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

Product Registration

Help us better support you by completing your device registration using Bryton Bridge. Go to http://support.brytonsport.com for more information.

Bryton Software

Go to http://brytonsport.com to download free software to upload your personal profile, tracks and analyze your data on the web.

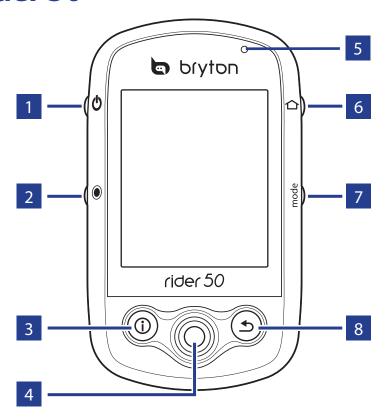
Australian Consumer Law

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 for 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.

Getting Started

This section will guide you on the basic preparations before you start using your Rider 50.

Your Rider 50



1 Power ひ

- Press and hold to turn the Rider 50 on
- Short press to turn on or off the backlight.

2 Start / Stop Output Description:

- · In training mode or direction mode, press and hold to stop recording log.
- In free cycling, press to start recording. Press and hold
 to stop recording.

3 Info ①

• Press to display information about the Message List, Training Overview (Displayed after started a training),

Step Overview (Displayed after enabled Step Counter), or Lap info (Displayed after started a Lap training).

4 5-Way Navigator / Enter

- Move up/down to scroll through list, move right to the next page; move left to back the previous page. Press the center to confirm a selection.
- In map page, move cursor by 5-way navigator to the location you want to save, press ① to save the POI. Move up/down/left/right to pen the map. Press the center to call out the zoom in/out bar. Press it again to cancel.



5 LED Indicator

· Red is charging; Green is fully charged.

6 Menu 仚

- Press to open the menu.
- Press and hold to calibrate the barometer.

7 Mode mode

 Press to switch modes: Grid, Map, and My Buddy (Displayed after started a training). For quick change of the display info in a grid, you can highlight a grid by moving the 5-way navigator and enter it to select a new display item.

8 Back **△**

- In Map page, press to re-center grid display cursor position.
- In other pages, press to return to the previous page or cancel an operation.

Reset the Rider 50

To reset the Rider 50, press and hold **4** and **6** for five seconds.

Accessories

The Rider 50 comes with the following accessories:

- Power adapter
- Plug(s)
- USB cable
- Bike mount
- microSD card

Optional items:

- Speed/Cadence sensor
- · Heart rate belt

Status Icons

lcon	Description	
	Bike in used	
100	Bike 1	
376	Bike 2	
	GPS Signal Status	
4	No signal (not fixed)	
R	Weak signal	
%	Strong signal	

lcon	Description	
	Power Status	
	Full battery	
	Half battery	
	Low battery	
•	Heart Rate Sensor Active	
(a)	Cadence Sensor Active	
Will.	Power Meter Active	

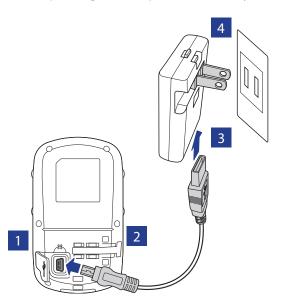
lcon	Description
9	New Message notification
	Training Plan in Progress
	Log Record in Progress

NOTE: Training Plan, Log Record, and New Message notification are displayed only when they are in progress.

Step 1: Charge the Battery

Warning:

This product contains a lithium-ion battery. See the Warranty and Safety Information guide in the package for important battery safety information.



- 1. Open the weather cap.
- 2. Connect the mini-USB end of the USB cable to the mini-USB port of the Rider
- 3. Connect the other end to the power adapter.
- 4. Plug the power adapter to a wall outlet.

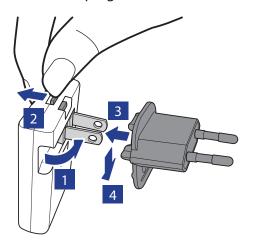
NOTE:

- Charge the Rider 50 for at least 4 hours before you start using it.
- You can also charge the Rider 50 using your computer but recommended to turn off the Rider 50 to ensure the battery will be fully charged.
- Always keep the USB lid tightened when riding. If the screen appears foggy, please place Rider 50 in a dry place for 2 days and wait until the moisture disappears.

The Rider 50 may come with different plug head(s) suitable in the country where you purchased the device.



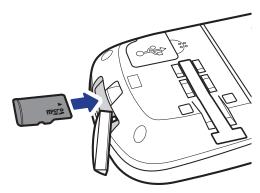
To use the plug:



- 1. Pull up the default plug.
- 2. Press and hold the tab.
- 3. Insert the plug head.
- 4. Release the tab to lock the plug head and push the plug down.

Step 2: Install Memory Card

Insert a micro SD card with the golden contact area facing downwards as shown on below illustration.



NOTE: After you insert or remove the microSD card, the Rider 50 will automatically restart.

Step 3: Turn on the Rider 50

Press and hold the Power **b** button to turn the Rider 50 on.

Step 4: Initial Setup

When turning the Rider 50 on for the first time, the setup wizard appears on screen. Follow the instructions to complete setup.

- 1. Select the display language.
- 2. Select the unit of measurement.
- 3. Enter your "user profile".

(It is recommended to input the data. The data accuracy will highly affect your training analysis.)

- 4. Read and accept the Safety Agreement.
- 5. Select one of the available regional maps from the list.

IMPORTANT:

You can only activate one free regional map and this process is irreversible.

