

**User Manual** 

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### Starting a trip

### Starting a trip manually

Press the start button on the console, digital or training screen.

A trip must be finished to start a new trip. Training trips must always be started manually.

### Changing screens

There are two ways to change screens:

- 1. Tap the screen buttons at the bottom of each screen
- 2. Swipe the screen horizontally (on the map screen you must swipe off the map)

### Portrait or landscape display

BikeBrain can be viewed in portrait or landscape mode. To change the mode, tap the display mode button at the top right corner of the screen.

### **Background running**

BikeBrain supports multi-tasking so will continue running in the background while you are using other functions of the iPhone.

If there are too many apps running in the background, the iPhone OS will shut down background apps. If BikeBrain is shut down, a notification will appear and you must re-launch BikeBrain to continue data capturing.

If you receive a phone call when riding, you are recommended to find a safe place to stop to answer the call.

#### Pausing and resuming a trip manually

In trip mode, the start button will change to a finish button. Press "finish", then select "pause" to stop data collection during a trip. The start button will now become a resume button, tap it to resume the trip.

For improved battery life and reliable data, remember to finish or pause a trip before using other means of transportation. To resume the trip from pause, bring BikeBrain to the foreground, confirm all sensors are connected and press resume trip.

### Trip timer

When GPS is used for speed calculation in a trip, ride time and rest time are not differentiated.

### Finishing a Trip

Training trips will automatically finish once the primary training goal is met.

To finish a non-training trip or end a training trip before the primary goal is met, tap the finish button.

### **Settings**

### User profile screen

Information collected here is important for calculating maximum power, and calories burned. To ensure accuracy, please enter the correct information.

The input data will change depending on the units of measurement selected. The units of measurement are changed in the general settings screen. BikeBrain will automatically convert values if the units of measurement are changed.

BioLogic will not collect the following data, but you are recommended to password protect your iPhone in the iPhone settings to prevent unauthorized access.

- Gender tap and use the dial to select your gender. Tap "done" to confirm.
- Weight tap and use the dial to select your weight. Tap "done" to confirm.
- Height tap and use the dial to select your height. Tap "done" to confirm.

### Bike settings screen

BikeBrain supports up to two bicycle profiles so sensors and parameters have to be set up separately. To enter the Bike 2 setup, change this setting to "on". If you only use one bike, do not activate Bike 2.

#### Tag

Enter the bike set up menu and tap the "tag" field to enter a memorable name for your bike. Now this tag will be displayed when that bike set up is selected. Otherwise, the default tags, Bike 1 and Bike 2, will be used.

#### Odometer

To add current odometer readings from your cycle computer(s) to BikeBrain, enter the bike setup menu and tap the odometer field to enter your current mileage using the dials.

### **Wheel Size**

If you do not input or calibrate the wheel size, the default wheel size will be used and incorrect speed and distance readings may be taken. Your wheel size can be entered manually or automatically, as explained below.

### Manual set up

Scroll down to the wheel size heading in the bike setup menu and enter the size of your wheel using the drop down menu. Your wheel size is the diameter of the inflated wheel and should be written on the side of your tire, or can be measured.

### **Automatic calibration**

Scroll down to the wheel size header in the bike setup menu, then tap use GPS to calibrate wheel size and follow the on-screen prompts.

### **Screens**

### Console screen

### Icons and buttons

GPS icon



GPS active



Display mode button



Information button

0

Average speed icon

Ō

Maximum speed icon



Start button - tap to start a new ride trip

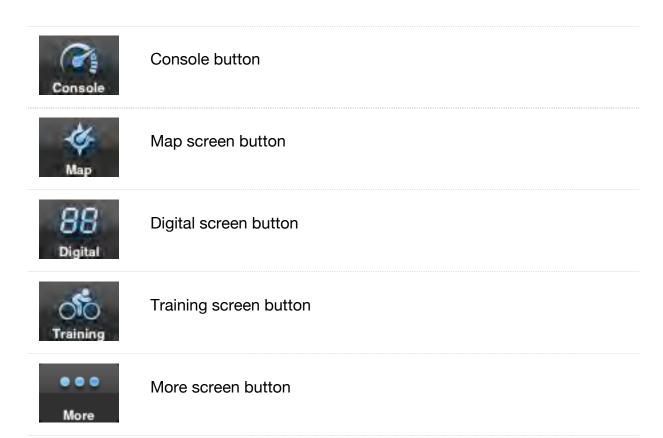
To start a training trip, go to the training screen



