



Rider 510
Performance GPS
Bike Computer

使用手冊

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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 S510.

Rider S510 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 (● 11):

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 ($\circlearrowleft \triangle / \bullet II / \bigcirc / \equiv)$ at the same time to reboot the device.

Accessories

The Rider S510 E SKU comes with the following accessories:

USB Cable



Bike Mount

Safety Landyard



Optional items: (Include in T Sku)

Smart Heart Rate Monitor



Smart Speed Sensor

Smart Cadence Sensor



Optional items:

Sport Mount



Rider S510 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.







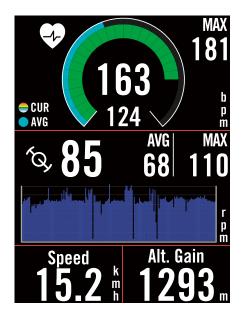
- In meter page, long press to edit the cycling grid and scroll up and down to select desired cycling data.
- Select to return to the previous page.

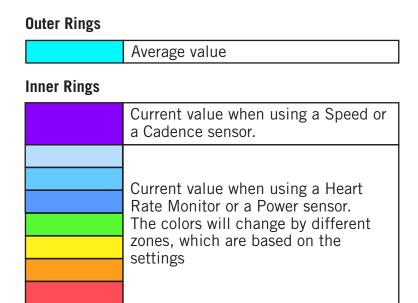


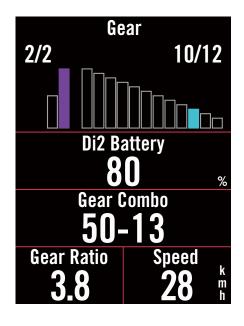


 In meter page, single tap to show the Quick Status page and customize if you like.

GUI Display







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:

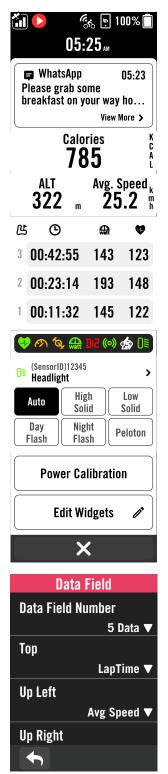
Please go to page 51 to see more details for setting Heart Rate Zone and Power Zone Please go to page 5 to see how to edit data grids in meter page. Select "Graph" in the grid category, if you want to display the data in graphic mode.

Bar Chart for Di2/E-Shifting

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 different 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.

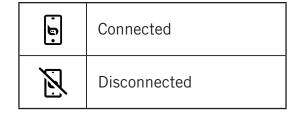
Recording Status

•	Recording Pause		
0	Stop / Not Recording		
0	Recording		

Sensors Battery Status



Active App connecting Status



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

lcon	Description	lcon	Description	lcon	Description
	Screen Locked	Ç⊗	Status Off	4	Zoom In
0	Recording	•	Heart Rate Sensor		Zoom Out
0	Recording Pause	M	Speed Sensor Active		Move the Map
100%	Device Battery	6	Cadence Sensor	•	Location
×	Unable GPS	(E)	Combo Sensor	N	Compass Mode
×	GPS Off / No Signal (not fixed)	watt	Power Meter Active	•	Heading Mode
	Weak Signal	Di5	Di2		Destination
*11	Strong Signal	43	E shifting	₩	Route Distance
	GPS Data Update	((0))	Radar	I	Altitude Gain
M.	LiveTracking	O1O STEPS	E-bike (Shimano)	=	Climb Section
Ø	Phone Disconnected	O-LO LEV	E-bike (LEV)	#_	Climb Challenge
ė	Phone Conncected	01	Light	⇄	Retrace Ride
ಿಂ	Commute	•	Voice Search	町	Input ID
<u>૾</u>	Road	Ŵ	Delete	®	Connect
<u> </u>	Indoor	**	Workout Step Control	+	Add New
å ⊆	МТВ	•	Add a Pin	<u>(i)</u>	Information
<u></u>	Gravel	•	Route Ending Point		Saved Workouts /Location
%	Cyclecross	•	Route Starting Point	₹ <u>L</u>	History
₹Ź	Smart Bike Trainer	$\stackrel{\frown}{\Box}$	Favorite	<u> </u>	Route

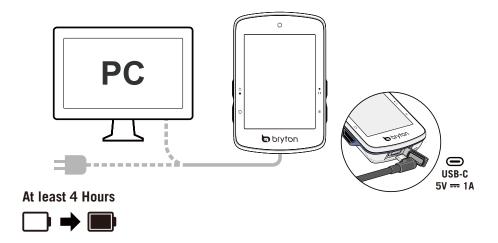
NOTE:

When you seen this for the GPS signal, it means the device is keeping the ephemeris data, which will help the dvice acquire the GPS signal faster. The data will remain in 1 to 2 weeks, and needs to be updated.

Step 1: Charge your Rider S510

Charge the Rider S510 battery for at least 4 hours.

Unplug the device when it is fully charged. You may see the battery icon 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.