Follow the on-screen instructions to activate map on the micro SD card.

NOTE:

- After unplugging the Rider 50 from the USB, the Rider 50 will reset itself.
- Do not unplug the USB cable during the files transferring process. Otherwise, the files may be damaged or corrupted.
- We highly recommend you to register the Rider 50 via Bryton Bridge. (Internet connection required)

After you have installed Bryton Bridge, it will automatically launch when the device is connected to the computer. If the software does not automatically launch, double-click Bryton Bridge shortcut icon 🔄 on the computer's desktop.

Step 5: Acquire Satellite Signals

Once the Rider 50 is turned on, it will automatically search for satellite signals. It may take 30 to 60 seconds to acquire signals. The GPS signal icon turns blue when GPS is fixed.

Step 6: Ride your Bike with Rider 50!

- 1. Just ride with free cycling mode or set up a training program through Menu options.
- Press the Mode mode button to switch modes.
- 3. Select from the available different modes: Grid, Map, and My Buddy.



How to connect your device with brytonsport.com

1. Download Bryton Bridge 2

- a. Go to http://www.brytonsport.com/help/start and download Bryton Bridge 2.
- b. Click **Launch Bryton Bridge** and follow the on-screen instructions to install Bryton

2. Register an Account

Go to http://www.brytonsport.com and register an account. Please provide accurate information in Personal Setting.

3. Connect to PC

Turn on your Rider 50 and connect it to your computer by using USB cable.

4. Share Your Experience With Other Bikers

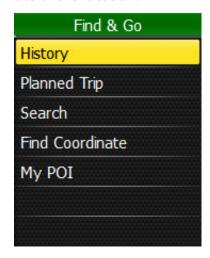
To share your experiences with other bikers around the world, please visit http://www.brytonsport.com.

NOTE:

- Go to corp.brytonsport.com > Support > Tutorial for more instructions.
- The Map DVD can be used as backup.

Find & Go

With the Find & Go feature, you can navigate rides from History, Planned Trip, and My POI list. You also can find your points of interest or a place by entering the name, address, or coordinate of the location.



- 1. Press the Menu button to open the menu.
- 2. Use the 5-way navigator to select **Find & Go**.
 - Move the 5-way navigator up/down to select the item.
 - Press the center to confirm.

Navigate Rides from History

You can navigate any trip saved in your Rider 50 history.



- 1. In the Find & Go menu, use the 5-way navigator to select **History**.
- 2. Select a ride from the list.
- 3. Highlight and press the center of the 5-way navigator to start navigation.
- 4. A pink dotted line (track) appears on the map, showing you the direction to your destination.

Navigate Rides from Planned Trip

You can navigate a ride uploaded to your Rider 50 from the Bryton Bridge application.

- 1. Prepare and download your trip via brytonsport.com and Bryton Bridge application.
- 2. Connect your Rider 50 with the computer using the USB cable.
- 3. Follow the on-screen instructions to transfer data to your Rider 50.
- 4. Press the Menu 🗘 button.
- 5. Use the 5-way navigator to select **Find & Go > Planned Trip**.
- 6. Select a ride from the list and press the center of the 5-way navigator to confirm. It displays the details of the ride.





Select an option:

- display the route.

- delete the selected route from the Planned Trip list.

In the Overview display, select an option:

- switch the starting and ending points.

- view the route on the map.

- navigate to your selected destination.

 A preplanned trip is as a green line on the map; the pink line is as the direction to your destination.

Find Location

You can search for points of interest from the saved waypoints (location) and recent finds in your Favorites. You can also search certain place by entering its address.

Search POI



- In the Find & Go menu, use the 5-way navigator to select Search > Search POI.
- 2. Enter a name and select a category.
- 3. To start searching, use the 5-way navigator to highlight \(\bigcirc \) and press the center of the 5-way navigator to confirm.

Enter a Location Name Using the On-screen Keyboard



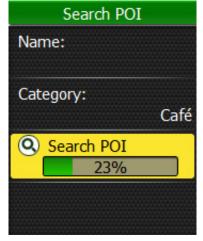
- 1. Move the 5-way navigator up/down/left/right to select the character.
- 2. Press the center of the 5-way navigator to confirm the selection.
 - To toggle between upper and lower case letters, select 1.
 - To change the input method, select
 - To move the cursor position, select or .
- 3. When finished, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.

Select a Category



- 1. Move the 5-way navigator up/down to select the desired category.
- 2. Press the center of the 5-way navigator to confirm the selection.

An example of Search POI Result



Search Details



Search Result



Search Location

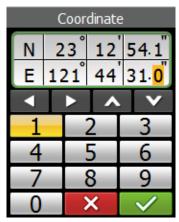


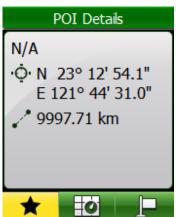
- In the Find & Go menu, use the 5-way navigator to select Search > Address.
- 2. Enter an address (country-state, city, road name, and house number).
- 3. To start navigating to the destination, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.

NOTE: To use the Search feature, you need to get the GPS fixed. It will search the place within 6 km radius of the current position.

Find Coordinate

You can search for places by entering the coordinate of the location.





- 1. In the Find & Go menu, use the 5-way navigator to select **Find Coordinate**.
- 2. Use the 5-way navigator to select the coordinate search format and press the center of the 5-way navigator to confirm.
- 3. Use the 5-way navigator to enter the new coordinate.
 - or . You can also change the coordinate by selecting . or .
- 4. When finished, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
- 5. You can save the Coordinate by selecting★ and navigate by selectingI = 1.