Finish button – a pop up will appear to pause or end trip and save information



Resume button



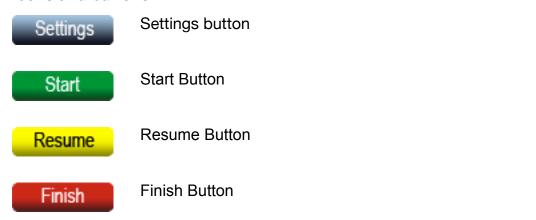
### Map screen

### **Settings**

Tap settings and you will be directed to a separate page where you can:

Define the map style (map, satellite or hybrid)

### Icons and buttons





Orientation button – tap to toggle between north and direction orientation. In north orientation, north is always at the top, but in direction orientation, the map aligns with the direction of travel data



Full screen button – tap to maximize the map size



Split screen button – tap to show both the map and trip data on the same screen



Auto-center button – tap to toggle between centering your current position on the map or allowing free movement around the map



Zoom in button



Zoom out button

### **Digital screen**

#### Customization

The screen has seven segment, which can be customized to exclusively display any one of the 20 data items collected by BikeBrain.

### Selecting display data

Double-tap a segment to enter the customization page. Unavailable items which have already been selected are blue. The data currently displayed in the selected segment is marked with a check. To change the data displayed, tap on a new data item, then Tap "done" to confirm. or cancel to undo.

Repeat the above steps until all segments are filled with the desired data items. Since the same data can only be displayed once, if you select an item that has

already been selected for another segment one segment will be unallocated. Unallocated segments only display an instruction to double tap to change.

Tap reset to return to default settings.

### Selecting segment positions

To move a segment, press and hold a segment until it dims and a cursor sign appears, then drag the segment to another location and release your finger.

#### Icons and buttons

The following icons are only displayed for current speed, cadence and heart rate data items.



Above average icon – Your current performance is above the trip average.



On par with average icon – Your current performance is within +/- 3% of the trip average.



Below average icon – Your current performance is below the trip average.

### Training screen - Setup

### **Setting a training program**

Press the training icon, then select your training type from the above 4 choices. Press "cancel" to return to the home screen.

### Simple training

Tap "simple training" to select one of four simple training programs. First, the duration of training must be selected, then a sub-goal can added.

### **Duration**

Tap "duration" to select length of the interval, first choose the measure from time, distance, or calories, then adjust the length using the dial. Tap "done" to confirm.

If one of the following sub-goals is selected, then the inputted value must be surpassed to begin the duration.

Speed goal – select by tapping, then enter a target speed using the dial and tap "done" to confirm or "cancel" to undo.

### Interval training

Tap interval training to follow your own customizable training program.

Interval training involves repeated periods of intense physical activity alternating with periods of recovery. You can design interval training profiles using this screen.

### Adding a new profile

Press the plus button to add a new profile to the list.

### **Deleting a profile**

Press the edit button to enter a new screen, then tap on the red circle next to the profile you wish to delete and confirm deletion by pressing "delete". Press "done" to return to the profile screen.

### Designing/editing a profile

Tap on the name of a profile that you want to design/edit and the profile design screen will be loaded.

### Lap training

Tap "lap training", then tap the select the total distance and lap distance fields and use the dials to enter values. Press "done" to confirm your selection and BikeBrain will automatically calculate the total number of laps for the training session. If the total distance is not an exact multiple, BikeBrain will notify you. To manually change the total distance or number of laps, tap "ok", then change your settings before tapping start. To automatically adjust your setting tap ok and tap "start".

