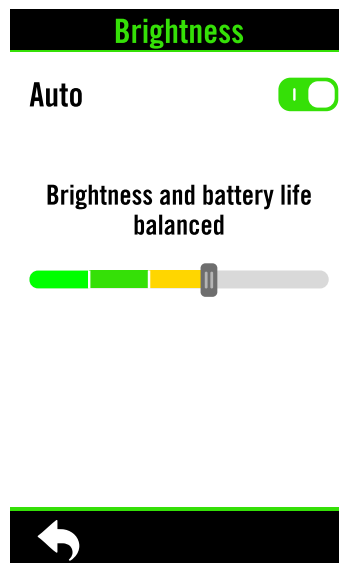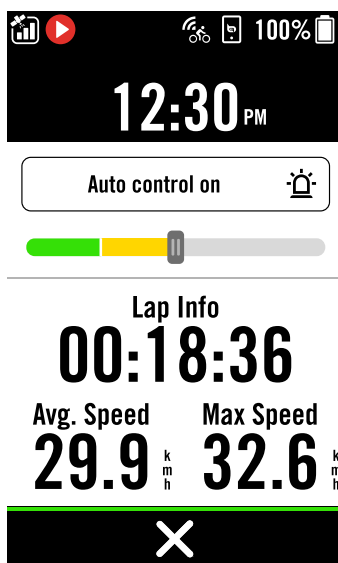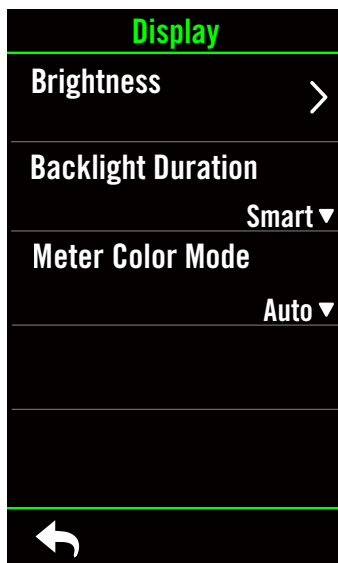
1. Select ⚙️ in the home page.
2. Select **Display > Brightness**.

**Brightness**

You can choose to set the brightness to Auto (On or Off). When enabled, the device automatically adjusts the display brightness based on ambient lighting conditions to ensure consistent colors in different environments. There are five brightness levels for users to choose from based on personal preference and battery life considerations. When disabled, users can manually adjust the brightness level. This setting is also available in the Quick Status menu.

**Backlight Duration**

Swipe up and down for selecting preferred duration.

**Meter Color Mode**

You can choose Day or Night mode for different color of the meter pages.

# Pair Sensors

We suggest that you pair all your sensors with the device beforehand, Rider S810 will scan for nearby active sensors from the sensor pool, making switching between bikes and sensors easier and more convenient than ever.
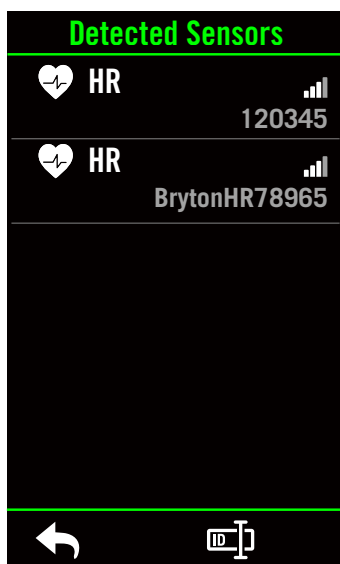
1. Select ⚙ in the home page.
2. Find Sensors.

**Add New Sensors**
1. Select **+** to add new sensors.
2. Choose any type of sensor that you would like to pair with.
3. To pair sensors with your device, please have Bryton Smart Sensors installed first, then wear a heart rate monitor or rotate the crank and wheel a few times to wake Bryton Smart Sensors up.
4. For Bike Radars, E-bikes, and Ess/Di2, please turn the power on before starting pairing.
5. Let the device detect sensors automatically or select ⏹ to enter a sensor ID manually.
6. Pick a detected sensor you would like to pair with then select ✔ to save.

**Disconnect sensors**
1. Select the sensor you would like to deactivate.
2. Turn off the status to disband the sensor.

**Activate Paired Sensors**
1. Select the sensor you would like to activate.
2. Turn on sensor status then sensors will be connected automatically.
3. If the sensor failed to be connected or you want to switch to this sensor, select 🔗 to reconnect it with your device.

**Remove sensors**
1. Choose the sensor you would like to remove.
2. Tap Remove and click ✔ to confirm.

**Switch Sensors**
1. If another paired sensor is detected, the device will ask you if you want to switch to another sensor.
2. Tap ✔ to switch the sensor.
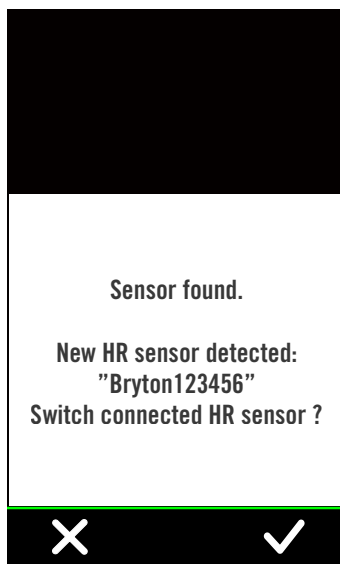
**NOTE:**
- If you select X in the sensor found notification, the detected sensor would be deactivated. You will need to turn on its Status to activate it again.
- Sensors only need to be switched if they are in the same type and both are already added in the list.

