bryton

User Manual

Rider 550

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

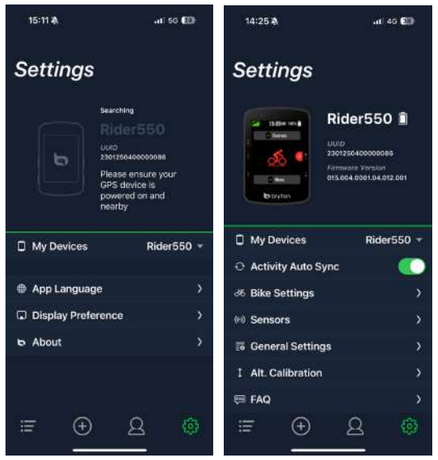
Getting Started

This section will guide you through basic preparations before the first use with your Rider 550.

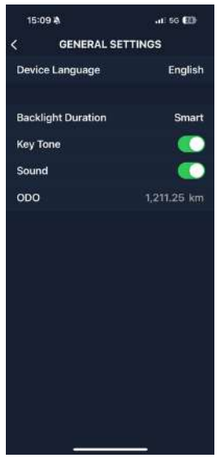
Initial Setup

1.Download Bryton Active app on your phone.

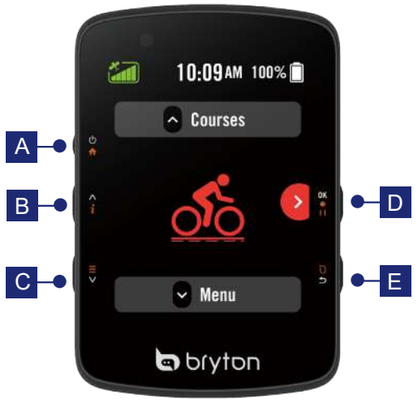
2.After logging into the app, add the Rider 550 to your account.



3.Set up your profile, preference settings, and data page grid via the app before your first ride.



Rider 550 Key Functions



A. POWER/LOCK (⏻⌂):
1.Press to power on the device.
2.When the device is on, press to return to the homepage.
3.Press and hold to power off the device.
B. UP (∧ i):
1.On the homepage, press to enter Routes.
2.On the data page, press to view the shortcut page.
C. PAGE (∨☰):
Press to scroll down the data screens and the options in the menu.
On the homepage, press to enter the menu.
D. RECORD/PAUSE (OK ● ❙❙):
On the data page, press this button to start/pause recording.
In the menu, press to enter a submenu or confirm a selection.
E. LAP/RETURN (↻ ⮌)
In the menu, press to return to the previous page or cancel an operation.
During recording, press to mark a lap.

Reboot Rider

Press (∧ i / OK ● ❙❙/ ∨☰ / ↻ ⮌) at the same time to reboot the device.

Accessories

The Rider 550 E SKU comes with the following accessories:

USB Cable

Bike Mount

Safety Lanyard

Conversion Kit for G

Optional items: (Include in D Sku)

Smart Heart Rate Monitor

Smart Cadence Sensor

Optional items:

Sport Mount

Rider 550 Protective Case

Smart Speed Sensor

Quick Status

- Check the current status with a single press in a second!
- Quick Status provides key information during your ride, including the following.

1. Current time
2. Sensor status
3. Smart notification
4. Temperature
5. GPS signals
6. Live Track
7. App connection
8. Battery status

Status Icons

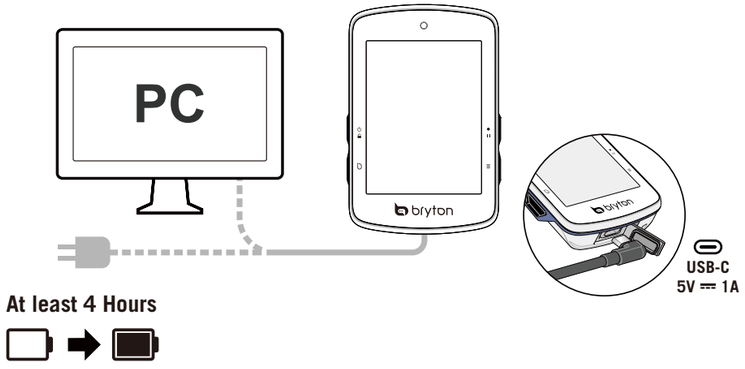
Icon	Description
	Recording
	Recording Pause
100%	Device Battery
	GPS Off
	No Signal (not fixed)
	Weak Signal
	Strong Signal
	GPS Data Update
	LiveTracking
	Phone Disconnected
	Phone Conncected
	Climb Challenge
	History
	Smart Bike Trainer
	Route
	Delete
	Route Ending Point
	Route Starting Point
	Climb Section

Icon	Description
	Status Off
	Heart Rate Sensor
	Speed Sensor Active
	Cadence Sensor
	Combo Sensor
watt	Power Meter Active
Di2	Di2
	E shifting
	Radar
STEPS	E-bike (Shimano)
LEV	E-bike (LEV)
	Heading Mode
	Destination
	Route Distance
	Altitude Gain
	Connect
	Add New
	Information

NOTE:
When you see this  for the GPS signal, it means the device is keeping the ephemeris data, which will help the device acquire the GPS signal faster. The data will be good for 1 week and needs to be updated afterward.

Step 1: Charge your Rider 550

Charge the Rider 550 battery for at least 4 hours. Unplug the device when it is fully charged. You may see a white screen when the battery is really 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.



Step 2: Turn On Rider 550

Press ⏻⌂ to turn on the device.