My POI

You can navigate any POI saved in My POI.

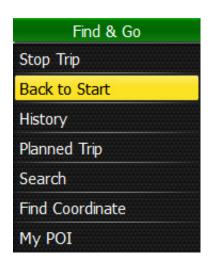


- 1. In the Find & Go menu, use the 5-way navigator to select My POI.
- 2. Select a place from the list and press the center of the 5-way navigator to confirm. It displays the POI details.
- 3. Use the 5-way navigator to highlight to start navigating the ride.

Select an option:

- show POI route on the map.
- delete the selected route from the POI list.
- navigate to your selected POI.

Back To Start



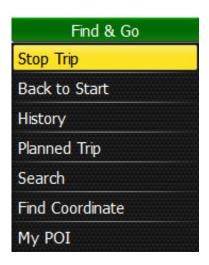
After you have reached your destination

or finished your ride, press the Menu button and use the 5-way navigator to select Find & Go > Back to Start.

The Rider 50 navigates you back to your starting point.



Stop Navigating



To stop your ride:

- 1. Press the Menu 🗅 button.
- Use the 5-way navigator to select Find & Go > Stop Trip.

Data Recording

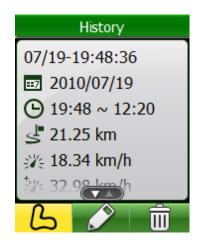
The Rider 50 can record points every second of your ride.

- In free cycling, press to start recording and press it again to stop recording.

History

The Rider 50 automatically saves the history as the timer starts. History includes date, time, distance, average speed, and altitude.

After you have finished a ride, you can view the history data on the Rider 50.



To view your history:

- 1. Press the Menu button to open the menu.
- Use the 5-way navigator to select Find & Go > History.
- Select a route from the History list and press the center of the 5-way navigator to confirm.
 It displays the route details.

Select an option:

- display the route.

- edit the name for selected History.

- delete the selected route from the History list.

NOTE:

- The three icons are only displayed for the recorded log with GPS information. Otherwise, you will only see one icon ...
- You can also upload your history to brytonsport.com to keep track of all your ride data. See "Data Management" on page 42.
- You can also view history by pressing the Menu to button and use the 5-way navigator to select **View History**.

Use the Map

Press the Mode mode button to switch to Map mode. When you begin your ride, a dotted line (track) appears on the map, showing you the route to your destination.



Use the 5-way navigator to zoom on the map:

- Press the center to call out the zoom in/ out bar.
- Move up/down/left/right to pen the map.
- Press the center again to hide the zoom bar.



During navigation, if the route is off course, press the Info ① button to recalculate the route.



When you are using the device for navigation, press the Info ① button to see the next turn (see image on the left), and press **MORE** to see the succeeding turns.





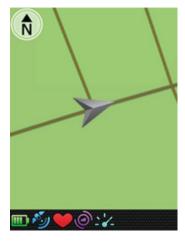
Cycling Route Map (CR Map)



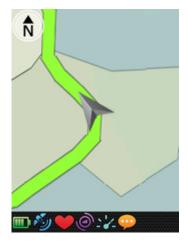
Regional Cycle Network



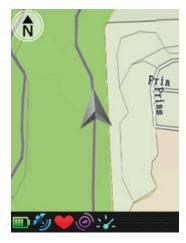
National & International Cycle Network



Trails



Mount Bike Trails



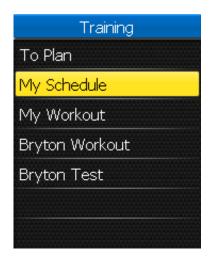
Local Cycle Roads



Local Cycle Network

Training

Bicycling is one of the best type of exercise for your body. It helps you to burn your calories, lose weight and increase your overall fitness. With the Rider 50 Training feature, you can set fitness training plans or simple/advance workouts and train with your virtual partner, My Buddy. Use the Rider 50 to track your training or workout progress.



- 1. Press the Menu button to open the menu
- 2. Use the 5-way navigator to select **Training**.
 - Move the 5-way navigator up/down to select the item.
 - · Press the center to confirm.

Simple Workouts

You can set simple workouts by entering your goals, and My Buddy will assist you to achieve them.

The Rider 50 offers you with three types of simple workouts: By Time, By Distance, and By Calories.

By Time

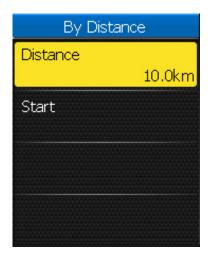


- In the Training menu, use the 5-way navigator to select **To plan > Simple > By Time**.
- 2. Set your time.
- 3. When finished, use the 5-way navigator to highlight **Start** and press the center of the 5-way navigator to confirm.
- 4. A "Do you want to save it to my workout?" message appears on the screen. To save the data, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
- 5. Enter the workout name using the onscreen keyboard.
- 6. Go for a ride. Press
 to start training and recording log.

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By Distance



- In the Training menu, use the 5-way navigator to select **To plan > Simple > By Distance**.
- 2. Set your distance.
- 3. When finished, use the 5-way navigator to highlight **Start** and press the center of the 5-way navigator to confirm.
- 4. A "Do you want to save it to my workout?" message appears on the screen. To save the data, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
- 5. Enter the workout name using the onscreen keyboard.
- 6. Go for a ride. Press
 to start training and recording log.

By Calories



- In the Training menu, use the 5-way navigator to select **To plan > Simple > By** Calories.
- 2. Set your calories that you want to burn.
- 3. When finished, use the 5-way navigator to highlight **Start** and press the center of the 5-way navigator to confirm.
- 4. A "Do you want to save it to my workout?" message appears on the screen. To save the data, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
- 5. Enter the workout name using the onscreen keyboard.
- 6. Go for a ride. Press
 to start training and recording log.