# Using Electronic Shifting Systems

After pairing electronic shifters, such as Shimano Di2 or SRAM, you can enter the sensor pages for further settings. To customize the data grids on meter pages, please go to page 5 for more instruction.

| Sensor Details | |
|---|---|
| **Status** | 🟢 |
| ID | |
| | **120345** |
| Type | |
| | **ANT+** |
| **Front Gear** | › |
| **Rear Gear** | › |
| ← | |

| Rear Gear | |
|---|---|
| **Gear 1** | 21▼ |
| **Gear 2** | 19▼ |
| **Gear 3** | 18▼ |
| **Gear 4** | 17▼ |
| **Gear 5** | 16▼ |
| ← | ✓ |

1. Select ⚙ in the home page.
2. Find **Sensors**.
3. Select the electronic shifter you paired.
4. Enter Sensor Details to input the tooth numbers.

| Remote Setup | |
|---|---|
| **Left Single Press** | Next Page ▼ |
| **Right Single Press** | Lap ▼ |
| **Left Long Press** | Lock/Unlock ▼ |
| **Right Long Press** | Start/Stop ▼ |
| ← | ✓ |

| Remote Setup |
|---|
| Lock/Unlock |
| **Next Page** |
| ✗            ✓ |
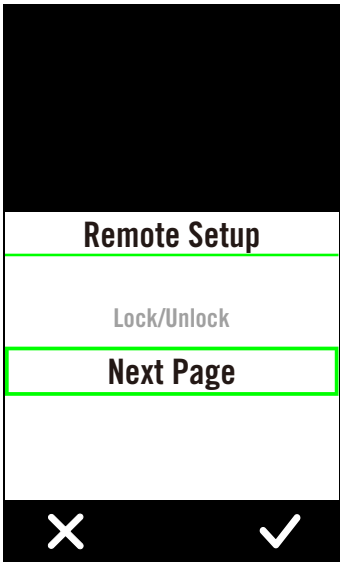
**Remote Setup**
1. Enter Remote Setup. Tap ✓ to add or choose it.
2. Click on ▼ in each option to set up different functions for each button.

## Manage Sensors via Bryton Active
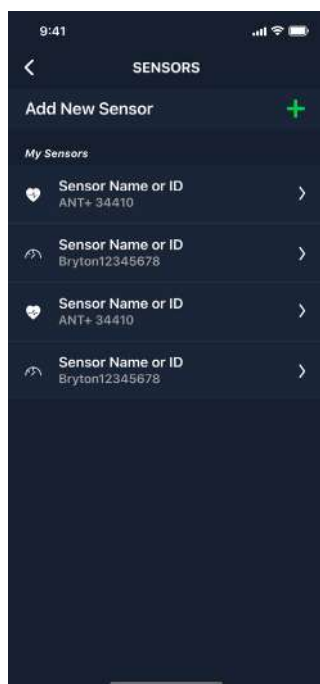
1. Select ⚙ Settings in the home page.
2. Find **Sensors**.

**Add New Sensors**
1. Select **Add Sensor** to add new sensors.
2. Choose any type of sensor that you would like to pair with.
3. To pair sensors with your device, please have Bryton Smart Sensors installed first, then wear a heart rate monitor or rotate the crank and wheel a few times to wake Bryton Smart Sensors up.
4. For Bike Radars, E-bikes, and Ess/Di2, please turn the power on before starting pairing.
5. Let the device detect sensors automatically or enter a sensor ID manually.
6. Pick a detected sensor you would like to pair with then select **OK** to save.
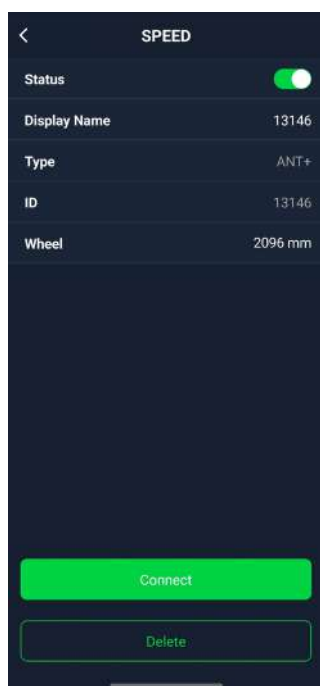
**Manage Sensors**
1. Select the sensor you would like to edit.
2. Turn on or off the status to activate or deactivate the sensor.
3. Edit the name by clicking the display name .
4. Remove the sensor by pressing **Delete**.

**Switch Sensors**
1. Select the sensor you would like to switch to.
2. Press **Connect** to pair the sensor.

**NOTE:**
Sensors only need to be switched if they are in the same type and both are already added in the list.

## Bike Radar

1. The bike radar's status and information will be displayed on the data screen.
2. The vehicle's position will move up the screen as the vehicle approaches your bike. Next to the vehicle, the color underneath of the vehicle will change based on the level of threat detected. Green signifies that no threat is detected. Yellow indicates an approaching vehicle. Red indicates that a vehicle is approaching at high speed.
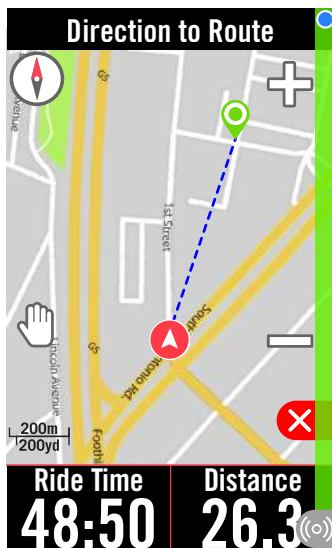
| Icon | Description |
|---|---|
| ((o)) | Bike radar is connected. |
| ● | Rider's position |
| 🚗 | Approaching vehicle |
| 🟩 | **Safe:** No vehicle is detected around. |
| 🟧 | **Caution:** A vehicle is approaching. |
| 🟥 | **High Awareness:** A vehicle is approaching at high speed. |

**NOTE:**
- If there is no vehicle around you, the color strip will not show on the screen.
- Please go to Page 37 to see how to pair a bike radar with Rider S810.

## Using E-bike

The Rider S810 incorporates Shimano Steps and ANT+ LEV e-bike support for compatible brands to display various e-bike data, including assist mode, assist level shifting mode, E-Bike battery, travel range and rear gear position.
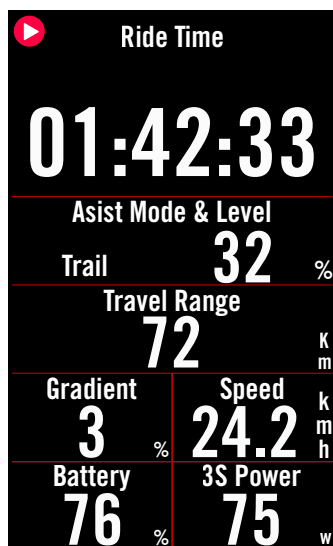
1. Before you can use a compatible e-bike, you must pair it with the Rider S810.
2. You can customize the compatible e-bike data fields.