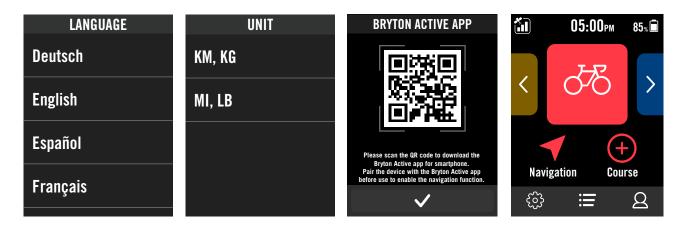
Step 2: Turn On Rider S510

Press \circlearrowleft to turn on the device.

Step 3: Initial Setup

When powering on the Rider S510 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 S510 with your cellphone.
- 4. Go through the starting tutorial before riding.

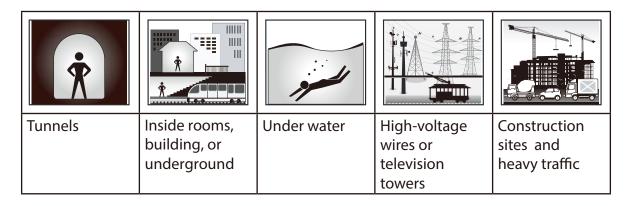


Step 4: Acquire Satellite Signals

Once the Rider S510 is turned on, it will automatically search for satellite signals. It may take 30 to 60 seconds to acquire signals for first time use.

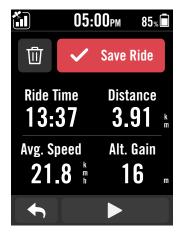
- The GPS signal Icon () appears when GPS is fixed.
- If GPS signal is not fixed, a ^x
 icon appears on the screen.
- If GPS function is disable, a icon shows on the screen.

Please avoid obstructed environments since they might affect GPS reception.



Step 5: Ride with Rider S510

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 ●II to start recording, press ●II again to pause recording.
- 2. Choose to Discard or Save the result to end riding.
- 3. Choose \leftarrow to go to the meter page to see your cycling data. Then tap on \leftarrow to go back to the previous page.
- 4. Tap on

 or press II to continue recording.
- 5. Rider S510 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 S510 to PC

- a. Connect Rider S510 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 S510 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 S510 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

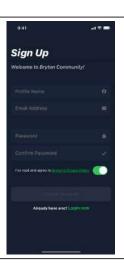
No more uploading tracks manually after riding. Bryton Active App automatically syncs your track after pairing with your GPS device.

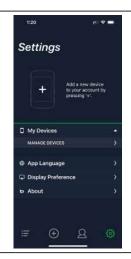
Sync via BLE

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 S510 to add your GPS device.





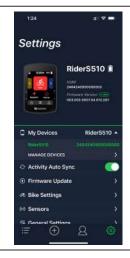




b-2. Check if the UUID shown on app is the same as your device. Select "OK" to confirm adding this device. If the UUID does not match, press Cancel and try again.

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 http://www.brytonsport.com/#/supportResult?tag=BrytonTool 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.

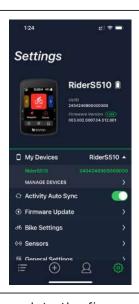
Update via Active app

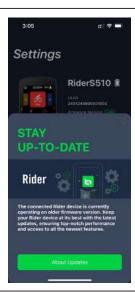
You can choose to update the firmware via bluetooth or with a Bryton USB cable.

For iOS phone

a.Connect the Rider S510 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.

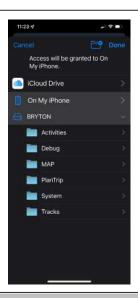




c. Choose to update the firmware with the Bryton cable or Bluetooth. You will need a **USB-C to USB Adapter** with Bryton original cable. Make sure the smartphone is connected to the device. Select the **"BRYTON"** root folder to allow Bryton Active app gets permission to access the device for downloading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







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

For Android phone

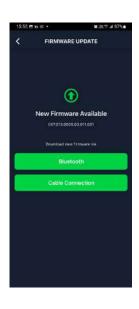
a.Connect the Rider S510 to your phone via Bluetooth.

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

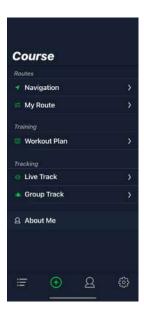
Route

Create Track

Rider S510 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 S510, you are able to follow the route guidance. Rider S510 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 S510 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 **b** to start the navigation.

Navigate to the Start/Nearest Point on route

When you start to follow a route, Rider S510 will ask if you want to navigate to the start or not. Once you get on the route, Rider S510 will guard you to the route finish.

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



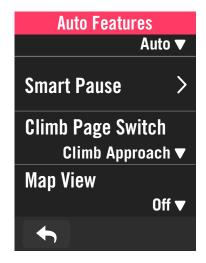
Press " Cancel " to receive guidance to the nearest point on route.

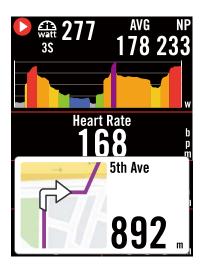


Climb Challenge 2.0

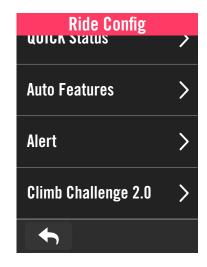
When you approach a climb, the Rider S510 will change to the Climb Section page, providing an overview of a route's climb segments. The Climb Challenge screen shows a color-coded altitude map based on the gradient, distance remaining, and ascent remaining, giving you the climb information at-a-glance.