#### **GPS-based lap training**

First set the GPS to track trip route or track trip route and speed in BikeBrain general settings. Then select GPS-based lap training and enter the number of laps by selecting the number of laps field and entering a value using the dial. Tap "done" to confirm or "cancel" to undo. If the GPS setting is incorrect or the signal is not strong enough, you will not be allowed to start the training.

When using this function, simply follow the path of your own choice, BikeBrain will automatically detect the lap is complete when you return to the start point.

### Training screen - Profile design screen

### Name the profile

Tap on the name and enter the new name using the pop-up keyboard. Tap "done" to confirm.

### Warm up

Tap on "warm up" and use the dials to select the warm up duration. Tap "done" to confirm.

### **Training stages**

A stage alternates between high and low intensity training intervals. To design the stage, tap the stage field and the page screen will be loaded with the following options:

### Repeats

Tap repeats and use the dial to select the number of times the interval training will repeat for this stage. Tap "done" to confirm.

### High intensity interval

First, the duration of the high intensity interval must be selected, then a sub-goal of the interval can added.

#### **Duration**

Tap duration to select length of the interval, first choose the measure from time, distance, or calories, then adjust the length using the dial. Tap "done" to confirm.

If one of the following sub-goals is selected, then the inputted value must be surpassed to begin the duration.

• Speed goal – select by tapping, then enter a target speed using the dial and tap "done" to confirm or "cancel" to undo.

### Low intensity interval

The duration of the low intensity interval can also be selected from time, distance, or calories and length adjusted using the dial.

Once all settings have been input, tap "done" to confirm and add the training stage.

#### Add a stage

Instead of repeating the same training program, a variable training program can be achieved, such as pyramid training, by adding a series of different stages.

To add a stage, tap the blue plus sign next to the "add another stage" field. Your training profile can consist of as many stages as you like.

To delete a stage, press the edit button to enter a new screen, then tap the red circle next to the stage you wish to delete and confirm deletion by pressing "delete".

#### Cool down

Tap on "cool down" and use the dials to select the warm up duration. Tap "done" to confirm.

Press the back button to save your settings.

Once the interval training screen is loaded, previously defined interval training profiles will be displayed. If you have defined a training profile, then select it; otherwise, follow the steps above to set up a training profile in the training profiles screen. Select a profile by tapping it, then press "start" to begin the training session.

Saved training profiles can be changed at any time, but the changes will overright the original settings, which cannot be retrieved.

### **Training screen - During use**

### Graphs

Tap the settings button to choose the type of graph to display. Only one graph can be displayed at a time.

### **Comparative arrows**

Current heart rate, speed and cadence will have a comparative arrow for quick reference to the average or target value (see Icons and Buttons below).

#### Count down timer

The current training status is shown in the lower right hand side of the screen. When a time period is set as the duration goal, a 15 second advance notice and a 5 second countdown timer will be shown when approaching the end of each lap, stage or interval.

### **Best lap time**

When using lap training and GPS-based lap training, a message will pop up when you achieve your best lap time. The best lap time will also be shown in the lower right portion of the screen.

### Icons and buttons

The following icons are only displayed for the current speed



Settings icon – tap to select the type of trip data to show on the graph.



Zoom in icon – tap to toggle the graph to show the trip data for the last 5 minutes.



Zoom out icon – tap to toggle the graph to show the trip data for the last 20 minutes.



Above average icon – the current performance is above the trip average.



On par with average icon – the current performance is within +/- 3% of the trip average.



Below average icon – the current performance is below the trip average.



Above goal icon – the current performance is above the set goal.



On par with goal icon – the current performance is within +/- 3% of the set goal.



Below goal icon – the current performance is below the set goal.

### **Trip history screen**

BikeBrain stores ride data in three ways, which are accessed by tapping the more button in the bottom right corner.

- 1. Individual trip data is accessed by selecting trip history
- 2. Overall cumulative data is accessed by selecting bike totals
- 3. Personal bests are accessed by selecting personal best

#### Overview

The trip history screen is accessed by tapping the more icon on the home screen, or automatically after a trip is finished. Trips may be arranged in either a list or calendar. To toggle between display modes, tap list or month in the top right corner of the screen. In either mode, tap on a trip name to review the specific details of that trip.