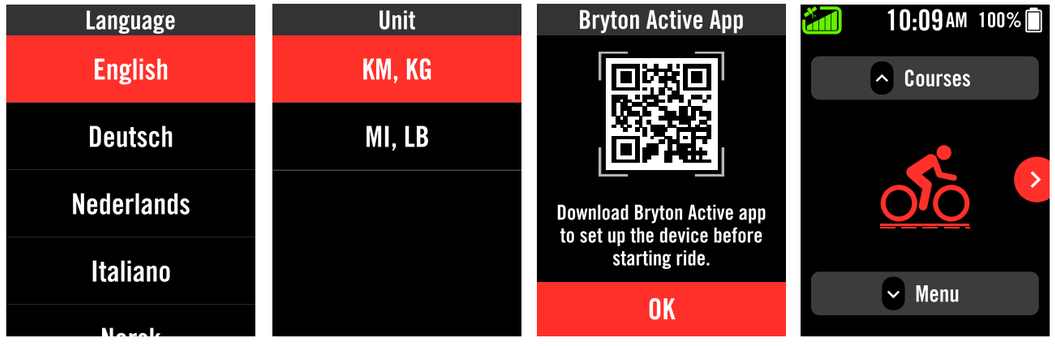
Step 3: Initial Setup

When powering on the Rider 550 for the first time, follow the instructions to complete setup.

1.Select the display language.

2.Choose the units of measurement.

3.Download Bryton Active app and pair the Rider 550 with your smartphone.

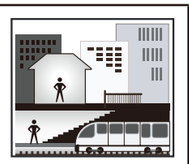
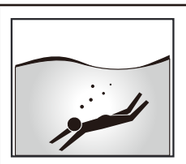
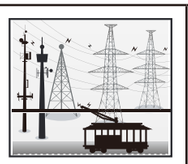


Step 4: Acquire Satellite Signals

Once the Rider 550 is turned on, it will automatically search for satellite signals. It may take 30 to 60 seconds to acquire signals for first time use.

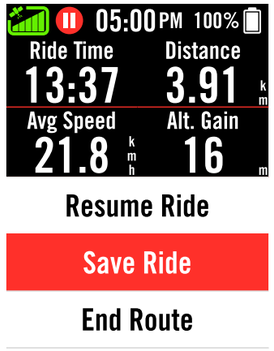
- The GPS signal Icon (/) appears when GPS is fixed.
- If GPS signal is not fixed, a icon appears on the screen.
- If GPS function is disable, a icon shows on the screen.

Please avoid obstructed environments since they might affect GPS reception.

				
Tunnels	Inside rooms, buildings, or underground	Under water	High-voltage wires or television towers	Construction sites and heavy traffic

Step 5: Ride with Rider 550

After the “Satellite Acquired” message pops up, enter cycling page and enjoy your ride in free cycling mode.



Start an exercise and record your data:

1. Press **OK** ● ❙❙ on the home page to enter cycling mode
2. In cycling mode, press **OK** ● ❙❙ to start recording. While recording, press **OK** ● ❙❙ to pause manually
3. Choose Save Ride to end recording.
4. Press ☝⮌ to go back data pages to check and press ☝⮌ again to return the previous page.
5. Choose Resume Rider to continue recording.
6. Press ⏻⌂ to return the home page to change settings or start a course
7. Rider 550 supports resume recording when the ride is 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 550 to PC

a. Connect Rider 550 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 550 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.

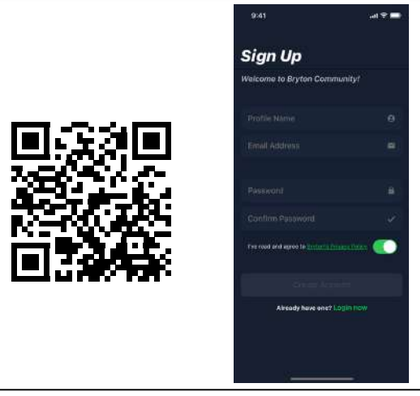
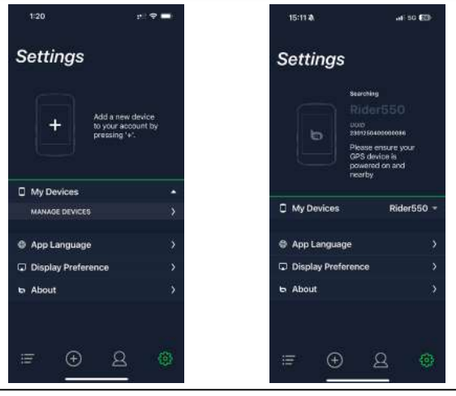
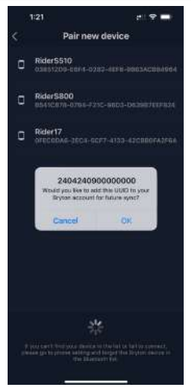
2. Connect to PC
Turn on your Rider 550 and connect it to your computer by USB cable.

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

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 550** 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://global.brytonsport.com/pages/support download Bryton Update Tool.
2. Follow the on-screen instructions to install Bryton Update Tool.

Update GPS Data

The GPS data can speed up the GPS signal acquisition if it's not outdated. We highly recommend you update the GPS data every 1-2 weeks.

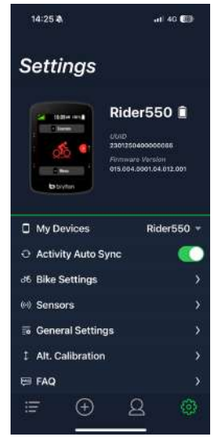
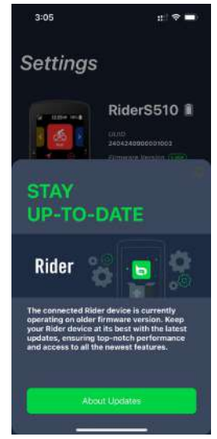
Update Firmware

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.