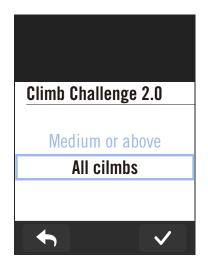
You can disable the auto switch in **Settings > Bike Settings > Bike Profile > Ride Config > Auto Features > Climb Page Switch**.





With Climb Chilenge 2.0 enabled, Rider S510 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 S510 provides 2 ways to create workout:

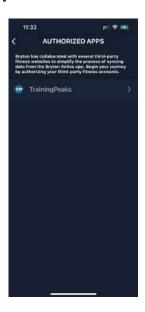
- 1. Plan workout via Bryton Active App.
- 2. Import workout from 3rd party platforms.

Plan workout via Bryton Active App



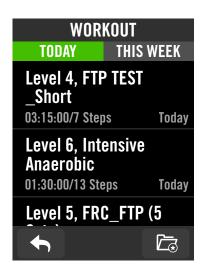
- In Bryton Active App, select Course > Workout Plan >
 My Workout > Plan Workout to plan a training workout by
 selecting interval types and enter details.
- 2. Select a workout and click "..." in the top right to download the workout to the device.
- You can also plan workouts for a long period by selecting Course > Workout Plan > Training > "+" to copy from existing workouts or plan a new workout for different dates.
- 4. Click "..." in the top right to sync the workout plan for the next 7 days.

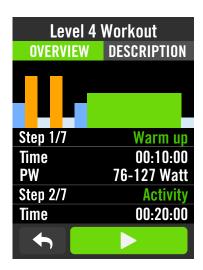
Import routes from 3rd-Party Platforms

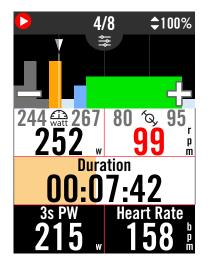


- 1. Create a workout plan on TrainingPeaks website.
- Enable TrainingPeaks auto sync in the Profile tab or in My Workout > 3rd Party Connection to enable TrainingPeaks auto sync.
- Or you can also add workouts on the calendar from My Workout by entering Course > Workout Plan > Training > "+", click 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







- 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 if then select the workout(s) and click if again to delete.
- 2. Select \(\square\) to confirm.

Start Workout

- 1. Select the workout you would like to start with.
- 2. Select ▶ to be ready for the workout, then press II button to start the workout.

Stop Workout

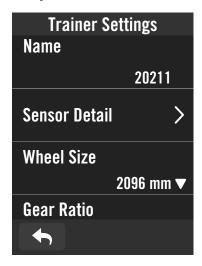
- 1. Press ●II to pause workout, then select ▶ to return to workout or select ✓ to save the record or click to delete the record.
- 2. Choose \leftarrow to go to the meter page to see your cycling data. Then tap on \bigcirc to go back to the previous page.

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 S510, please download the workout from the app to the device.information.

Smart Trainer

Set up a Trainer



- 1. Select **Courses** in the home page.
- 2. Find Smart Trainer.
- 3. Tap + to connect a smart trainer to Rider S510.

Edit Information

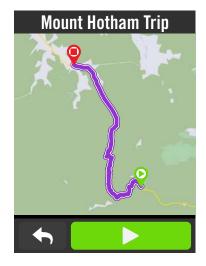
- 1. After connected smart trainer to the Rider S510, it will switch to the **Smart Trainer** page.
- 2. Go to **Trainer Settings** to enter Wheel Size, Gear Ratio, and Bike Weight to set up a smart trainer profile.

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 S510 will work seamlessly with most smart trainers and can simulate planned routes from the Bryton Active App.



- 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 X to stop the ride.
- 2. Select Save to save the record.
- 3. Select **Discard** to discard the record.
- 4. Select \checkmark to confirm.

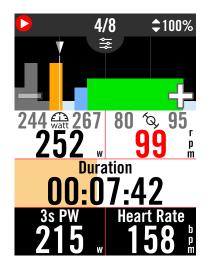
Delete Routes

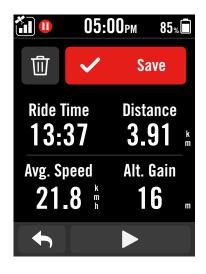
- 1. To delete the route, Click in and select routes you would like to remove.
- 2. Select ✓ to confirm.

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 S510. With ANT+ FE-C support, the Rider S510 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 if then select the workout(s) and click if again to delete.
- 2. Select ✓ to confirm.

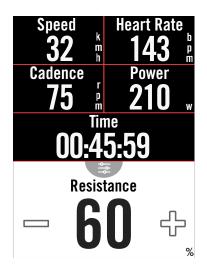
Start Workout

- 1. Select the workout you would like to start with.
- 2. Select **to be ready for the workout, then press** II button to start the workout.

Stop Workout

- 1. Press II to pause workout, then select ▶ to return to workout or select ✓ to save the record or click III to delete the record.
- 2. Choose \leftarrow to go to the meter page to see your cycling data. Then tap on \leftarrow to go back to the previous page.