# System

In System, you can customize System Settings, Recording Settings, Auto Scroll, Start Remind, File Saving, Memory, ODO, and Data Reset.

## System Settings

You can setup Language, Backlight Duration, Meter Color Mode, Key Tone, Sound, Time/Unit, Auto Lock, and Status Duration.

| System | |
|---|---|
| Language | > |
| Auto Power Off | Off ▼ |
| Key Tone | ⬤ |
| Sound | ⬤ |
| Time/Unit | > |
| ↩ | |

| Time/Unit | |
|---|---|
| Dlight Saving | +00:00 ▼ |
| Date Format | mm/dd/yyyy ▼ |
| Time Format | 12-hr ▼ |
| Unit | KM, KG ▼ |
| Temperature | ºC ▼ |
| ↩ | |
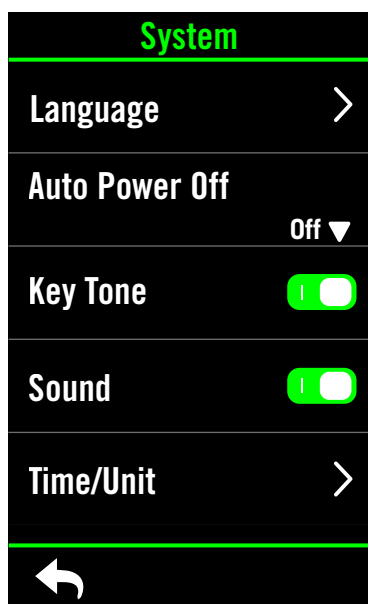
1. Tap ⚙ in the home page.
2. Select **System**.

**Language**
Select your desired language.

**Auto Power off**
The device will automatically power off after the time you set to preserve battery life when pausing. The activity will resume upon powering on.

**Keytone**
Enable or disable **Key Tone** to change the settings for key presses.

**Sound**
Turn on or off **Sound** to change the settings for alerts and notifications.

**Time / Unit**
Select **Dlight Saving, Date Format, Time Format, Unit, and Temperature** to change the settings.
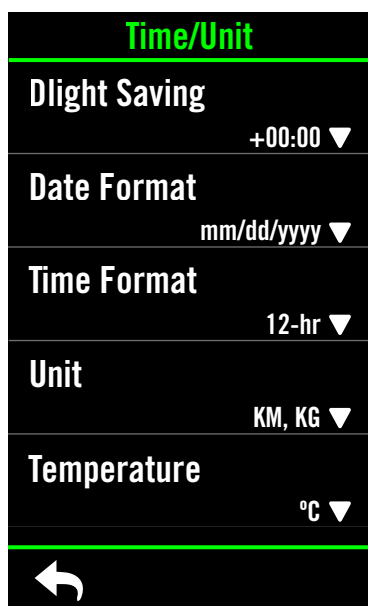
# Recording Settings

In Recording Settings, data recording frequency can be customized for higher accuracy / data saving, as well as how data is included depending on user preference.

| Recording Settings |
| --- |
| **Smart Recording** |
| 1 sec ▼ |
| **ODO Setup** |
| All ▼ |
| **ODO** |
| 4.4km ▼ |
| **Start Remind** |
| Repeats ▼ |
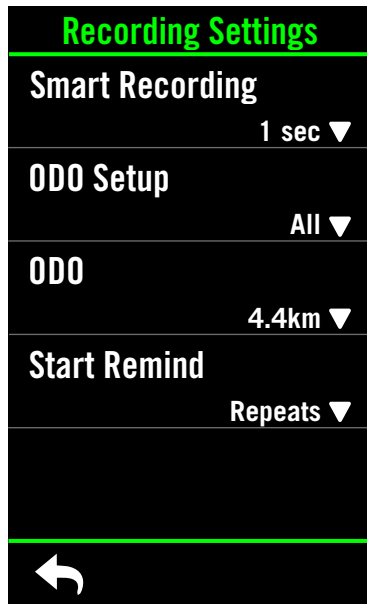
1. Select ⚙ in the home page.
2. Select **Recording Settings**.

**ODO Setup**
Select **Recorded** or **All** and select ✓ to confirm.

**Start Remind**
When the device detects the motion of your bike, a reminder will pop up and ask you if you would like to start recording. You can set the frequency of the reminder

1. Select ⚙ in the home page.
2. Find **Recording Settings > Start Remind**.
3. Select ✓ to confirm.
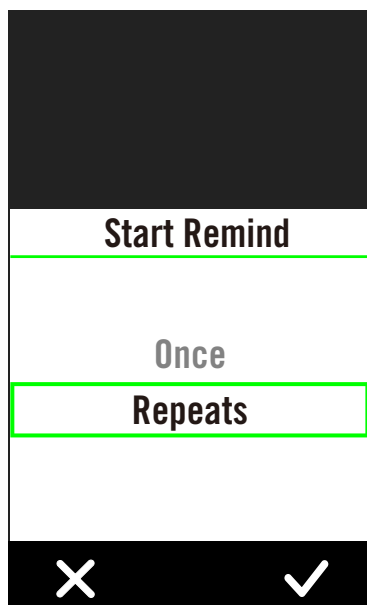
| Start Remind |
| --- |
| Once |
| **Repeats** |
| ✗　　　✓ |

# Altitude

With Internet connection, Bryton Active app provides altitude information for you to calibrate directly. You can also change altitude manually.
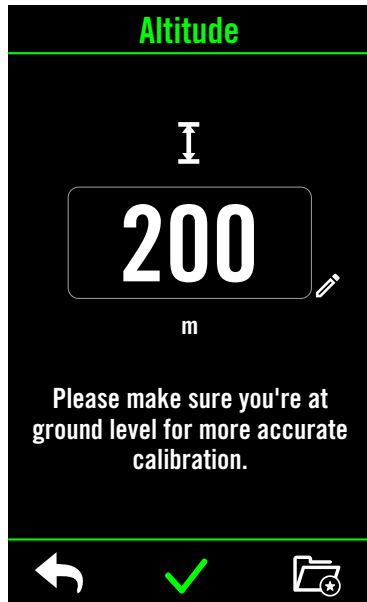


**Calibrate Altitude**
1. Choose ⚙ in the home page.
2. Select **Altitude**.
3. Click on the number to change the value.
4. Select ✓ to confirm.
5. You can also save particular locations for auto calibrating. Find 📁 and set the positions.