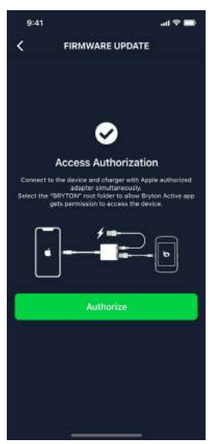
Update via Active app

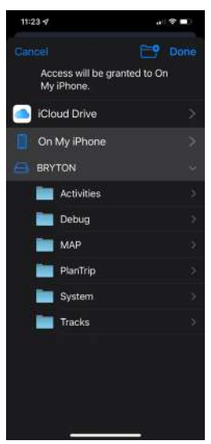
You can choose to update the firmware via Bluetooth or with a Bryton USB cable.

For iOS phone

a.Connect the Rider 550 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.
	

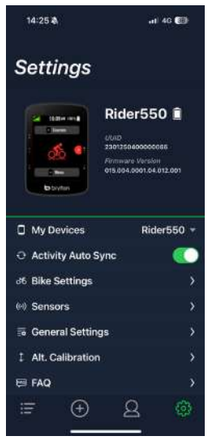
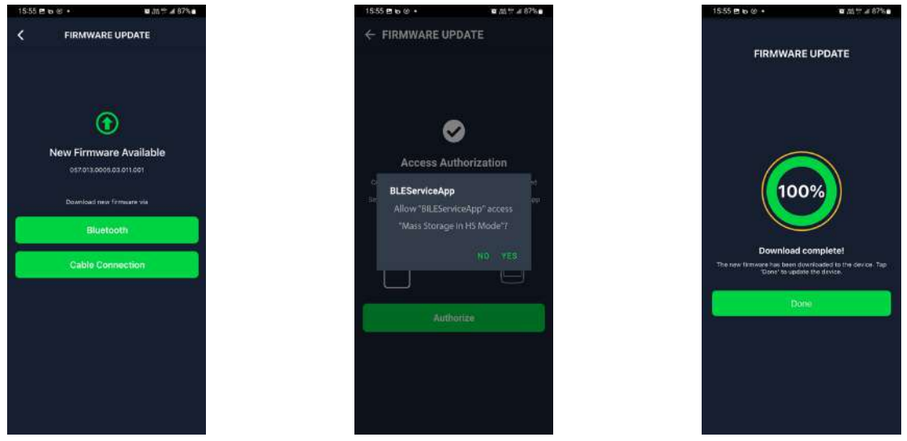
c. Choose to update the firmware with the Bryton cable or Bluetooth. You will need a **USB-C to USB Adapter** with Bryton original cable. Make sure the smartphone is connected to the device. Select the **"BRYTON"** root folder to allow Bryton Active app gets permission to access the device for downloading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





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

For Android phone

<table>
<tr><td>a.Connect the Rider 550 to your phone via Bluetooth.</td><td>b. The update message will pop up automatically, select Update to start the update. Or select Firmware Update to start updating.</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td colspan="2">c. Choose to update 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.</td></tr>
<tr><td colspan="2"> 
</td></tr>
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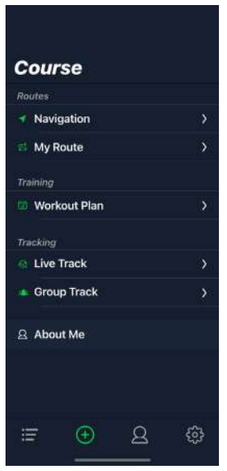
Course

Follow Track

Create Track

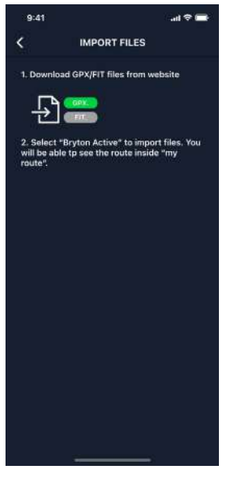
Rider 550 provides 3 ways to create tracks:
1. Plan trip via Bryton Active App.
2. Import routes from 3rd party platforms.
3. Auto sync routes from Strava, Komoot and RideWithGPS.

Plan Trips via Bryton Active App



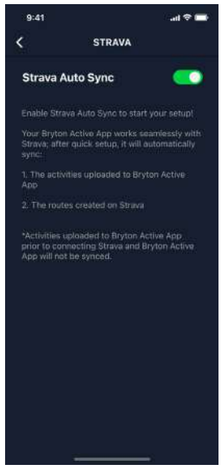
1. In Bryton Active App, select **Course > My Route > + >Plan trip** to set a Start point and Destination by tappingon the map or inputting address in the left Search Bar.
2. Upload the planned trip to **My Route** by tapping Save.
3. Go to **My Route** and select the route. Click the ... inthe upper right corner to download the route to yourBryton device.
4. In the Device Main Menu,Click **Course > Route** to findthe route and press (OK ● II) 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 **Course > Route**, find the route and tap on (**OK ● II**) 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 **Course > Route** to find the route and press (**OK** ● ❙❙) 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 **Course > Route**. Find the planed route and press (**OK** ● ❙❙) 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.