#### List

The list can be ordered by date, distance, duration, or average speed.

#### Calendar

In calendar mode, the dates on which trip data has been recorded are marked with orange dots. Tap any date marked with a dot to view a list of trips taken on that day.

### Trip types

Trip type are represented by the following symbols:



Ordinary trip



Lap training



Other training

### Trip details

Tap on a trip to review the details.

### Naming a trip

Tap the where field and use the pop-up keyboard to enter the name of the trip. Tap "done" to accept.

### Viewing the route

Tap route at the bottom of the screen to review the route taken in the trip. This information is only recorded if GPS settings have been chosen and the GPS signal was strong enough during the trip.

### Viewing trip data in graphical format

Tap graphs at the bottom of the screen to graphically review trip data (displayed in landscape mode). Heart rate and cadence graphs will only be shown if the relevant sensors were used. Tap to select from speed, cadence, heart rate or altitude on the x-axis and time or distance on the y-axis.

### **Deleting trip data**

Tap delete at the bottom of the screen to permanently delete a trip from history. Deleting a trip will not affect your bike totals statistics.

### Bike totals

The bike totals are accessed by tapping the more button in the bottom right corner and selecting bike totals. BikeBrain records and cumulates distance (odometer), ride time, elapsed time, wheel revolutions, pedal revolutions, calories burned, and CO2 offset for each bike individually as well as for all bikes added together.

### **Trouble shooting**

The wrong name of the bike is displayed in the lower left corner of the console screen.

- 1. If you have two bike setups configured, move the current bike away from the other bike.
- 2. Tap the more button and hit "reconnect sensors".
- 3. Check the battery and magnet alignment of the sensor(s) of the current bike.

### The sensor signal turns off.

- 1. Check the battery of the sensor.
- 2. Check that all sensors are functioning.

3. Reinstall your iPhone in the BikeBrain Bike Mount.

### Unexpected speed, trip or odometer readings are recorded.

- 1. If you use GPS to calculate speed and distance in a trip, but forget to pause or finish the trip before sending BikeBrain to the background, further movement will be recorded as trip data. Remember to pause or finish a trip before moving your iPhone or taking other means of transportation.
- 2. To adjust the odometer, delete the trip and manually set the odometer in the bike set up screen.

### The GPS does not track my route.

- 1. Allow location services for the entire iPhone BikeBrain in the iPhone settings, under "general settings", then select "location services".
- 2. Deselect minimize GPS usage and view current location only in BikeBrain by tapping "more", then enter settings and tap "GPS settings".
- 3. Check the GPS signal strength during your trip.

### The world map is visible in the map screen, but there is no GPS signal.

1. Check GPS settings in the iPhone general settings.

### **Frequently Asked Questions**

# Q: What is the difference between turning off location services in iPhone settings and choosing "minimize GPS usage" in the general settings?

A: iOS 4 requires GPS to be activated in order to run an app in the background. If you turn off location services in your iPhone or do not allow BikeBrain to use your location, then BikeBrain cannot run in the background while you are receiving a phone call or using other apps. Choosing minimize GPS usage will shut down most GPS functions, but allow BikeBrain to run in the background. The GPS icon will appear periodically on the status bar (next to the battery icon) when the App is running in the background.

### Q: How can I turn off the pop up messages that come up during the ride?

A: Most of the pop up messages that appear during a trip will disappear automatically if ignored. However, the following will remain until user action is taken.

- The exceeding maximum heart rate warning will disappear once your heart rate has fallen.
- The finish trip window will remain until an option is selected by tapping the pause, finish or continue button.
- The lost connection with the paired sensors warning will remain until the sensors are reconnected. Stop and check the sensors to prevent data loss.

# Q: How can I use the Map screen to check my location if I ride in an area without mobile phone coverage or Wi-Fi connection?

A: The BikeBrain App uses Google Maps as the map source. Google Maps automatically caches map data for locations you have previously viewed by BikeBrain so we recommend you review your route in Google Maps before entering low network coverage areas.