Resistance

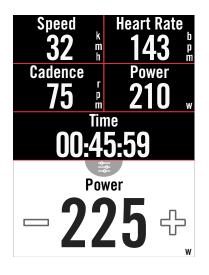


- 1. Select **Courses** in the home page.
- 2. Select Smart Trainer > Resistance.

Start Resistance Workout

- 1. Switch to different zones by tapping or adjust resistance level by clicking + / .
- 2. Select **b** to start training.
- 3. Resistance training will automatically stop once you start Virtual Ride or when the Smart Trainer lost connection.

Power



- 1. Select **Courses** in the home page.
- 2. Select **Smart Trainer > Power**.
- 3. Switch to different zones by tapping or adjust resistance level by clicking + / .
- 4. Tap on by 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 S510 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 S510 with the Bryton Active app on your smartphone.



Create Group Ride

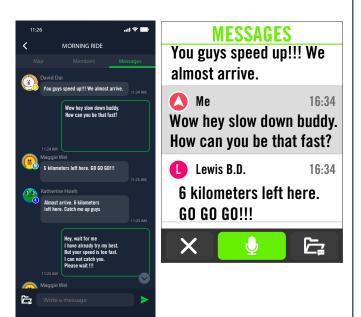
- 1. Select **Course** on Bryton Active app.
- 2. Select Group Ride.
- 3. Tap on Create New Group.
- 4. Enter all the details for the group ride.
- 5. You will need to have an existing route in the Bryton Active app. Go to Page 16 to see how to create a route.
- 6. Complete creating group ride.
- 7. Turn on the Rider S510 and enter **Menu** and select **Group Ride**.
- 8. Press to start riding.

Enter Group Code

- 1. Paste the code in the blank then press Join.
- 2. Turn on the Rider S510 and enter **Menu** and select **Group Ride**.
- 3. Press to start riding.

Group Chat

Rider S510 and Bryton Active app allow you to send messages to the members in the group.



On App

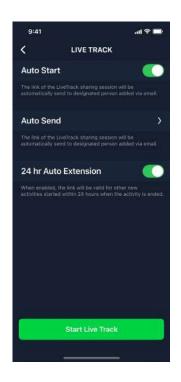
- 1. Tap on Chats, then type a message or click ☐ to send a quick response.
- 2. 2. You can select **Edit** on the top right corner to modify the quick responses.

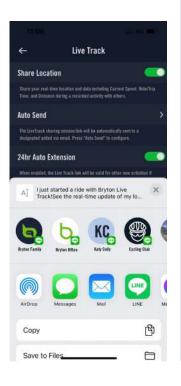
On Rider S510

- 1. Switch to Chats page, then press to enter messages.
- 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 S510 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.

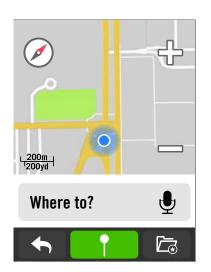
End Live Track

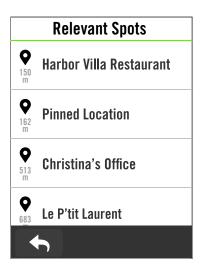
When you end your ride, the Rider S510 will display a "Live Track ended" notification to let you know your ride is no longer being tracked. You can also end the live track from the Bryton active app by pressing the End Live Track button at the bottom.

Navigation

With connection to the internet, you can use your voice to search for locations on the Rider S510 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 home page.

Search Location by Voice Search

- 1. Tap the icon \bullet 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.

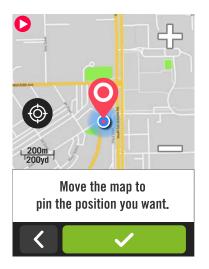
Adjust to More Accurate Position

- 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 $\underline{\circ}_{\underline{\circ}}^{\underline{o}}$ to view the route to your destination.
- 2. Tap on to start navigation.

Pin a Location



Select **Navigation** in the home page.

Locate Your Current Position

- 1. Before locating your position, make sure you locate satellite.
- 2. Tap on 🍥 to locate your current position.

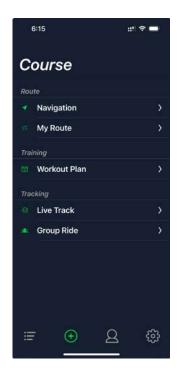
Navigate by Dropping a Pin

- 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 \Leftrightarrow / \longrightarrow to adjust map size.

Generate a Route

- 1. Select $\circ_{\underline{S}^{\underline{Q}}}$ to view the direction to your destination.
- 2. Tap on to start navigation.

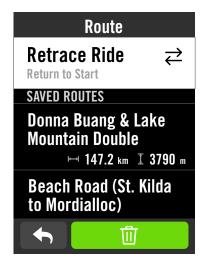
Navigate on Bryton Active App



- 1. Pair the Rider S510 with Bryton Active App, select **Course** > **Navigation**.
- 2. Input keywords or address or POI type in the search bar then click \mathbf{Q} .
- 3. Select a result from the search list.
- 4. Confirm the location then click **Navigate** to see the route.
- 5. Click in the top right to download the route to the device to start the navigation.
- 6. S510 will start following the route on the screen.

Retrace

When you want to return back to your starting location, the Rider S510 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!