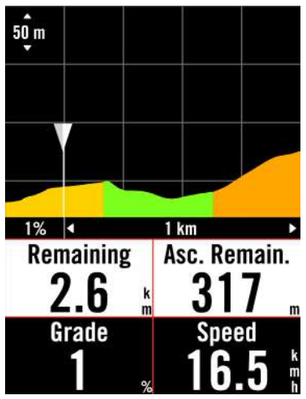
Route Guidance

After downloading routes to the Rider 550, you are able to follow the route.

1. Select **Course > Route**, then find the planned route in the list.
2. Press (**OK** ● ❙❙) to start riding.

Climb Challenge

When you approach a climb, the Rider 550 will change to the Climb Section page, providing an overview of a route's climb segments.
The Climb Challenge screen shows different colors altitude map based on the gradient, distance remaining, and ascent remaining, giving you the climb information at-a-glance.
You can also check the climbs information in the saved route.Select **Course > Route > select a desired route > Climbs**.



Workout

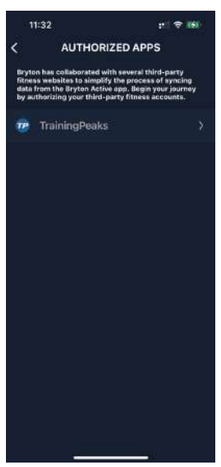
Create a Workout

Rider 550 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

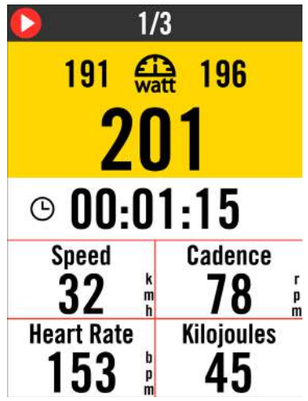
1. In Bryton Active App, select **Course > Workout Plan > My Workout > Plan Workout** to plan a training workout by selecting interval types and enter details.
2. Select a planned workout below and click "..." in the top right to download the workout to the device.

Import routes from 3rd-Party Platforms



1. Create a workout plan on TrainingPeaks website.
2. Enable TrainingPeaks auto sync in the
3. Course tab or in **My Workout > "+" >3rd party account link** to establish a link with the Bryton Active app.

Train with a Workout plan



Workout
1. Select **Course > Workout.**
2. You can see the workout plans, which are downloaded from the app.

Start Workout
1. Press(≡∨)to select the workout you would like to start with.
2. Press the(OK ● ❙❙)to start the workout

Cancel Workout
1. Press (⏻⌂) to return home.
2. Select **Course > Workout** to end current workouts. The recording continues.

Delete Workout
1. To delete the workout, select **delete**
2. Press(≡∨)to select the workout you want to delect
3. Press(∧)to Select delete
4. Press(OK ● ❙❙)to delect selected workout

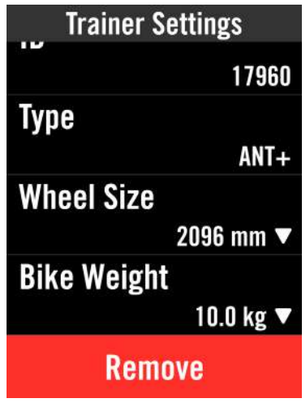
Save Workout
Save ride when doing a workout will also end the workout simultaneously.

Smart Workout
Training plans can be built with the Bryton Active App and downloaded directly to the Rider 550. With ANT+ FE-C support, the Rider 550 will communicate with your smart trainer to simulate the resistance from the training plan.

1. Select **Course > Smart Training > Workout**.
2. You can see the workout plans, which are synced from the app.

Smart Trainer

Set up a Trainer



1. Select **Course > Smart Training**
2. Select a smart trainer you want to connect to Rider 550.

Edit Information
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. Select **Remove** to select the smart trainer you want to remove.
3. If you stop peddling for a while, the smart trainer will automatically disconnect.

Resistance / Slope / Power

Select **Course > Smart Training > Set Resistance(Slope/Power)**.

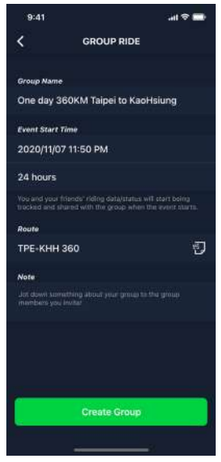
Start Resistance(Slope/Power) Workout
1. To adjust the intensity, long press (^) to activate/quit page control mode. In this mode, use (^ / ≡v) to adjust the intensity instead of changing meter pages.
2. You can switch to different control mode by selecting other options.
3. Resistance (Slope/Power) training will automatically stop when the Smart Trainer lost connection.

NOTE: You need to connect a smart trainer to the Rider 550 before having access to the 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 550 with the Bryton Active app on your smartphone.

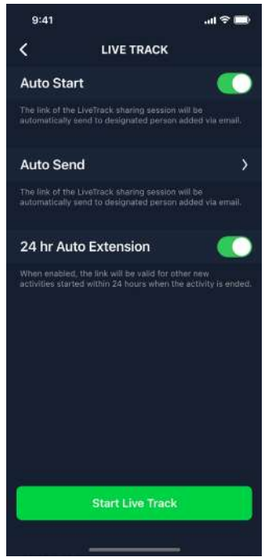


Create Group Ride
1. Select **Course** on Bryton Active app.
2. Select **Group Ride**
3. Tap on **Create New Group**
4. Enter all the details for the group ride.
5. You will need to have an existing route in the Bryton Active app. Go to Page 14 to see how to create a route.
6. Complete creating group ride
7. Turn on the Rider 550 and enter **Course > Group Ride.**
8. Select **Start Group Ride** to start riding.