**NOTE:** The value of altitude on the meter mode will be changed once current altitude is adjusted.

# About

You can view your device current firmware version and UUID.



1. Select ⚙ in the home page.
2. Select **About**.
3. Firmware information and current latitude and longitude will show on the device.

# Profile

In Profile, you can browse and personalize your information.

## Personal Information

| Profile | |
|---|---|
| **Device Name** | |
| | **Bryton** |
| **Gender** | |
| | **Female** ▼ |
| **Birthday** | |
| | **1/1/1981** ▼ |
| **Height** | |
| | **180.0 cm** ▼ |
| **Weight** | |
| | **60.0kg** ▼ |
| ↩ | |

| Heart Rate Zone | |
|---|---|
| **Based on** | |
| | **LTHR, 190 bpm** ▼ |
| **Zone 1**<br>0-140 bpm | **0 %** ▼ |
| **Zone 2**<br>140-152 bpm | **74 %** ▼ |
| **Zone 3**<br>152-161 bpm | **80 %** ▼ |
| **Zone 4**<br>161-172 bpm | **85 %** ▼ |
| | **91 %** ▼ |
| ↩ | |

1. Select 👤 in the home page.
2. Select Herat Rate Zone and tap to edit details.

**Customize Heart Rate Zone**
1. Select **MHR**.
- Use keyboard to enter MHR.
- Press ▼ to edit details for each zone.
- Select ✓ to confirm.
- Scroll up and down to edit more zones.
2. Select **LTHR**.
- Use keyboard to enter LTHR.
- Press ▼ to edit details for each zone.
- Select ✓ to confirm.
- Scroll up and down to edit more zones.

**Customize Power Zone**
Select **FTP**.
- Use keyboard to enter FTP.
- Press ▼ to edit details for each zone.
- Select ✓ to confirm.
- Scroll up and down to edit more zones.

---

**NOTE:**
Heart Rate Graphical Data will be displayed based on the selection of LTHR or MHR.
Power Graphical Data will be displayed based on the selection of FTP.
Please go to page 6 to see more detail of Graphic mode.

# Bryton App Advanced Settings

After pairing your Rider S810 with Bryton Active App, you will have access to Notifications.

## Notifications

After pairing your compatible smartphone using Bluetooth with Rider S810, you can receive phone calls, texts and email notifications on your Rider S810.

**iOS Phone Pairing**
   a. Go to your phone " **Settings > Bluetooth** " and enable Bluetooth.
   b. Go to Bryton Mobile App and Tap on " **Settings > Device Manager > +** ".
   c. Select and add your device by pressing "**+**".
   d. Tap on "**Pair**" to pair your device with your phone. (For iOS phone only)
   e. Tap on "**Finish**" to complete pairing.

> **NOTE:**
> If notifications do not work properly, in your phone, please go to "Settings > Notifications" and check if you have allowed notifications in compatible   messaging and email apps or go to social applications settings.

**Android Phone Pairing**
   a. Go to your phone " **Settings > Bluetooth** " and enable Bluetooth.
   b. Go to Bryton Mobile App and Tap on " **Settings > Device Manager > +** ".
   c. Select and add your device by pressing "**+**".
   d. Tap on "Finish" to complete pairing.

**Allow Notification Access**
   a. Tap on " **Settings > Notification**".
   b. Tap on "**OK**" to enter setting to allow Notification Access for Bryton app.
   c. Tap on "**Active**" and select "**OK**"  to allow notification access for Bryton.
   d. Go back to Notification settings.
   e. Select and enable In-coming Calls, Text Messages and Emails by tapping on each item.

# Appendix

## Specification

### Rider S810

| Item | Description |
|---|---|
| Display | 3.5" Color TFT Capacitive Touch Screen |
| Physical Size | 102.5 x 57.6 x 15.8 mm |
| Weight | 116 g |
| Operating Temperature | -10°C ~ 60°C |
| Battery Charging Temperature | 0°C ~ 40°C |
| Battery | Li polymer rechargeable battery |
| Battery Life | 50 hours with open sky |
| ANT+™ | Featuring certified wireless ANT+TM connectivity.<br>Visit www.thisisant.com/directory for compatible products.<br>HR SPD CAD S&C PWR CTF RDR FE-C LEV |
| GNSS | Integrated high-sensitivity GNSS receiver with embedded antenna |
| BLE Smart | Bluetooth smart wireless technology with embedded antenna; 2.4GHz band 0dBm |
| Water Resistant | Water resistant to a depth of 1 meter for up to 30 minutes. |
| Barometer | Equipped with barometer |