To scroll in Google Maps, firstly disable the auto-center function by pressing the crosshairs button at the top of the map screen. Then, plan your route in the map at the same zoom you require. If you use a lower zoom, you will be limited to this level of map resolution if you enter an area without network coverage. Since the cache is limited and controlled by Google Maps, we recommend that you repeat the above, even if you have previously viewed an area.

### Q: Why do I need to run GPS?

A: Unless a speed sensor is installed, GPS calculates speed, distance, time, altitude, route, and related trip data so GPS must run continuously in the background to capture trip data.

## Q: But GPS drains my battery, are there other advantages or disadvantages of using GPS?

A: Advantages

Convenient, because a GPS receiver is already built-in to the iPhone.

No need to purchase and install additional hardware, such as an ANT+ receiver and speed sensor.

### Disadvantages

GPS is not as responsive and accurate as a speed sensor in calculating speed, distance, time and related trip data, especially if the GPS signal is not strong.

Since the GPS cannot distinguish between types of movement, you must finish or pause a trip when not riding, otherwise trip data and odometer readings may be distorted.

### Q: Why doesn't my training start automatically?

A: Since training trips are time dependent, you must manually select and start a training trip.

#### Q: Why can't I start a new trip?

A: BikeBrain cannot run more than one trip at a time. If you have already started a trip, tap finish then manually select a training trip.

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This EULA, including the BioLogic privacy policy incorporated by reference, is the entire agreement between you and BioLogic with respect to, and supersedes any previous oral or written communications or documents (including, if you are obtaining an update, any agreement that may have been included with an earlier version of the Software) concerning, the subject matter of this EULA. In no event shall any additional or inconsistent term in any purchase order or similar document submitted by you modify the terms of this EULA. This EULA is governed by the laws of the Hong Kong Special Administrative Region of the People's Republic of China. You agree that any dispute arising from or relating to this EULA shall be brought exclusively in a court of competent jurisdiction located in the Hong Kong Special Administrative Region of the People's Republic of China, and in no other jurisdiction, and you hereby consent to personal jurisdiction and venue in, and agree to service of process issued or authorized by, any such court. This EULA will not be governed by the U.N. Convention on Contracts for the International Sale of Goods. If any provision of this EULA is found to be invalid or unenforceable, it will be enforced to the extent permissible and the remainder of this EULA will remain in full force and effect. Failure by BioLogic to prosecute any right with respect to a default hereunder will not constitute a waiver by BioLogic of the right to enforce rights with respect to the same or any other breach.

### Contact us

BioLogic and BikeBrain are wholly owned by Mobility Holdings Ltd (HK). Please visit http://www.BikeBrain.net for software support issues.

### **End-User Terms Required by Apple**

You acknowledge and agree that (i) this EULA is concluded between you and BioLogic, and not Apple, Inc. ("Apple"); (ii) BioLogic, and not Apple, is solely responsible for the Software; (iii) Apple has no responsibility whatsoever to furnish any maintenance and support services with respect to the Software; (iv) in the event of any failure of the Software to conform to any applicable warranty, you may notify Apple and Apple will refund the purchase price you paid for the Software; (v) to the maximum extent permitted by applicable law, Apple will have no other warranty obligation whatsoever with respect to the Software; (vi) Apple is not responsible for any claims that you have arising out of your use of the Software; (vii) Apple will have no responsibility whatsoever for the investigation, defense, settlement or discharge of any third-party claim that the Software infringes that third party's intellectual property rights; and (viii) Apple and its subsidiaries are third party beneficiaries of this EULA and, upon your acceptance of this EULA, Apple will have the right (and will be deemed to have accepted the right) to enforce this EULA against you as a third party beneficiary. You represent and warrant that: (i) you are not located in a country that is subject to a U.S. Government embargo, or that has been designated by the U.S. Government as a "terrorist supporting" country; and (ii) you are not listed on any U.S. Government list of prohibited or restricted parties.

## **System requirements**

### Hardware

• iPhone 3G, 3GS, 4 or above

### Software

- iOS version 4.0 or above
- BikeBrain Lite / Pro