Using the On-screen Keyboard

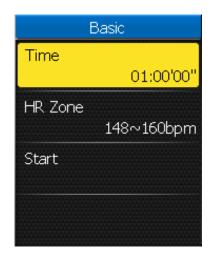




- 1. Move the 5-way navigator up / down / left / right to select the character.
 - Highlight C to reset the data.
 - Highlight to erase the data.
 - Highlight or be to move the cursor location.
 - Highlight to toggle between upper and lower case letters.
 - Highlight with to change the input method.
- 2. Press the center of the 5-way navigator to confirm the selection.
- 3. When finished, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
 - Highlight X to cancel the setting.

Basic Workouts

You can create a workouts based on the time and heart rate zone.



- 1. In the Training menu, use the 5-way navigator to to select **To plan > Basic**.
- 2. Set your time and the desired zone type.
- 3. When finished, use the 5-way navigator to highlight **Start** and press the center of the 5-way navigator to confirm.
- 4. A "Do you want to save it to my workout?" message appears on the screen. To save the data, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
- 5. Enter the workout name using the onscreen keyboard.
- 6. Go for a ride. Press
 to start training and recording log.

 Training



Interval Workouts

You can create a customize interval workouts with your Rider 50.



- 1. In the Training menu, use the 5-way navigator to select **To plan > Interval**.
- 2. Set the interval workout settings.
- 3. When finished, use the 5-way navigator to highlight **Start** and press the center of the 5-way navigator to confirm.
- 4. A "Do you want to save it to my workout?" message appears on the screen. To save the data, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.
- 5. Enter the workout name using the onscreen keyboard.
- 6. Go for a ride. Press
 to start training and recording log.

Lap Workouts

With the Lap feature, you can use your Rider 50 to automatically mark the lap at a specific location or after you have traveled as specific distance. You can also manually mark the lap at your preferences.



- 1. In the Training menu, use the 5-way navigator to select **To plan > Lap**.
- 2. Select the desired lap type.
- 3. Set the selected lap settings.
- 4. When finished, use the 5-way navigator to highlight **Start** and press the center of the 5-way navigator to confirm.
- 5. Go for a ride. Press
 to start training and recording log.

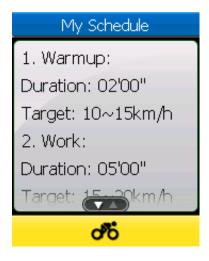
My Schedule Workouts

You start a workout based on the preset interval workouts data.

1. In the Training menu, use the 5-way navigator to select My Schedule.



3. Press • to start the workout.



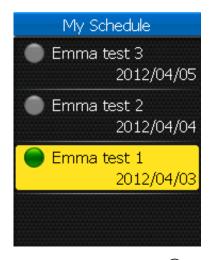
5. To pause /resume the recording log, press

.



2. Choose the workout and press

to confirm.



4. To start recording log, press .



6. To stop the current workout, press and hold .





My Buddy

My Buddy is a design that helps you meet your training or simple workout goals.



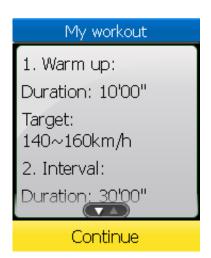
- 1. Choose a training plan from **Planned Trip** or **History**.
- 2. Go for a ride.

The Rider 50 displays My Buddy data bars and it reminds you during your training.

NOTE: You can customize the data fields on My Buddy mode. See "My Buddy Grid" on page 28.

My Workout

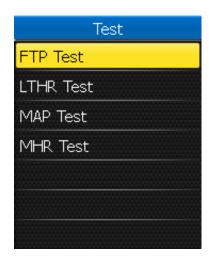
With this feature, you can start your workout using the training plan that you have saved earlier.



- 1. In the Training menu, use the 5-way navigator to select **My workout**.
- 2. Select your desired training plan and press the center of the 5-way navigator to confirm.
- 3. The selected workout details appear on the screen. Press the center of the 5-way navigator to start the workout.
- 4. Go for a ride. Press
 to start training and recording log.

Test Workouts

Test workouts will be automatically updated on to your Rider 50 after you synchronize with Bryton Bridge application. Through the test workout, you can measure your FTP (Functional Threshold Power), LTHR (Lactate Threshold Heart Rate), MAP (Maximum Aerobic Power), or MHR (Max Heart Rate) from your Rider 50.



- 1. In the Training menu, use the 5-way navigator to select **Test**.
- 2. Select your desired test workout and press the center of the 5-way navigator to confirm.
 - FTP Test: a test workout for measuring your functional threshold power.
 - LTHR Test: a test workout for measuring your lactate threshold heart rate.
 - · MAP Test: a test workout for measuring your maximum aerobic
 - MHR Test: a test workout for measuring your maximum heart rate.
- 3. The selected workout details appear on the screen. Press the center of the 5-way navigator to start the workout.
- 4. Go for a ride. Press
 to start training and recording log.

NOTE: Before starting with the test workout, you must have a Rider 50, a heart rate belt, and a power meter. The heart rate belt is used for measuring MHR and LTHR, and the power meter is used for measuring FTP and MAP.



Stop Training

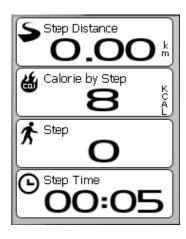
You can stop the current training after you have reached your goal, or you decide to end the current training.