Enter Group Code
1. Paste the code in the blank then press **Join or use the link to enter the group**
2. Turn on the Rider 550 and enter **Course>Group Ride.**
3. Select **Start Group Ride** to start riding.

LIVE TRACK

Share your real-time location with friends and family using the Live Track feature.Before using, please ensure that Rider 550 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.

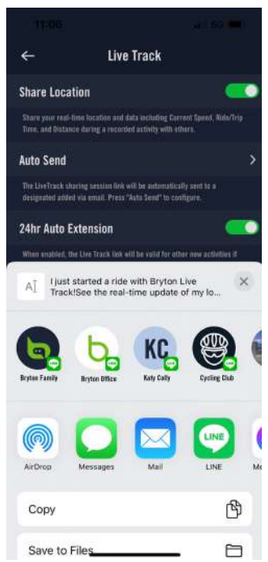
Note: Once Live Track is successfully activated, you can find the Live Track icon appears in the Quick Status Menu.

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.

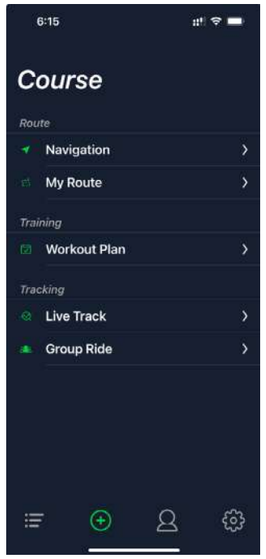
If you start a new ride within this 24-hour window, the link will display the new ride instead of the old one. This is useful when embarking on a multi-day bike trip or when sharing your daily commute, making it more convenient for family or friends to use the same link to track your progress.

End Live Track

When you end your ride, the Rider 550 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

Navigate on Bryton Active App



1. Pair the Rider 550 with Bryton Active
2. App, select **Course > Navigation**.
3. Input keywords or address or POI in the search bar then click .
4. Select a result from the search list.
5. Confirm the location then click **Plan Route**
6. to see the route.
7. Click **Download to Device** to start navigation on Rider 550.

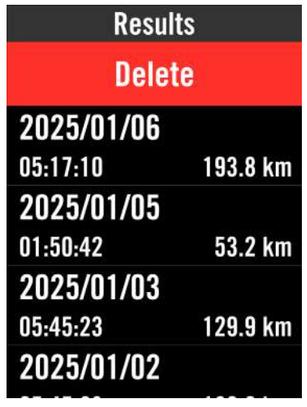
Results

You can view recorded activities on the Rider 650 or delete records to free more storage capacity of the device.

View Records

1.Select "**Menu > Result** " on the home page.
2. Pick a record to view details.

Delete Record



1. Select "**Menu>Results**" on the home page.
2. Press (OK ● II) to delete result.
3. Select the records you want to delete and then choose **Delete** again.
4. Press to confirm.

Settings

In Settings, you can customize Display, Sensors, System, Altitude, 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.

Data Page

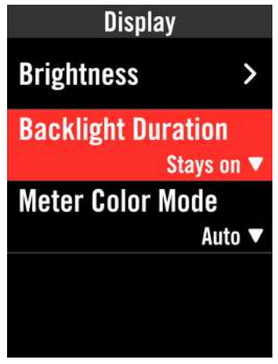
1. Press ∨ ☰ on the home page to enter data pages.
2. Press **OK** ● II to check Quick Status. Press C to scroll data pages.
3. Press ⏻ ⌂ to return to the home page
4. In Data page, press ∨ ☰ to start recording. While recording, press ↻ ⮌ to mark a lap. While recording, press ∨ ☰ to manually pause.

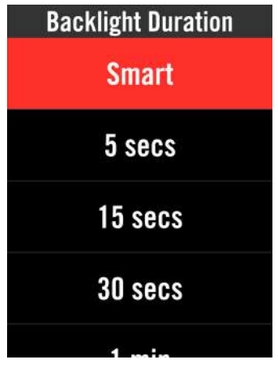
NOTE: You can change grid settings via Bryton Active App after pairing Rider 550 with your phone.

Display

You can change the display settings such as Brightness, Backlight, and Contrast.

1. Select **Menu > Settings**
2. Select **Display > Backlight**





1. Select **Menu > Settings**
2. Select **Display > Brightness**.

Brightness
You can choose to set the brightness as **Auto** on or off. Automatically adapt device display based on ambient lighting conditions to make colors appear consistent in different environments.

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.

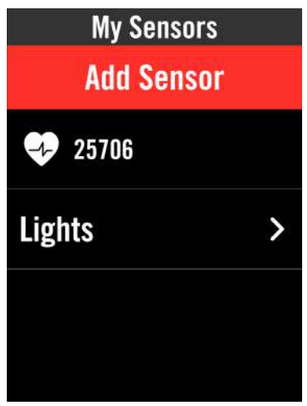
Pair Sensors

Pair your sensors with the device beforehand. Rider 550 will scan nearby active paired sensors, making switching between bikes and sensors easier and more convenient.

1. Long press ≡v to enter the menu.
2. Select **Menu > Settings > Sensors**

Add New Sensors

1. Select **Add New** 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.



Deactivated sensors

1. Select the sensor you would like to deactivate.
2. Press **OK** ● II to turn off the status then sensors will be deactivated.

Activate Paired Sensors

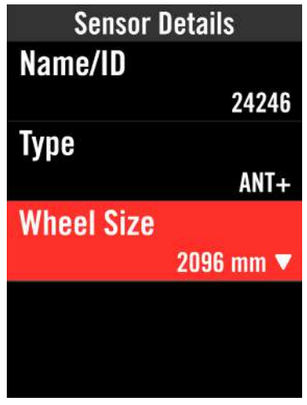
1. Select the sensor you would like to activate.
2. Press **OK** ● II to turn on sensor status then sensors will be connected automatically.
3. If the sensor fails to be connected or you want to switch to this sensor, select to reconnect it with your device.