# Install Rider S810

## Use Bike Mount to Mount Rider S810
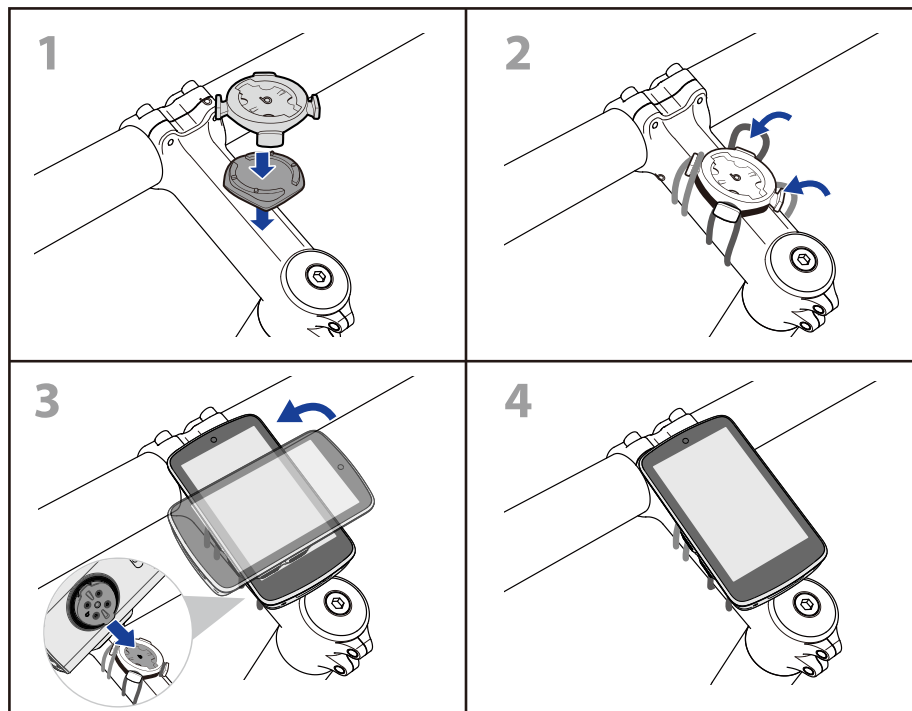


## Sport Mount (Optional)
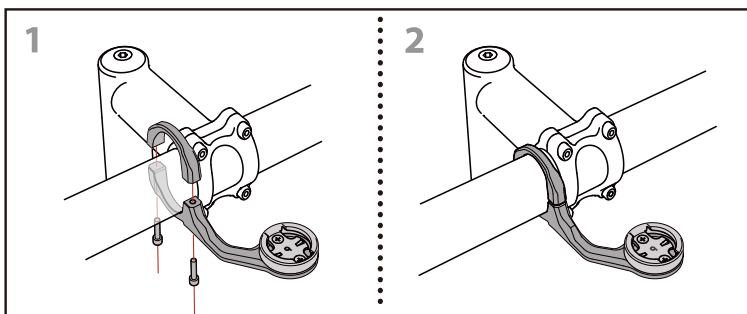


## Safety Lanyard
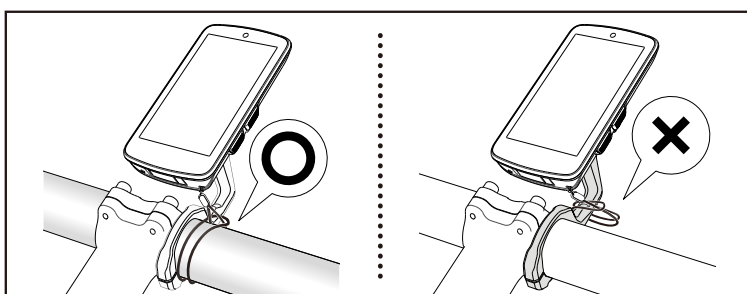


## Conversion Kit for Rider S810



**+ PHO**

**Max 1.0 kgf.cm**
**0.1 Nm**

**WARNING: CHOKING HAZARD**
Small parts.
Not for children under 3 years.

# Install Heart Rate Belt (Optional)

## Install Heart Rate Belt (Optional)

Elétrodos          Correia
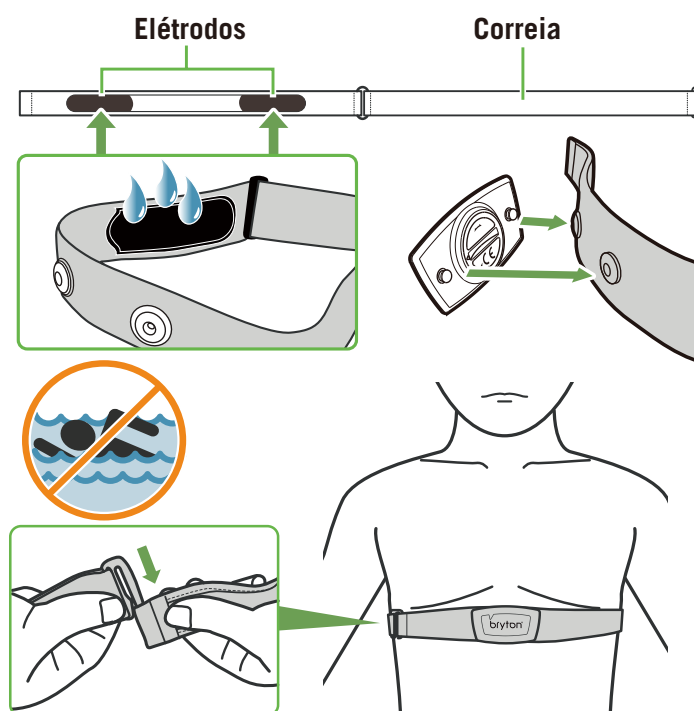
⚠ Accuracy may be degraded by poor sensor contact, electrical interference, and receiver distance from transmitter.
The Bryton Smart HR Sensor contains a user-replaceable CR2032 battery.

CR2032

CR2032 +
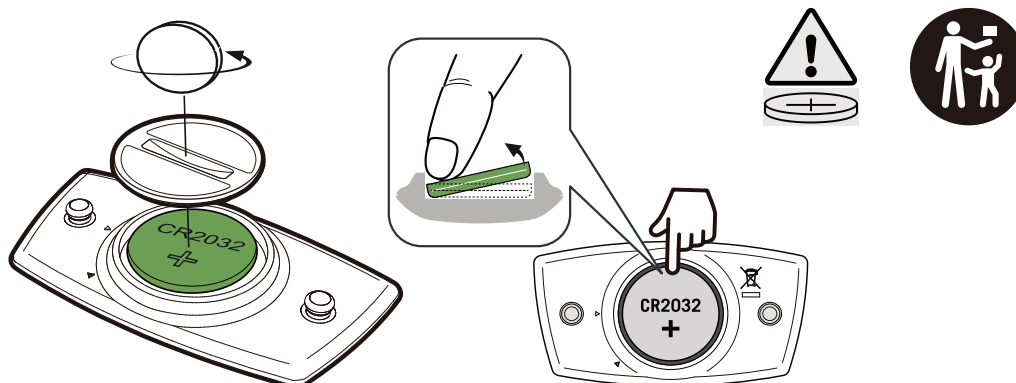
Desencaixar se não usar.  Lavar à mão após o uso.