- 1. Press and hold ①.
- 2. A "Current training and recording will be stopped, would you like to execute?" message appears on the screen. To stop the current training, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.

Step Counter

With the Step Counter feature, you can record the number of steps that you take. It can also determine the distance you have covered and calculate how many calories you have burned up. Use your step counter to track your progress.



- 1. Press the Menu \bigcirc button to open the
- 2. Use the 5-way navigator to select **Step** Counter.
 - Move the 5-way navigator up/down to select the item.
 - Press the center to confirm.
- 3. Start walking.

The Rider 50 automatically counts each step you take.

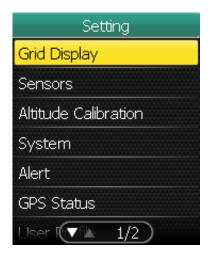
NOTE:

- Daily step counts can be reviewed by pressing ① key or upload your data through Bryton Bridge to see the detail analysis on brytonsport.com.
- The device will keep a 7-day record of step counts. Please use Bryton Bridge to upload your steps before they are overwritten by new records.



Settings

With the Settings feature, you can customize page settings, sensor settings, system settings, bike and user profile, alerts setup, and map setting.



- 1. Press the Menu button to open the menu.
- 2. Use the 5-way navigator to select **Settings**.
 - Move the 5-way navigator up/down to select the item.
 - Press the center to confirm.

Grid Display

You can set the grid setting for the information, altitude, map, and My Buddy displays. You can also set the display brightness setting.

Info Page / Altitude Page / Map Page / My Buddy Page



- In the Settings menu, use the 5-way navigator to select Grid Display > Info Grid, Info Grid2, Info Grid3, Altitude Page, Map Grid, or My Buddy Grid.
- 2. Move the 5-way navigator left/right to select the number of grid display and press the center to confirm.
- 3. Use the 5-way navigator to select the item field that you want to customize.



- 4. Move the 5-way navigator up/down to select the item setting, and press the center to confirm.
 - Move the 5-way navigator right/left to the next / previous page of the list.
- 5. Move the 5-way navigator up/down to select the desired setting.
- 6. When finished, press the center of the 5-way navigator to confirm.

NOTE: When you see "--" in a grid, it means the sensor is inactive. To activate the sensor, refer to "Sensors" on page 30-33.

Day/Night mode



- 1. In the Settings menu, use the 5-way navigator to select **Grid Display > Day/** Night mode.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Auto Day/Night Mode: automatic adjust the backlight brightness.
 - Day Mode: color scheme for day vision.
 - Night Mode: color scheme for night vision.



Sensors

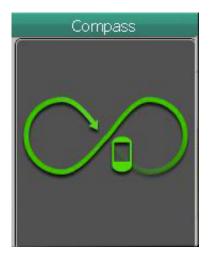
You can customize the sensor settings such as enable/disable the function, rescan or do calibration for the Rider 50.

Compass



- 1. In the Settings menu, use the 5-way navigator to select **Sensors** > **Compass**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - On: enable the sensor.
 - Off: disable the sensor.
 - Calibration: calibrate the Rider 50 compass.

Compass Calibration



- 1. Hold Rider 50 firmly in your hand.
- 2. Wave your arm and write the infinite symbol shown on the screen for several seconds.
- 3. When calibration is completed, it will emit beep sound.

CAUTION!

When using the electronic compass, do not place the Rider 50 near objects that generate the magnetic fields, such as electric appliances, magnets, or buildings (high-voltage tower). These objects may cause the Rider 50 point to the wrong direction.

Cadence



- 1. In the Settings menu, use the 5-way navigator to select **Sensors** > **Cadence**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - On: enable the sensor.
 - Off: disable the sensor.
 - Rescan: rescan to detect the cadence sensor.

NOTE: While pairing your cadense sensors, please make sure there is no other cadence sensor within 5 m.

Heart Rate



- 1. In the Settings menu, use the 5-way navigator to select **Sensors** > **Heart Rate**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - On: enable the sensor.
 - Off: disable the sensor.
 - Rescan: rescan to detect the heart rate sensor.

NOTE:

- When the heart rate monitor is paired, the $\stackrel{\smile}{\smile}$ heart rate icon appears on the main screen.
- While pairing your heart rate sensors, please make sure there is no heart rate sensor within 5 m.



Speed



- 1. In the Settings menu, use the 5-way navigator to select **Sensors** > **Speed**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - On: enable the sensor.
 - Off: disable the sensor.
 - Rescan: rescan to detect the speed sensor.

Speed/Cadence



- In the Settings menu, use the 5-way navigator to select Sensors > Speed/ Cadence.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - On: enable the sensor.
 - Off: disable the sensor.
 - Rescan: rescan to detect either speed or cadence sensor.

NOTE:

- When the cadence sensor is paired, the cadence sensor icon appears on the main screen.
- While pairing your cadence/speed sensors, please make sure there is no other cadence/speed sensor nearby.

Power



- In the Settings menu, use the 5-way navigator to select Sensors > Power.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - On: enable the power meter.
 - Off: disable the power meter.
 - Rescan: rescan to detect the power meter.
 - Calibration: calibrate the power meter.

Auto Detect

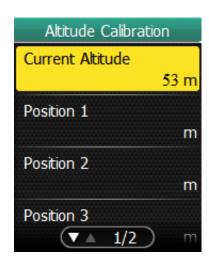


- 1. In the Settings menu, use the 5-way navigator to select **Sensors > Auto** Detect.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Yes: automatically scan the sensors.
 - No: manually scan the sensors.