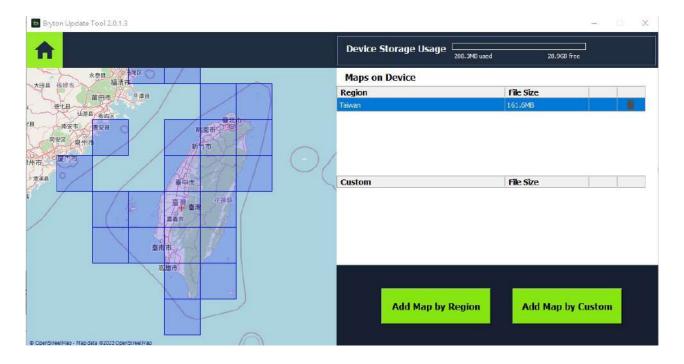
- When recording, swipe up to return to the Home Page.
 Go to Course > Route > Retrace Ride.
- 2. The device will generate a route for leading you back to the starting point via the exact same path you took at first. Follow the arrows to the right direction.

NOTE:

You need to start recoding a ride before using retrace feature.

Download Maps

The Rider S510 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 S510 to your PC via Bryton original USB cable.
- 3. Wait until S510 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.

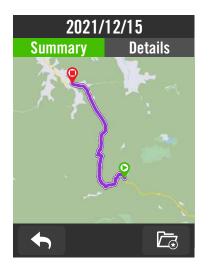
NOTE:

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

Results

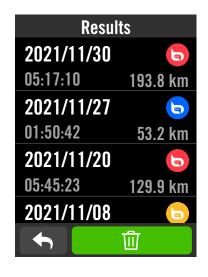
You can view recorded activities on the Rider S510 or delete records to free more storage capacity of the device.

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 iii to enter the delete page.
- 3. Choose the record(s) then tap in to delete the record.
- 4. Press ✓ to confirm.

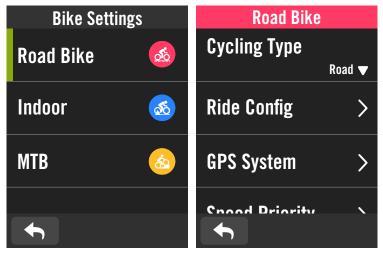
Settings

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 S510 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.

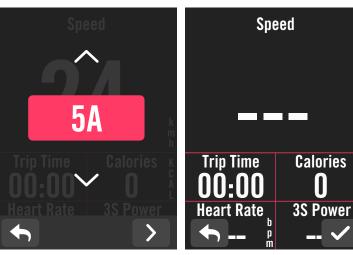
Ride Config



Select (Settings > Bike Settings.

Edit Ride Config

Select Cycling Tyap to view or edit more settings.



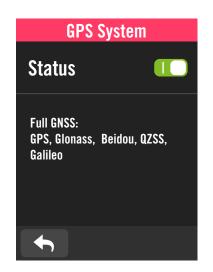
Select ﴿ Settings > Bike Settings > Ride Config > Data Page

- 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 automactically sync to the device once you make sure the Rider S510 is connected to the app.

GPS System

Rider S510 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 $\{ \hat{y} \}$ in the home page.
- 2. Select Bike Settings.
- 3. Select a bike > **GPS System**.

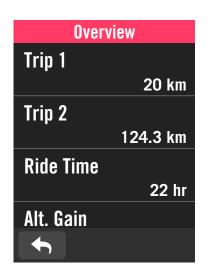
Enable GPS System

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.

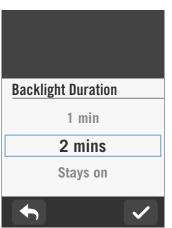
Trip 1 and 2 will show in the same value before you reset one or each of them.

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.





- 1. Select () in the home page.
- 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

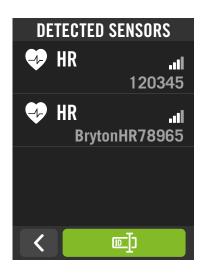
Swipe up and down for selecting preferred duration.

Meter Color Mode

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

Pair Sensors

We suggest that you pair all your sensors with the device beforehand, Rider S510 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 \checkmark to confirm.

Switch Sensors

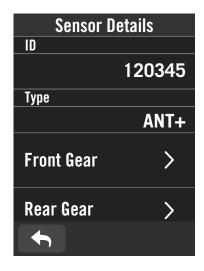
- 1. If another paired sensor is detected, the device will ask you if you want to switch to another sensor.
- 2. Tap \checkmark to switch the sensor.

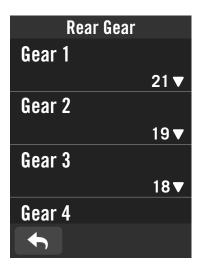
NOTE:

- 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

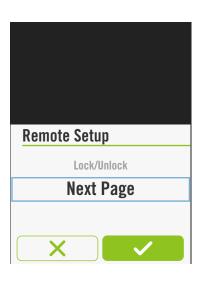
After pairing electronic shifters, such as Shimano Di2 or SRAM, you can enter the sensor pages for further settings. To customize the data grids on meter pages, please go to page 5 for more instruction.