⚠ To prolong the life of your heart rate monitor, detach the sensor and clean the strap after every use.

# Install the Speed / Cadence / Dual Sensor (Optional)



**Cadence Sensor**

**Speed Sensor**

**+ PHO**

**Máx. 1.0 kgf.cm**
**0.1 Nm**

Use uma chave de fendas do tamanho correto para evitar danificar os parafusos.

⚠ Remova a patilha da bateria antes de usar. O Sensor Inteligente de Velocidade / Cadência Bryton contém uma bateria CR2032 substituível pelo1 utilizador.
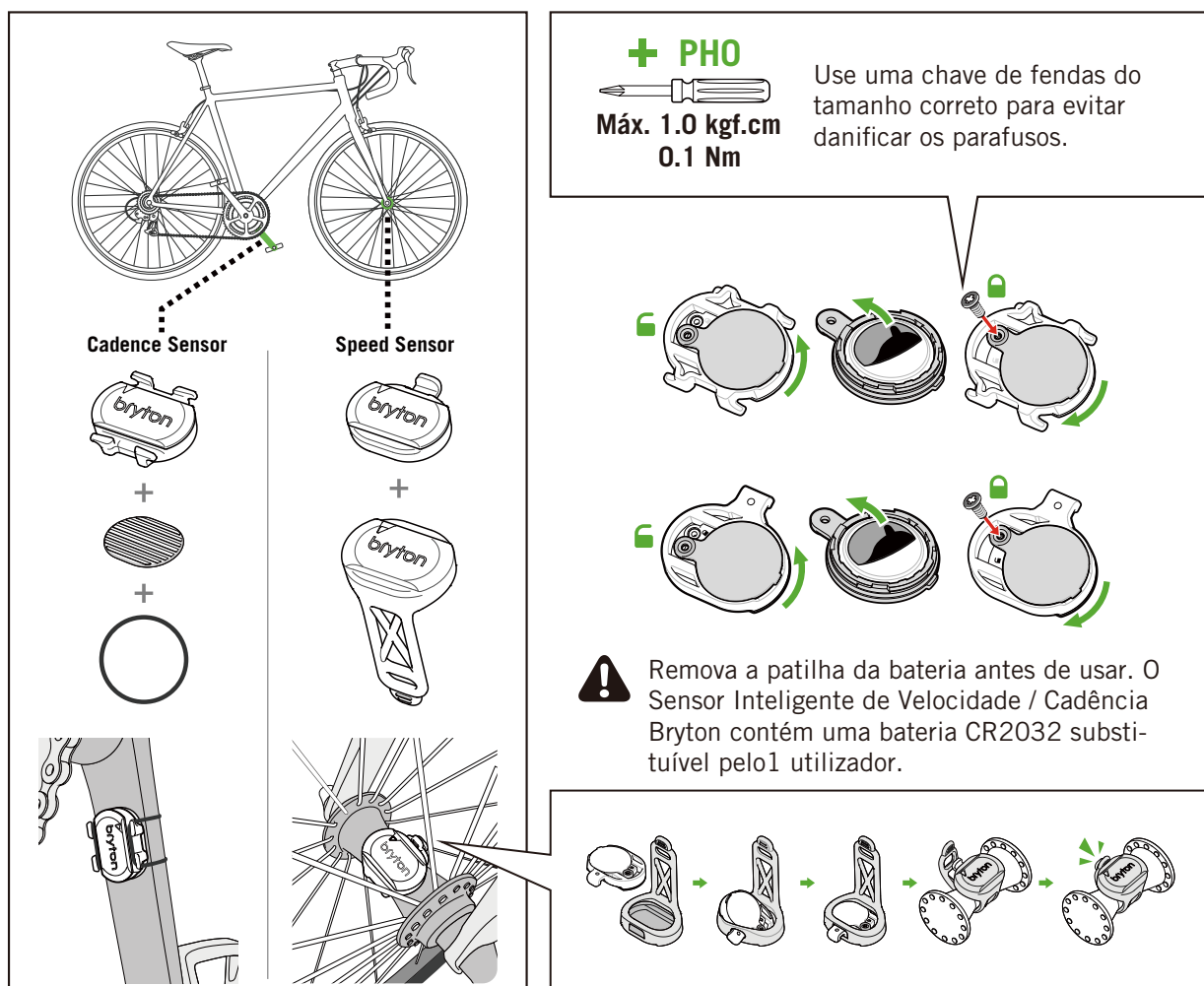
# ⚠ WARNING

- Remova e recicle ou descarte imediatamente as pilhas usadas de acordo com os regulamentos locais e mantenha-as longe do alcance das crianças. NÃO descarte as pilhas no lixo doméstico nem as incinere.
- Mesmo as pilhas usadas podem causar ferimentos graves ou morte.
- Ligue para um centro local de controlo de intoxicações para obter informações sobre o tratamento.
- Tipo de pilha: CR2032; Voltagem da pilha: 3VDC.
- As pilhas não recarregáveis não devem ser recarregadas.
- Não force a descarga, recarregue, desmonte, aqueça acima da temperatura especificada pelo fabricante ou incinere. Isso pode resultar em ferimentos devido a ventilação, vazamento ou explosão, causando queimaduras químicas.
- Certifique-se de que as pilhas estão instaladas corretamente de acordo com a polaridade (+ e -).
- Não misture pilhas novas e velhas, marcas ou tipos de pilhas diferentes, como alcalinas, zinco-carbono ou recarregáveis.
- Remova e recicle ou descarte imediatamente as pilhas de equipamentos que não forem usados por um longo período de tempo, de acordo com os regulamentos locais.
- Sempre feche completamente o compartimento da pilha. Se o compartimento da pilha não

# Wheel Size and Circumference

The wheel size is marked on both sides of the tires.