Change Altitude Settings

You can set the altitude setting for the current location and the other 5 locations.

Current Altitude



- 1. In the Settings menu, use the 5-way navigator to select Altitude Calibration > Current Altitude.
- 2. Set the current altitude.
- 3. When finished, use the 5-way navigator to highlight **and** press the center of the 5-way navigator to confirm.



Other Position Altitude

You can set your 5 locations which are the most frequently visited. After manually entering each location altitude, select a desired location, for example, **Position 1** and select **Calibration** to adjust the correct altitude.



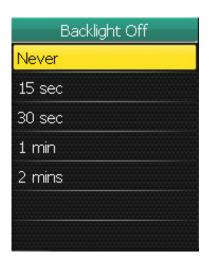
- 1. In the Settings menu, use the 5-way navigator to select **Altitude Calibration** > Position 1, Position 2, Position 3, Position 4, or Position 5.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - · Altitude: set the location altitude.
 - Edit Name: specify the location name.
 - Calibration: calibrate the Rider 50 with the specified location altitude.

NOTE: To ensure the data is accurate, it is highly recommended that you adjust the barometer every time before using your Rider 50.

Change System Settings

You can customize the Rider 50 system settings such as backlight off, brightness, on-screen display language, and time/unit data format.

Backlight Off



- 1. In the Settings menu, use the 5-way navigator to select **System > Backlight**
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.

Brightness



- 1. In the Settings menu, use the 5-way navigator to select **System > Brightness**.
- 2. Move the 5-way navigator up/down to adjust the brightness level and press the center to confirm.

Language



- 1. In the Settings menu, use the 5-way navigator to select **System > Language**.
- 2. Move the 5-way navigator up/down to select the desired language and press the center to confirm.

Date Format



- 1. In the Settings menu, use the 5-way navigator to select **System > Time/Unit >** Date format.
- 2. Move the 5-way navigator up/down to select the desired date format and press the center to confirm.



Time Format



- In the Settings menu, use the 5-way navigator to select System > Time/Unit > Time format.
- 2. Move the 5-way navigator up/down to select the desired time format and press the center to confirm.

Unit Format

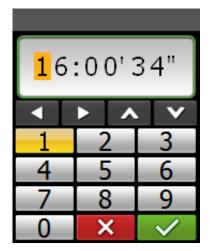


- In the Settings menu, use the 5-way navigator to select **System > Time/Unit Unit**.
- 2. Move the 5-way navigator up/down to select the desired unit format and press the center to confirm.

Adjust Date and Time

You can adjust the current date and time.

2011 / 03 / 03				
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4	5	6		
7	8	9		
0	×	/		



- 1. In the Settings menu, use the 5-way navigator to select **System > Time/Unit > Date** or Time.
- 2. Enter the new date or adjust the current time setting with the on-screen keyboard.
- 3. When finished, use the 5-way navigator to highlight \checkmark and press the center of the 5-way navigator to confirm.

Alert

With the Alert feature, the Rider 50 beeps and displays a message to notify you if:

- your heart rate exceeds or drops below a specific number of beats per minute (bpm).
- you exceed or drop below a custom speed setting during your ride.
- your cadence speed exceeds or drops below a specific number of revolutions of the crank arm per minute (rpm).
- you reach a certain amount of distance for the long workouts.
- you reach a certain amount of time for the long workouts.

NOTE: To use the heart rate, speed or cadence alerts, you must have a Rider 50, a heart rate belt, and a cadence sensor.



Cadence



- In the Settings menu, use the 5-way navigator to select Alert > By Cadence.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Alert: set the alert status.
 - Max Cadence: specify the fastest cadence amount in revolutions of the crank arm per minute (rpm).
 - Min Cadence: specify the slowest cadence amount in revolutions of the crank arm per minute (rpm).

Distance



- 1. In the Settings menu, use the 5-way navigator to select **Alert > By Distance**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Alert: set the alert status.
 - Distance: specify the maximum distance.

Speed



- In the Settings menu, use the 5-way navigator to select Alert > By Speed.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Alert: set the alert status.
 - Max Speed: specify the maximum speed.
 - Min Speed: specify the minimum speed.

Time



- 1. In the Settings menu, use the 5-way navigator to select **Alert > By Time**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Alert: set the alert status.
 - Time: specify the maximum riding

Heart Rate

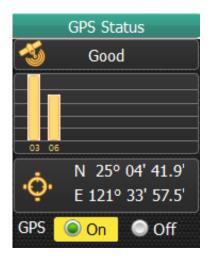


- 1. In the Settings menu, use the 5-way navigator to select **Alert > Heart Rate**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Alert: set the alert status.
 - Max HR: specify the maximum heart
 - Min HR: specify the minimum heart rate.



View GPS Status

You can view the information about the GPS signal the Rider 50 is currently receiving. The GPS signal icon turns blue when GPS is fixed.



- 1. In the Settings menu, use the 5-way navigator to select **GPS Status**.
- 2. Move the 5-way navigator left/right to select the desired setting and press the center to confirm.
 - On: enable the GPS satellites. The Rider 50 will automatically search for satellite signals.
 - · Off: disable the GPS satellites.

Personalize User Profile

You can change your personal information.



- 1. In the Settings menu, use the 5-way navigator to select **User Profile**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Name: enter your name using the onscreen keyboard.
 - Gender: select your gender.
 - Birthday: enter your birthday.
 - · Height: set your height.
 - Weight: set your weight.
 - MHR: set your maximum heart rate.
 - LTHR: set your lactate threshold heart rate.
 - MAP: set your maximum aerobic power.
 - FTP: set your functional threshold power.