- 1. Select $\{\hat{c}\}$ in the home page.
- 2. Find Sensors.
- 3. Select the electronic shifter you paired.
- 4. Enter Sensor Details to input the tooth numbers.

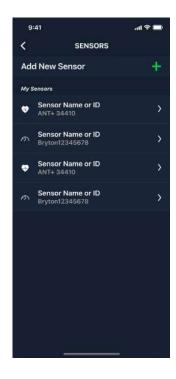


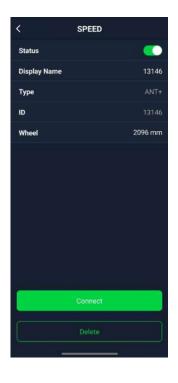


Remote Setup

- 1. Enter Remote Setup. Tap ✓ to add or choose it.
- 2. Click on \bigvee 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 **0K** 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.

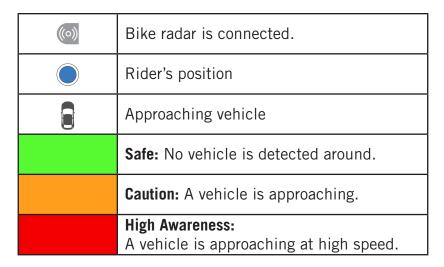
NOTE:

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.



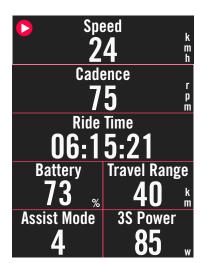


NOTE:

- 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 S510.

Using E-bike

The Rider S510 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.



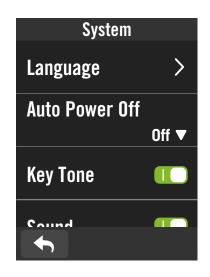
- 1. Before you can use a compatible e-bike, you must pair it with the Rider S510.
- 2. You can customize the compatible e-bike data fields.

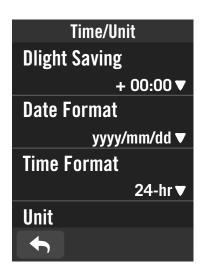
System

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.





- 1. Tap දිරි in the home page.
- 2. Select System > System Settings.

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

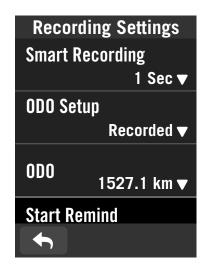
Turn on or off **Sound** to change the settings for alerts and notifications.

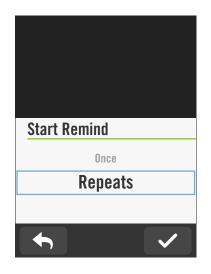
Time / Unit

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.





- Select ⟨o⟩ in the home page.
 Select System > Recording Settings.

Smart Recording

- 1. Set your desired smart recording time.
- 2. Select ✓ to confirm.

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

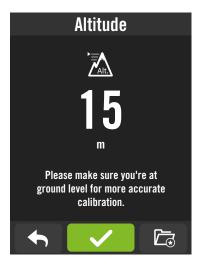
- Select ⟨₀⟩ in the home page.
 Find System > Recording Settings > Start Remind.
- 3. Select ✓ to confirm.

NOTE:

All means the odometer would show the cumulative distance of all trips; Recorded would only show the cumulative distance of recorded trip.

Altitude

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



Calibrate Altitude

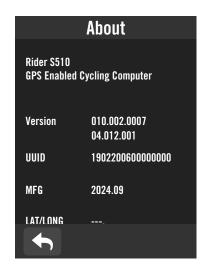
- 1. Choose $\{c\}$ in the home page.
- 2. Select Altitude.
- 3. Click on the number to change the value.
- 4. Select ✓ to confirm.
- 5. You can also save particular locations for auto calibrating. Find $\overline{L_{\star}}$ and set the positions.

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.

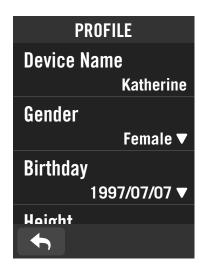


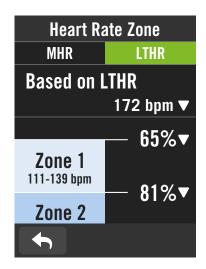
- Select ¿ô; in the home page.
 Select About.
- 3. Firmware information and current latitude and longitude will show on the device.

Profile

In Profile, you can browse and personalize your information.

Personal Information





- 1. Select Ω 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 S510 with Bryton Active App, you will have access to Notifications.

Notifications

After pairing your compatible smartphone using Bluetooth with Rider S510, you can receive phone calls, texts and email notifications on your Rider S510.