| Wheel Size | L (mm) |
| --- | --- |
| 12x1,75 | 935 |
| 12x1,95 | 940 |
| 14x1,50 | 1020 |
| 14x1,75 | 1055 |
| 16x1,50 | 1185 |
| 16x1,75 | 1195 |
| 16x2,00 | 1245 |
| 16 x 1-1/8 | 1290 |
| 16 x 1-3/8 | 1300 |
| 17x1-1/4 | 1340 |
| 18x1,50 | 1340 |
| 18x1,75 | 1350 |
| 20x1,25 | 1450 |
| 20x1,35 | 1460 |
| 20x1,50 | 1490 |
| 20x1,75 | 1515 |
| 20x1,95 | 1565 |
| 20x1-1/8 | 1545 |
| 20x1-3/8 | 1615 |
| 22x1-3/8 | 1770 |
| 22x1-1/2 | 1785 |
| 24x1,75 | 1890 |
| 24x2,00 | 1925 |
| 24x2,125 | 1965 |
| 24 x 1 (520) | 1753 |
| Tubular 24 x 3/4 | 1785 |
| 24x1-1/8 | 1795 |
| 24x1-1/4 | 1905 |
| 26 x 1 (559) | 1913 |
| 26x1,25 | 1950 |
| 26x1,40 | 2005 |
| 26x1,50 | 2010 |
| 26x1,75 | 2023 |
| 26x1,95 | 2050 |
| 26x2,10 | 2068 |
| 26x2,125 | 2070 |
| 26x2,35 | 2083 |

| Wheel Size | L (mm) |
| --- | --- |
| 26x3,00 | 2170 |
| 26x1-1/8 | 1970 |
| 26x1-3/8 | 2068 |
| 26x1-1/2 | 2100 |
| 650C Tubular 26 x7/8 | 1920 |
| 650x20C | 1938 |
| 650x23C | 1944 |
| 650 x 25C 26 x1 (571) | 1952 |
| 650x38A | 2125 |
| 650x38B | 2105 |
| 27 x 1 (630) | 2145 |
| 27x1-1/8 | 2155 |
| 27x1-1/4 | 2161 |
| 27x1-3/8 | 2169 |
| 27,5x1,50 | 2079 |
| 27,5x2,1 | 2148 |
| 27,5x2,25 | 2182 |
| 700xl8C | 2070 |
| 700xl9C | 2080 |
| 700x20C | 2086 |
| 700x23C | 2096 |
| 700x25C | 2105 |
| 700x28C | 2136 |
| 700x30C | 2146 |
| 700x32C | 2155 |
| 700C Tubular | 2130 |
| 700x35C | 2168 |
| 700x38C | 2180 |
| 700x40C | 2200 |
| 700x42C | 2224 |
| 700x44C | 2235 |
| 700x45C | 2242 |
| 700x47C | 2268 |
| 29x2,1 | 2288 |
| 29x2,2 | 2298 |
| 29x2,3 | 2326 |
|  |  |

# Data Field

| Category | Data Field | Description of Data Fields |
|---|---|---|
| Altitude | Altitude | The height of your current location above or below sea level. |
| | Max Altitude | The highest height of your current location above or below sea level which the rider achieved for the current activity. |
| | Alt. Gain | The total altitude gain during this current activity. |
| | Alt. Loss | The total altitude lost during this current activity. |
| | Grade | The calculation of altitude over distance. |
| | Uphill Dist. | The total distance traveled while ascending. |
| | Downhill Dist. | The total distance traveled while descending. |
| | Lap alt. loss | altitude loss of the current lap |
| | lap alt. gain | altitude gain of the current lap |
| Distance | Distance | The distance traveled for current activity. |
| | ODO | The accumulated total distance until you reset it. |
| | Trip 1/Trip 2 | Cumulative mileage recorded before you reset it. They are 2 separate trip measurements. You are free to use Trip 1 or Trip 2 to record,for example, weekly total distance and use another to record, for example, monthly total distance. |
| Speed | Speed | The current rate of change in distance. |
| | Avg Speed | The average speed for current activity. |
| | Max Speed | The maximum speed for current activity. |
| Cadence | Cadence | The current rate at which rider is pedalling the pedals. |
| | Avg CAD | The average cadence for current activity. |
| | Max CAD | The maximum cadence for current activity. |
| Time | Time | Current GPS Time. |
| | Ride Time | The time spent on riding for current activity. |
| | Trip Time | Total time spent for current activity. |
| | Sunrise | The time of sunrise based on your GPS location. |
| | Sunset | The time of sunset based on your GPS location. |
| | LapTime | The stopwatch time for the current lap. |
| | LLapTime | The stopwatch time for the last nished lap. |
| | Lap Count | The number of laps nished for the current activity. |

| Category | Data Field | Description of Data Fields |
|---|---|---|
| Energy | Calories | The number of total calories burned. |
| | Kilojoules | The accumulated power output in kilojoules for the current activity. |
| Heart Rate | Heart Rate | The number of times your heart beats per minute. It requires compatible HR sensor pairing connection to your device. |
| | Avg HR | The average heart rate for current activity. |
| | Max HR | The maximum heart rate for current activity. |
| | MHR % | Your current heart rate divided by Maximum Heart Rate. MHR means that the maximum number of beats made by your heart in 1 minute of effort. (MHR is different from Max HR. You will need to set MHR in User Profile) |
| | LTHR% | Your current heart rate divided by Lactate Threshold Heart Rate. LTHR means that the average heart rate while in the intense exercise at which the blood concentration of lactate begins to exponentially increase. (You will need to set LTHR in User Profile) |
| | HR Zone | The current range of your Heart Rate (Zone 1 to Zone 7). |
| | MHR Zone | The current range of your Maximum Heart Rate Pecentage heart rate (Zone 1 to Zone 75). |
| | LTHR Zone | The current range of your Lactate Threshold Heart Rate Percentage (Zone 1 to Zone 7). |
| Heading | Heading | Heading function informs you which direction you are currently heading. |
| Temperature | Temp | The current temperature. |