Remove sensors

1. Choose the sensor you would like to remove.
2. Select **Remove** to remove the sensor.

Switch Sensors

1. If another paired sensor is detected, the device will ask you if you want to switch to another sensor.
2. Press **OK** ● II to switch the sensor.



NOTE:

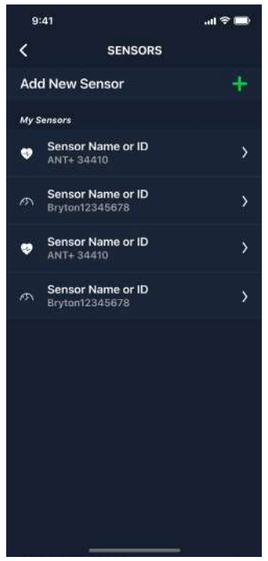
- If you select X in the sensor found notification, the detected sensor would be deactivated. You will need to turn on its Status to activate it again.
- Sensors only need to be switched if they are in the same type and both are already added in the list.

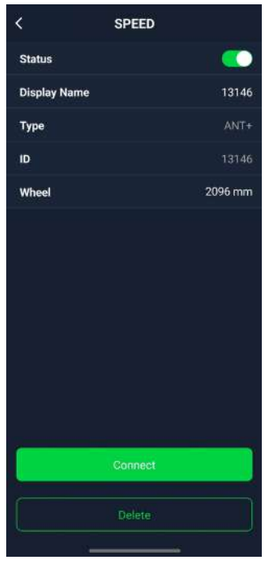
Using Electronic Shifting Systems

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.

1. Select **Menu > Settings > Sensor >Add Sensor**.
2. Select the Di2 and pair.
3. Enter Sensor Details to input the tooth numbers.

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**.

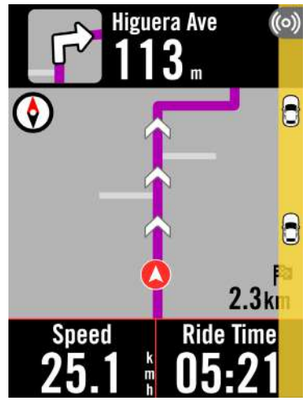
Switch Sensors

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.



	Bike radar is connected.
	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 550.

Using E-bike

The Rider 550 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 550.
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

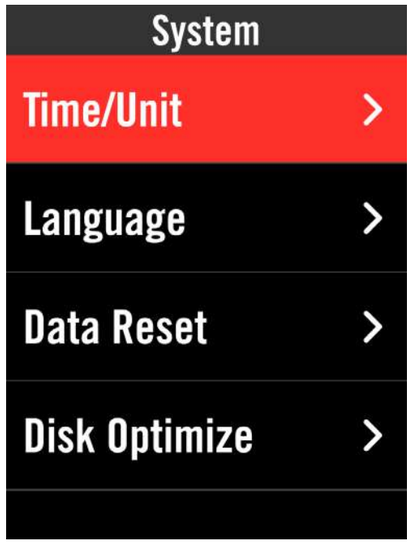
1. Long press down to enter the menu.
2. Select **Menu > Settings > System**

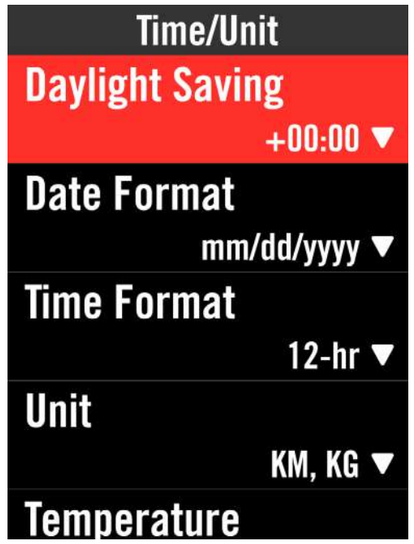
Language
1. Select your desired language.
(or you can set it up on Bryton Active APP)

Time / Unit
1. Select Daylight Saving, Date Format, Time Format, Unit, and Temperature to change the settings.

Data Reset
1. Choose Data reset to restore Rider 550 to its original factory settings. All your settings and ride logs will be erased.

Disk Optimize
1. Choose Disk Optimize to free up disk space to improve the performance. All your settings remain while ride logs will be erased.





Altitude

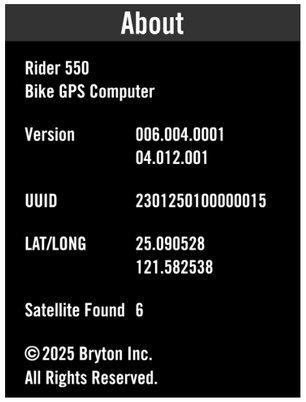
With Internet connection, Bryton Active app provides altitude information for you to calibrate directly. You can also change altitude manually.

Calibrate Altitude
1. Long press down to enter the menu.
2. Select **Menu > Settings > Altitude**
3.Select **Calibrate**
4.Press Up and Down to adjust to change the value.

NOTE:
1. The value of altitude on the meter mode will be changed once current altitude is adjusted.
2. You can choose the theme color you prefer here.

About

You can view your device's current firmware version.
1. Long press down to enter the menu.
2. Select **Menu > Settings > About**
3. Firmware information and current latitude and longitude will show on the device.