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

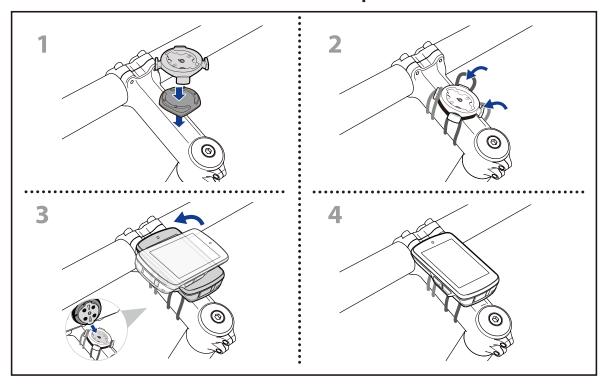
Specification

Rider S510

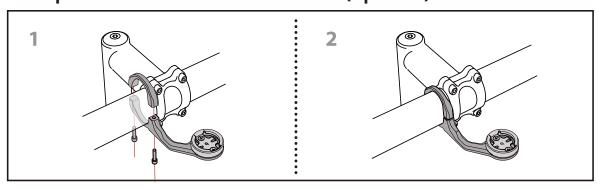
Item	Description	
Display	2.8" Color TFT Capacitive Touch Screen	
Physical Size	87.2 x 56.8 x 14.9 mm	
Weight	96 g	
Operating Temperature	-10°C ~ 60°C	
Battery Charging Temperature	0°C ~ 40°C	
Battery	Li polymer rechargeable battery	
Battery Life	30 hours with open sky	
ANT+™	Featuring certified wireless 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 OdBm	
Water Resistant	Water resistant to a depth of 1 meter for up to 30 minutes.	
Barometer	Equipped with barometer	

Install Rider S510

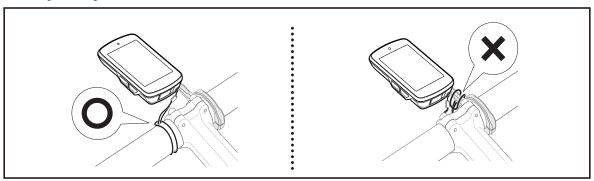
Use Bike Mount to Mount Rider S510 (Optional)



Use Sport Mount to Mount Rider S510 (Optional)

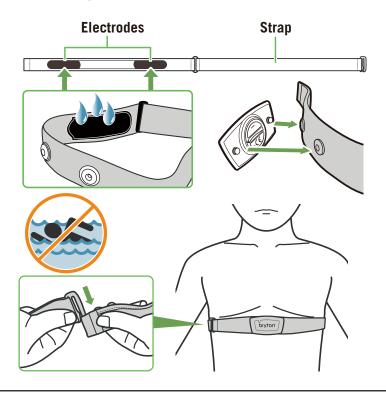


Safety Lanyard



Install Heart Rate Belt (Optional)

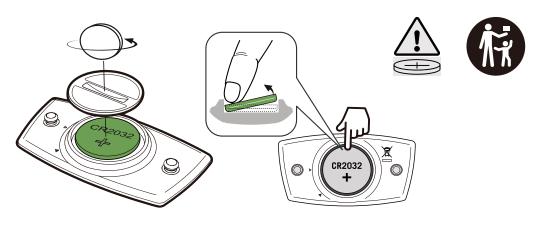
Install Heart Rate Belt (Optional)





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.

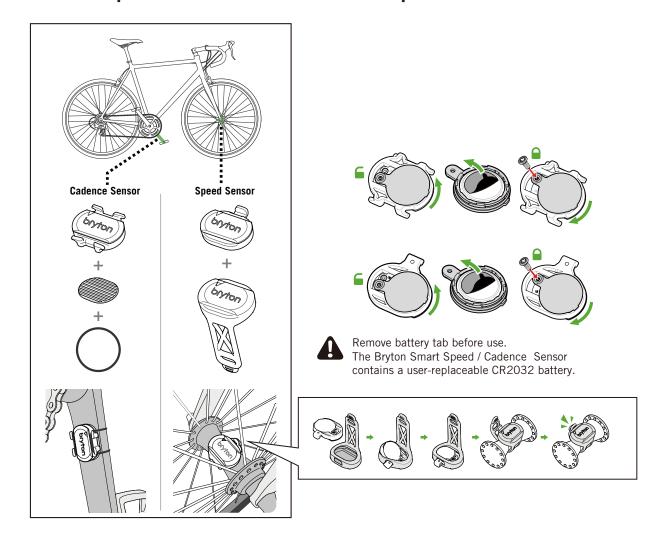






To prolong the life of your heart rate monitor, detach the sensor and clean the strap after every use.

Install the Speed / Cadence / Dual Sensor (Optional)