| Category | Data Field | Description of Data Fields |
|---|---|---|
| Power | Power Now | Current Power in Watt. |
| | Avg Power | The average power for the current activity. |
| | Max Power | The maximum power for the current activity. |
| | 3s power | 3 seconds average of power |
| | 10s power | 10 seconds average of power |
| | 30s power | 30 seconds average of power |
| | NP (Normalized Power) | An estimate of the power that you could have maintained for the same physiological "cost" if your power had been perfectly constant, such as on an ergometer, instead of variable power output. |
| | w/kg | Power to weight ratio |
| | TSS (Training Stress Score) | Training Stress Score is calculated by taking into account both the intensity such as IF and the duration of the ride. A way of measuring how much stress is put on the body from a ride. |
| | IF (Intensity Factor) | Intensity Factor is the ratio of the normalized power(NP) to your Functional Threshold Power(FTP). An indication of how hard or difficult a ride was in relation to your overall fitness. |
| | Left Power | The Left-side power meter value. |
| | Right Power | The Right-side power meter value. |
| % of FTP | % of Current Power | The percentage of Current Power in FTP |
| | % of Average Power | The percentage of Average Power in FTP |
| | % of Lap Power | The percentage of Lap Power in FTP |
| | % of Last lap Power | The percentage of Last lap Power in FTP |
| | % of 3s power | The percentage of 3 seconds Power in FTP |
| | % of 10s power | The percentage of 10 seconds Power in FTP |
| | % of 30s power | The percentage of 03 seconds Power in FTP |
| FTP Zone | FTP zone | FTP Zone of Current Power |
| | Time in FTP zone 1 | Time elapsed in zone 1 |
| | Time in FTP zone 2 | Time elapsed in zone 2 |
| | Time in FTP zone 3 | Time elapsed in zone 3 |
| | Time in FTP zone 4 | Time elapsed in zone 4 |
| | Time in FTP zone 5 | Time elapsed in zone 5 |
| | Time in FTP zone 6 | Time elapsed in zone 6 |
| | Time in FTP zone 7 | Time elapsed in zone 7 |

| Category | Data Field | Description of Data Fields |
|---|---|---|
| Pedal Analysis | CurPB-LR | The current left/right power balance. |
| | AvgPB-LR | The average left/right power balance for the current activity. |
| | CurTE-LR | The current left/right percentage of how efficiently a rider is pedaling. |
| | MaxTE-LR | The maximum left/right percentage of how efficiently a rider is pedaling. |
| | AvgTE-LR | The average left/right percentage of how efficiently a rider is pedaling. |
| | CurPS-LR | The current left/right percentage of how evenly a rider is applying force to the pedals throughout each pedal stroke. |
| | MaxPS-LR | The maximum left/right percentage of how evenly a rider is applying force to the pedals throughout each pedal stroke. |
| | AvgPS-LR | The average left/right percentage of how evenly a rider is applying force to the pedals throughout each pedal stroke. |
| Workout | Target power | You can set a power target for your workout plan. |
| | Target cadence | You can set a cadence target for your workout plan. |
| | Target heartrate | You can set a target of heart rate zone for your workout plan. |
| | Remaining step time | The remaining distance of the current training. |
| | Remaining workout time | The remaining duration of the current training. |
| | Interval count | The number of the intervals of your workout. |
| Route | Dist to POI | Distance to next point of interest. |
| | Dist to Peak | Distance to next peak. |
| | Turn Info | Inform the rider the information of every turn. |
| | Dist to Destination | The remaining distance to the destination. |

| Category | Data Field | Description of Data Fields |
|---|---|---|
| Graph | SPD Ring | The current speed rate displays in dynamic coloured graphical mode. |
| | SPD Bar | |
| | CAD Ring | The current cadence rate displays in dynamic coloured graphical mode. |
| | CAD Bar | |
| | HR Ring | The current heart rate displays in dynamic coloured graphical mode. |
| | HR Bar | |
| | PW Ring | The current power rate displays in dynamic coloured graphical mode. |
| | PW Bar | |
| | 3s PW Ring | 3 seconds average of power displays in dynamic coloured graphical mode. |
| | 10s PW Ring | 10 seconds average of power displays in dynamic coloured graphical mode. |
| | 30s PW Ring | 30 seconds average of power displays in dynamic coloured graphical mode. |
| Ebike | Ebike Battery | The battery status of the conneted ebike. |
| | Travel Range | The possible distance that a rider could ride with the ebike. |
| | Assist Mode | Various modes provided by the ebike with assigned levels of assistance. |
| | Assist Level | The level of electronic assistance provided by the ebike in a given power mode. |
| | Ebike Rear Gear | The gear position of the rear derailleur of Ebike displayed by the graphic. |
| | Assist Mode & Level | The current ebike assist mode and level of electronic assistance. |
| Electronic Gear-Shifting Systems | ESS/Di2 Battery Level | The remaining battery power of the ESS/Di2 system. |
| | Front Gear | The gear position of the front derailleur displayed by the graphic. |
| | Rear Gear | The gear position of the rear derailleur displayed by the graphic. |
| | Gear Ratio | The ratio of the current teeth of the front gear to that of the rear gear. |
| | Gears | The front and rear bike gears position displayed by numbers. |
| | Gear Combo | The current gear combination of the front gear and the rear gear. |

**NOTE:** Only supported for e-bike systems that support listed data.

# Basic Care For Your Rider S810

Taking good care of your device will reduce the risk of damage to your device.

1. Do not drop your device or subject it to severe shock.

2. Do not expose your device to extreme temperatures and excessive moisture.

3. The screen surface can easily be scratched. Use the non-adhesive generic screen protectors to help protect the screen from minor scratches.

4. Use diluted neutral detergent on a soft cloth to clean your device.

5. Do not attempt to disassemble, repair, or make any modification to your device. Any attempt to do so will make the warranty invalid.

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RF Exposure Information

This device meets the EU requirements and the International Commission on Non-Ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. To comply with the RF exposure requirements, this equipment must be operated in a minimum of 0.5cm separation distance to the user.

Hereby, Bryton Inc. declares that the radio equipment type Bryton product is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://global.brytonsport.com/pages/support_documents

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