Personalize Bike Profile

You can customize your bicycle(s) profile.



- 1. In the Settings menu, use the 5-way navigator to select Bike profile > Bike 1 or Bike 2.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Status: set the bike status.
 - Name: enter the bike name using the on-screen keyboard.
 - Bike Type: select the bike type.
 - Weight: set the bike weight.
 - Wheel: set the bike wheel size.
 - Total Mileage: set the total mileage of the bike ride.

NOTE: For details on wheel size, see "Wheel Size and Circumference" on page 48.

Change Map Setting

You can change the orientation of the map.



- 1. In the Settings menu, use the 5-way navigator to select **Map > Always North**.
- 2. Move the 5-way navigator up/down to select the desired setting and press the center to confirm.
 - Yes: display the map where the heading direction is in the north.
 - No: display the map as normal bird view.



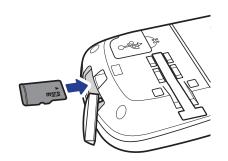
Data Management

You can use the Rider 50 as a USB mass storage device, and you can purchase a separate micro SD card for additional external memory.

Load Files

Insert a microSD Card (optional)

Insert a microSD card with the golden contact area facing downwards as shown on the illustration.



Connect the USB Cable

- 1. Open the weather cap of the mini-USB port.
- 2. Connect the mini-USB end of the USB cable to the mini-USB port of the Rider 50.
- 3. Connect the other end to your computer. The Rider 50 resets and enters the USB mode. The computer automatically detects the Rider 50 and installs the necessary driver and application.

Transfer Files to Your Computer

- 1. Launch the Bryton Bridge application.
- 2. Follow the on-screen instructions to transfer data to your computer.

NOTE: Upload your historical data to brytonsport.com and keep track of all your data via Bryton Bridge application.

Transfer Files to Another Rider 50

With the Knock-Knock feature, you can transfer files to another Rider 50 using wireless technology.



- 1. Turn on both Rider 50 units, and bring them within range (4 m) of each other.
- 2. Press the Menu button to open the menu.
- 3. Use the 5-way navigator to select **Knock Knock**.
 - Move the 5-way navigator up/down to select the item.
 - Press the center to confirm.

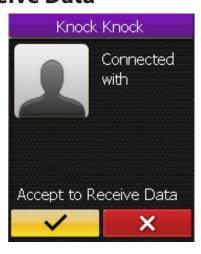
Transfer Data



- 1. In the Knock Knock menu, use the 5-way navigator to select Transfer Data.
- 2. Move the 5-way navigator up/down to select the data items that you want to share and press the center to confirm.
- 3. When finished, use the 5-way navigator to select Knock Knock.
- 4. A "Ready to Knock" window appears on the screen. Press the center of the 5-way navigator to confirm.
- 5. To start transferring data, use the 5-way navigator to highlight \checkmark and press the center of the 5-way navigator to confirm.

NOTE: Bring both Rider 50 units within 4 m (or closer) range of each other.

Receive Data



- 1. In the Knock Knock menu, use the 5-way navigator to select Receive Data.
- 2. A "Ready to Knock" window appears on the screen. Press the center of the 5-way navigator to confirm.
- 3. To accept receiving data from another Rider 50 unit, use the 5-way navigator to highlight and press the center of the 5-way navigator to confirm.

NOTE:

- The duration of file transfer depends on the file size. It is recommended to transfer smaller file size on each data sharing.
- When transferring or accepting the data, please keep the device with 4 m apart.



Stopwatch

With the Stopwatch feature, you can measure the amount of time elapsed from the time the Rider 50 is activated and deactivated. You can switch between two modes: Countdown and Timer. Countdown is used to notify you when a set amount of time has passed. Timer is used to measure how long something takes.

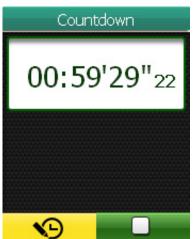


- 1. Press the Menu button to open the
- 2. Use the 5-way navigator to select **Stopwatch**.
 - Move the 5-way navigator up/down to select the item.
 - Press the center to confirm.

Countdown



- 1. In the Stopwatch menu, use the 5-way navigator to select **Countdown**.
- 2. Set the countdown time, and highlight and press the center of the 5-way navigator to confirm.
- 3. To start the countdown, move the 5-way navigator left/right to highlight and press the center of the 5-way navigator to confirm.



- 4. To pause the countdown, move the
 5-way navigator left/right to highlight
 and press the center of the 5-way navigator to confirm.
- 5. To reset the countdown, move the5-way navigator left/right to highlightand press the center of the 5-way navigator to confirm.

Timer



- 1. In the Stopwatch menu, use the 5-way navigator to select Timer.
- 2. To start the timer running, press the center of the 5-way navigator to confirm.



- 3. To record a lap while the watch is running, move the 5-way navigator left/right to highlight and press the center of the 5-way navigator to confirm. It displays the first lap time.
 - Repeat this step to create a new lap.
- 4. To stop the watch, move the 5-way navigator left/right to highlight ____ and press the center of the 5-way navigator to confirm.