Profile

You only can edit the Profile via Bryton Active App. Just edit your profile info in the profile tab in Bryton Active. Once the device is connected to the app, your profile info will be updated to your Rider 550.

About Me

In Profile,select **About Me**, you can browse and personalize your information.

Heart Rate Zone&Power Zone

1. Select **PROFILE > Heart Rate Zone&Power Zone** and tap to edit details.

Customize Heart Rate Zone

1.Select **MHR/ LTHR**.
2.Press to edit details for each zone.
3.Scroll up and down to edit more zones.

Customize Power Zone

1.Select **FTP**.
2.Press to edit details for each zone.
3.Scroll up and down to edit more zones.

Bryton App Settings

After pairing your Rider 550 with Bryton Active App, you can set up more Settings and recevie notifications.

General Setting

Keytone

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

Sound

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

ODO

the cumulative distance of all trips while you are using Rider 550.

Notifications

After pairing your compatible smartphone via Bluetooth with Rider 550, you can receive phone calls, texts and email notifications on your Rider 550.

1. **iOS Phone Pairing**
   a. Go to your phone “Settings>Bluetooth” and enable Bluetooth.
   b. Go to Bryton Active 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.

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

2. **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 Tap onping each item.

Appendix

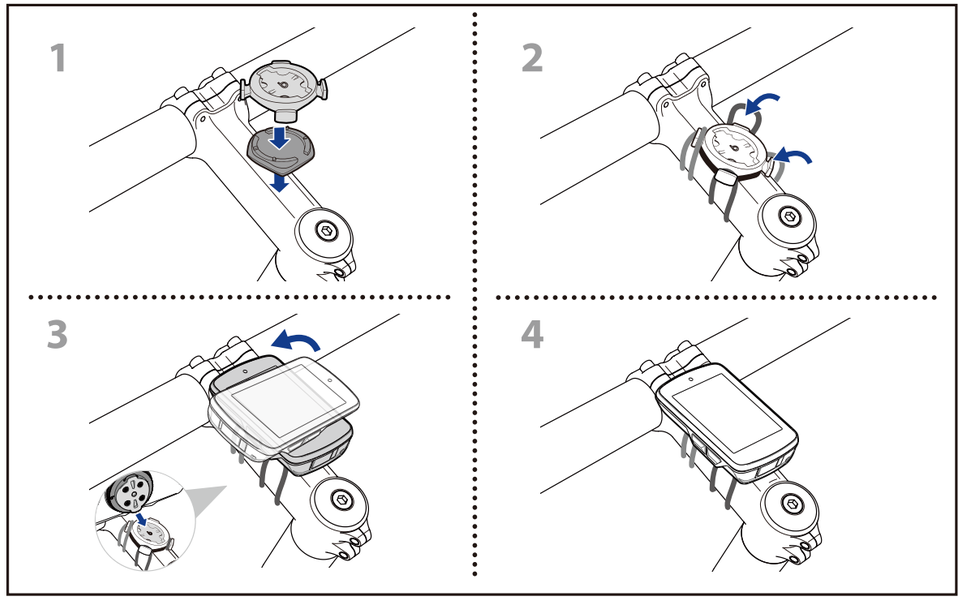
Specification

Rider 550

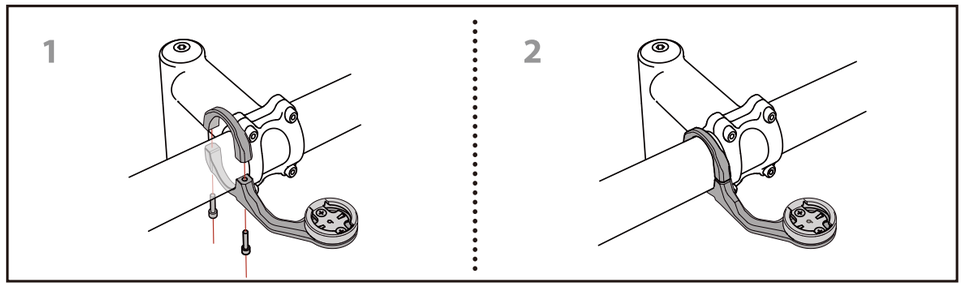
Item	Description
Physical Size	84.5x56.8x16 mm
Weight	86 g
Operating Temperature	-10°C ~ 60°C
Battery Charging Temperature	0°C ~ 40°C
Battery	Li polymer rechargeable battery
Battery Life	37 hours with open sky
ANT+™	Featuring certified wireless ANT+TM connectivity. Visit www.thisisant.com/directory for compatible products.
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 550

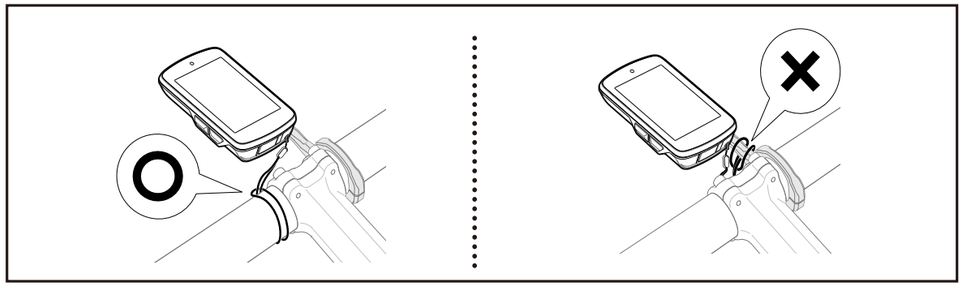
Use Bike Mount to Mount Rider 550 (Optional)