A 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 1920 650x20C 1938 650x23C 1944 650 x 25C 26 x1 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 700x19C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x30C 2146 700x30C 2168 700x38C 2168 700x40C 2200 700x42C 2244 700x49C 2224 700x49C 2224 700x49		
26x1-1/8 1970 26x1-3/8 2068 26x1-1/2 2100 650C Tubular 26 1920 650x20C 1938 650x23C 1944 650 x 25C 26 x1 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 700x19C 2080 700x20C 2086 700x23C 2096 700x25C 2105 700x28C 2136 700x30C 2146 700x30C 2146 700x35C 2168 700x36C 2168 700x38C 2180 700x42C 2224 700x42C 2224 700x42C 2224 700x42C 2224 700x42C 2224 700x45C 2242 <td< th=""><th>Wheel Size</th><th>L (mm)</th></td<>	Wheel Size	L (mm)
26x1-3/8 2068 26x1-1/2 2100 650C Tubular 26 1920 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 700x18C 2070 700x29C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x30C 2146 700x35C 2168 700x36C 2168 700x40C 2200 700x42C 224 700x42C 224 700x42C 2242 700x42C 2242 700x45C 2242 700x47C 2268 <td< td=""><td>26x3,00</td><td>2170</td></td<>	26x3,00	2170
26x1-1/2 2100 650C Tubular 26 1920 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 700x18C 2070 700x19C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x30C 2146 700x35C 2168 700x35C 2168 700x40C 2200 700x42C 224 700x42C 224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	26x1-1/8	1970
650C Tubular 26 x7/8 650x20C 1938 650x23C 1944 650 x 25C 26 x1 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 700x19C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x44C 2235 700x47C 2268 29x2,1 2288 29x2,2 2298	26x1-3/8	2068
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 700x18C 2070 700x29C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	26x1-1/2	2100
650x23C 1944 650 x 25C 26 x1 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 700x18C 2070 700x29C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298		1920
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(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 700x18C 2070 700x20C 2080 700x23C 2096 700x25C 2105 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	650x23C	1944
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 700x19C 2080 700x20C 2086 700x23C 2096 700x25C 2105 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x40C 2200 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298		1952
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 700x18C 2070 700x19C 2080 700x20C 2086 700x23C 2096 700x25C 2136 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x40C 2200 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	650x38A	2125
27x1-1/8 2155 27x1-1/4 2161 27x1-3/8 2169 27,5x1,50 2079 27,5x2,1 2148 27,5x2,25 2182 700x19C 2080 700x20C 2086 700x23C 2096 700x28C 2136 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x44C 2235 700x47C 2268 29x2,1 2288 29x2,2 2298	650x38B	2105
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 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27 x 1 (630)	2145
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 700x30C 2146 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27x1-1/8	2155
27,5x1,50 2079 27,5x2,1 2148 27,5x2,25 2182 700x18C 2070 700x19C 2080 700x20C 2086 700x23C 2096 700x25C 2105 700x30C 2146 700x30C 2146 700x 32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27x1-1/4	2161
27,5x2,1 2148 27,5x2,25 2182 700xl9C 2080 700x20C 2086 700x23C 2096 700x25C 2136 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27x1-3/8	2169
27,5x2,25 2182 700xl8C 2070 700xl9C 2080 700x20C 2086 700x23C 2096 700x25C 2105 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27,5x1,50	2079
700x18C 2070 700x19C 2080 700x20C 2086 700x23C 2096 700x25C 2105 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27,5x2,1	2148
700x19C 2080 700x20C 2086 700x23C 2096 700x25C 2105 700x28C 2136 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	27,5x2,25	2182
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	700xI8C	2070
700x23C 2096 700x25C 2105 700x28C 2136 700x30C 2146 700x32C 2155 700C Tubular 2130 700x35C 2168 700x40C 2200 700x42C 2224 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700xI9C	2080
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	700x20C	2086
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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	700x25C	2105
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	700x28C	2136
700C Tubular 2130 700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700x30C	2146
700x35C 2168 700x38C 2180 700x40C 2200 700x42C 2224 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700x32C	2155
700x38C 2180 700x40C 2200 700x42C 2224 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700C Tubular	2130
700x40C 2200 700x42C 2224 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700x35C	2168
700x42C 2224 700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700x38C	2180
700x44C 2235 700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700x40C	2200
700x45C 2242 700x47C 2268 29x2,1 2288 29x2,2 2298	700x42C	2224
700x47C 2268 29x2,1 2288 29x2,2 2298	700x44C	2235
700x47C 2268 29x2,1 2288 29x2,2 2298	700x45C	2242
29x2,2 2298		2268
29x2,2 2298	29x2,1	2288
	-	2298
		2326

Data Field

Category	Data Field	Description of Data Fields
	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.
Altitude	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	The distance traveled for current activity.
	ODO	The accumulated total distance until you reset it.
Distance	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	The current rate of change in distance.
Speed	Avg Speed	The average speed for current activity.
	Max Speed	The maximum speed for current activity.
	Cadence	The current rate at which rider is pedalling the pedals.
Cadence	Avg CAD	The average cadence for current activity.
	Max CAD	The maximum cadence for current activity.
	Time	Current GPS Time.
	Ride Time	The time spent on riding for current activity.
Time	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	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.
Heart Rate	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 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
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 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 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 of Current Power
FTP Zone	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
	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.
Pedal	MaxTE-LR	The maximum left/right percentage of how efficiently a rider is pedaling.
Analysis	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.
	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.
Workout	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	
	SPD Ring		
	SPD Bar	The current speed rate displays in dynamic coloured graphical mode.	
	CAD Ring	The current cadence rate displays in dynamic coloured graphical	
	CAD Bar	mode.	
	HR Ring	The command heart rate displays in domain a larged area highly and	
Graph	HR Bar	The current heart rate displays in dynamic coloured graphical mode.	
мари	PW Ring		
	PW Bar	The current power rate displays in dynamic coloured graphical mode.	
	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 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.	
Ebike	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.	
	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.	
Electronic Gear-Shifting	Rear Gear	The gear position of the rear derailleur displayed by the graphic.	
Systems	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 S510

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.



RF Exposure Information

This device meets the EU requirements and the International Commission on Nonlonizing 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 S510.pdf