Appendix

Specifications

Rider 50

ltem	Description
Display	2.2" Color LCD
Resolution	176 x 220
Physical size	54.7 x 96 x 21.6 mm (2.15" x 3.77" x 0.85")
Weight	106 g (3.73 oz)
Operating temperature	-15°C ~ 50°C
Battery Charge temperature	0°C ~ 40°C
Battery	1200mAh rechargeable Li Battery
Battery life	With backlight off, it can work up to 15 hours
GPS	Integrated high-sensitivity ST GPS receiver with embedded patch antenna
RF transceiver	2.4GHz ANT+ transceiver with embedded antenna
Storage	Embedded 2GB iNAND, support microSD up to 32GB
Barometer	300 ~ 1100 hPA (+9000 ~ -500 m above the sea level)

Speed/Cadence Sensor

ltem	Description
Physical size	37.5 x 35 x 12 mm
Weight	25 g
Water Resistance	1 ATM
Transmission range	3 m
Battery life	1 hour per day for 22 months (660 hours)
Operating temperature	5°C ~ 40°C
Radio frequency/protocol	2.4GHz / Dynastream ANT+ Sport wireless communications protocol

Accuracy may be degraded by poor sensor contact, electrical interference, and receiver distance from transmitter.

Heart Rate Monitor

Item	Description
Physical size	34.7 x 3.4 x 1.1 cm
Weight	44 g
Water Resistance	10 m
Transmission range	3 m
Battery life	1 hour per day for 16 months (480 hours)
Operating temperature	5°C ~ 40°C
Radio frequency/protocol	2.4GHz / Dynastream ANT+ Sport wireless communications protocol

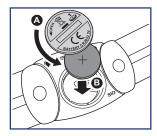
Accuracy may be degraded by poor sensor contact, electrical interference, and receiver distance from transmitter.

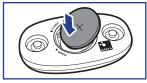
Battery Information

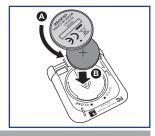
Heart Rate Monitor and Cadence Sensor Battery

The heart rate monitor/cadence sensor contains a user replaceable CR2032 battery. To replace the battery:

- 1. Locate the circular battery cover on the back of the heart rate monitor/cadence sensor.
- 2. Use a coin to twist the cover counter-clockwise so the arrow on the cover points to OPEN.
- 3. Remove the cover and battery. Wait 30 seconds.
- 4. Insert the new battery with the battery contacts the positive connector first, then put it into the battery chamber.
- 5. Use a coin to twist the cover clockwise so the arrow on the cover points to CLOSE.







NOTE:

- When installing new battery, if the battery did not contact the positive battery connector first, the positive connector will easily deform and malfunction.
- Be careful not to damage or lose the O-ring gasket on the cover.
- Contact your local waste disposal department to properly dispose of batteries.



Wheel Size and Circumference

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

Wheel Size	L (mm)
12 x 1.75	935
14 x 1.5	1020
14 x 1.75	1055
16 x 1.5	1185
16 x 1.75	1195
18 x 1.5	1340
18 x 1.75	1350
20 x 1.75	1515
20 x 1-3/8	1615
22 x 1-3/8	1770
22 x 1-1/2	1785
24 x 1	1753
24 x 3/4 Tubular	1785
24 x 1-1/8	1795
24 x 1-1/4	1905
26 x 2.10	2068
26 x 2.125	2070
26 x 2.35	2083
26 x 3.00	2170
27 x 1	2145
27 x 1-1/8	2155
27 x 1-1/4	2161
27 x 1-3/8	2169
650 x 35A	2090
650 x 38A	2125
650 x 38B	2105
700 x 18C	2070

Wheel Size	L (mm)
24 x 1.75	1890
24 x 2.00	1925
24 x 2.125	1965
26 x 7/8	1920
26 x 1(59)	1913
26 x 1(65)	1952
26 x 1.25	1953
26 x 1-1/8	1970
26 x 1-3/8	2068
26 x 1-1/2	2100
26 x 1.40	2005
26 x 1.50	2010
26 x 1.75	2023
26 x 1.95	2050
26 x 2.00	2055
700 x19C	2080
700 x 20C	2086
700 x 23C	2096
700 x 25C	2105
700 x 28C	2136
700 x 30C	2170
700 x 32C	2155
700C Tubular	2130
700 x 35C	2168
700 x 38C	2180
700 x 40C	2200

Heart Rate Zones

Zone	What it does	% of Heart Rate Reserve
1: Very Light	Great for beginners, those in extremely poor condition and those primarily interested in exercising for weight loss because the body burns a higher blend of fat calories than carbohydrate calories for its fuel.	50-60%
2: Light	Weight management & strengthening your heart, giving it the opportunity to work at its optimum level. Also known as the "aerobic fitness threshold" because from this point forward, your body begins to reap the positive effects of aerobic exercise.	60-70%
3: Moderate	Benefits not only your heart but also your respitory system. Increases your endurance and enhances your aerobic power, which is the ability to transport oxygen to, and carbon dioxide away from sport-specific muscles. Increases your MET (Metabolic Equivalent) output.	70-80%
4: Hard	High performance training benefits. Increase your body's ability to metabolize lactic acid, allowing you to train harder before crossing over into the pain of lactate accumulation and oxygen debt.	80-90%
5: Max	Only extremely fit athletes work at this zone on a limited frequency and duration. Operating in oxygen debt to train metabolic pathways of fast twitch muscle fibers, not endurance pathways or enzymes.	90-100%

Basic Care For Your Rider 50

Taking good care of your Rider 50 will reduce the risk of damage to your Rider 50.

- Do not drop your Rider 50 or subject it to severe shock.
- Do not expose your Rider 50 to extreme temperatures and excessive moisture.
- The screen surface can easily be scratched. Use the non-adhesive generic screen protectors to help protect the screen from minor scratches.
- Use diluted neutral detergent on a soft cloth to clean your Rider 50.
- Do not attempt to disassemble, repair or make any modifications to your Rider 50. Any attempt to do so will make the warranty invalid.