Use Sport Mount to Mount Rider 550 (Optional)

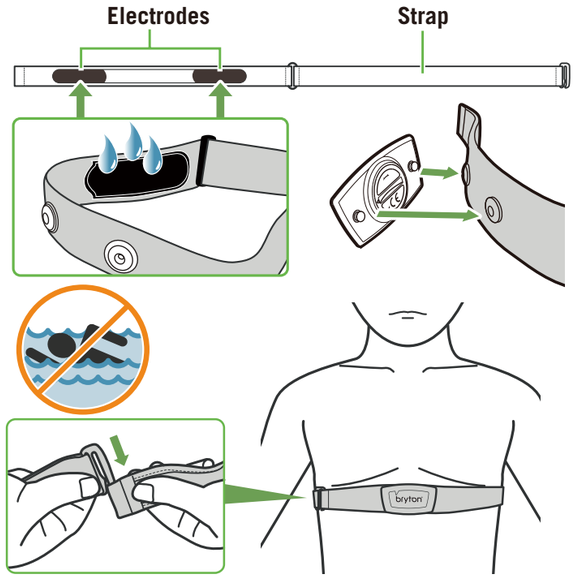


Safety Lanyard

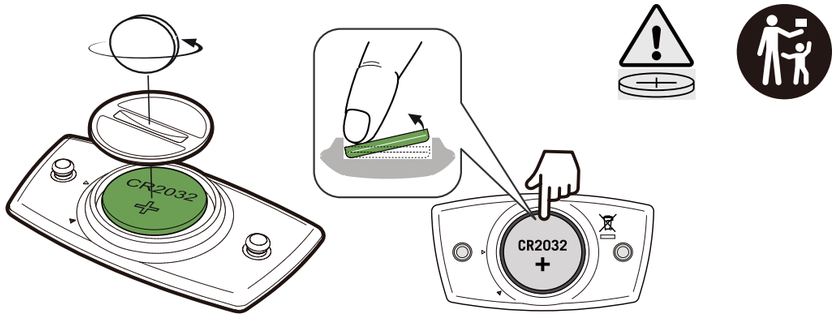


Install Heart Rate Belt (Optional)

Install Heart Rate Belt (Optional)



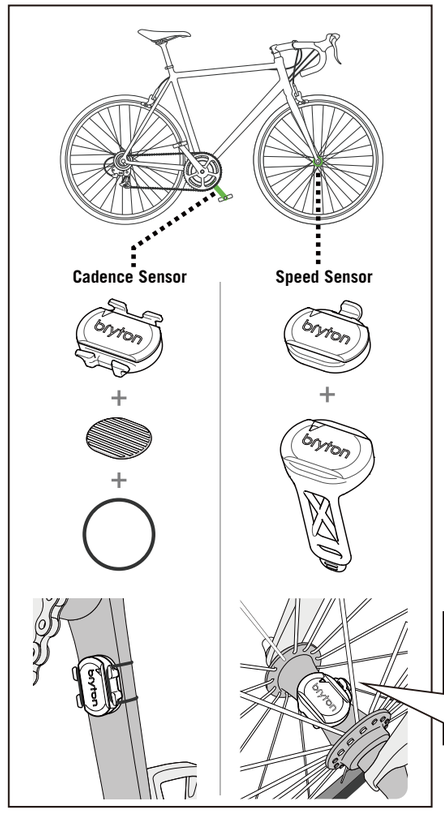
Accuracy may be degraded by poor sensor contact, electrical interference, and receiver distance from transmitter.
The Bryton Smart HR Sensor contains a user-replaceable CR2032 battery.

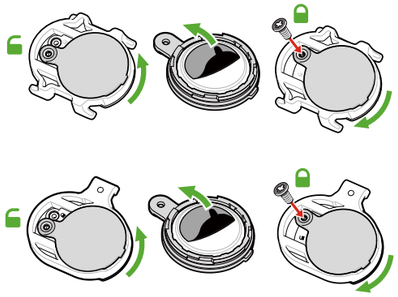


Detach if no use. Hand wash after use.

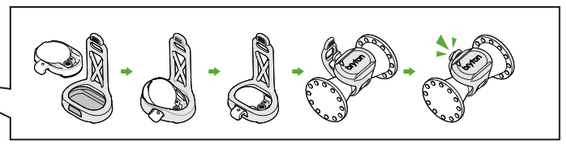
To prolong the life of your heart rate monitor, detach the sensor and clean the strap after every use.

Install the Speed / Cadence / Dual Sensor (Optional)





Remove battery tab before use.
The Bryton Smart Speed / Cadence Sensor contains a user-replaceable CR2032 battery.



⚠ WARNING

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. **Do NOT** dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Battery type :CR2032 ; Battery voltage :3VDC.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical bums.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and **keep them away from children**.

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
700xI8C	2070
700xI9C	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 loss 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 pedaling 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 displays in dynamic colored graphical mode.
	SPD Bar	
	CAD Ring	The current cadence displays in dynamic colored graphical mode.
	CAD Bar	
	HR Ring	The current heart rate displays in dynamic colored graphical mode.
	HR Bar	
	PW Ring	The current power rate displays in dynamic colored graphical mode.
	PW Bar	
	3s PW Ring	3 seconds average of power displays in dynamic colored graphical mode.
	10s PW Ring	10 seconds average of power displays in dynamic colored graphical mode.
	30s PW Ring	30 seconds average of power displays in dynamic colored 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 550

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.

CE

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:
http://www.brytonsport.com/download/Docs/CeDocs_Rider 650.pdf

bryton®

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