

# FORERUNNER® 610

OWNER'S MANUAL



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## Introduction

### WARNING

Always consult your physician before you begin or modify any exercise program. See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

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## Setting Up the Device

When using your Forerunner® the first time, follow the setup instructions in the *Forerunner 610 Quick Start Manual*.

## Registering Your Device

Help us better support you by completing our online registration today.

- Go to <http://my.garmin.com>.
- Keep the original sales receipt, or a photocopy, in a safe place.

## About the Battery

### WARNING

This product contains a lithium-ion battery. See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

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The device is powered by a built-in, lithium-ion battery that you can charge using the AC charger or the USB cable included in the product box ([page 40](#)).

## Keys

Each key has multiple functions.



①	<b>POWER/ LIGHT</b>	Hold to turn the device on and off. Select to turn on the backlight. Select to search for a compatible weight scale.
②	<b>START/ STOP</b>	Select to start and stop the timer.
③	<b>LAP/ RESET</b>	Select to mark a new lap. Hold to save your run and reset the timer.

④		Select to open the menu. Hold to exit the menu.
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## Icons

	GPS is on and receiving signals.
	Heart rate monitor is active.
	Foot pod is active.
	Bike sensor is active.
	Watch is in power save mode ( <a href="#">page 40</a> ).
	Fitness equipment is active.

## Tips and Shortcuts

### Touchscreen Tips

- Swipe up to exit power save mode.
- Tap the time page to view the battery status icon.
- Tap the touchscreen to confirm messages.
- Swipe right to return to the previous screen or menu level.
- Make each touchscreen selection or swipe a separate action.
- Do not use a hard or sharp object to operate the touchscreen.
- Thick gloves can hinder touchscreen operation.

### Changing Data Fields

On any training page, hold a data field until it is highlighted.

When you lift your finger, you are prompted to select a new data field ([page 34](#)).

### Locating Satellite Signals

It may take 30–60 seconds to locate satellite signals.

1. From the time page, swipe up to view the locating satellites banner.
2. Go outdoors to an open area.
3. Wait while the Forerunner searches for satellites.

Do not begin your activity until the locating satellites banner disappears.

The time of day and date are set automatically.

## Your Training

This section describes the following training features and settings:

- Run Basics (pages 6–7)
- Alerts (page 7)
- Auto Lap® (page 9)
- Auto Pause® (page 10)
- Auto Scroll (page 11)
- Virtual Partner® (page 11)
- Virtual Racer™ (page 11)
- Interval Workouts (page 12)
- Custom Workouts (page 13)
- Bike Training (page 16)

### Going for a Run

Before you can record history, you must locate satellite signals (page 5) or pair your Forerunner with an optional foot pod.

1. From the timer page, select **START** to start the timer ①.

History is recorded only while the timer is running. Your distance ② and lap pace ③ appear on the timer page.



- The data fields shown are the defaults. You can customize data fields (page 34).
2. Swipe left to view additional training pages (if enabled).
  3. After completing your run, select **STOP**.




## Saving Your Run

Hold **RESET** to save your run and reset the timer.

## Run Options

### Displaying Pace or Speed

1. Select  > **Setup**.
2. Select **Training Pages**.
3. Select a training page to customize.
4. Select a data field to customize.
5. Select **Pace/Speed**.
6. Select the type of pace or speed data you want to appear on the training page.

For a complete list of the available data fields and descriptions, see [page 34](#).


## Alerts

**NOTE:** Alerts do not function during interval or custom workouts.

You can use alerts to train toward specific time, distance, calorie, heart rate, and cadence goals.

**NOTE:** To turn on alert tones and vibrations, see [page 31](#).


### Setting Time, Distance, and Calorie Alerts

1. Select  > **Training** > **Run Options** > **Alerts**.
2. Select **Time**, **Distance**, or **Calorie**.
3. Select **On**.
4. Select **Alert At**, and enter a time, distance, or calorie amount.

Each time you reach the alert amount, the device beeps and displays a message.

## Setting Advanced Alerts

If you have an optional heart rate monitor or GSCTM 10, you can set up advanced alerts for heart rate and cadence.


1. Select  > **Training** > **Run Options** > **Alerts**.
2. Select an option:
  - Select **Heart Rate** to set the high and low heart rate values in beats per minute (bpm).  
**NOTE:** For more information about heart rate zones and settings, see [page 18](#).
  - Select **Cadence** to set the high and low cadence amounts in steps per minute (spm) or revolutions of the crank arm per minute (rpm).
3. Set the parameters for your heart rate or cadence alerts.

Each time you exceed or drop below

the specified heart rate or cadence amount, the device beeps and displays a message.

## Setting Walk Break Alerts

Some running programs use timed walking breaks at regular intervals. For example, during a long training run, the program may instruct you to run for four minutes, then walk for 1 minute, and repeat.

1. Select  > **Training** > **Run Options** > **Alerts**.
2. Select **Run/Walk** > **Run/Walk Alert** > **On**.
3. Select **Run Alert**, and enter a time.
4. Select **Walk Alert**, and enter a time.


Each time you reach the alert amount, the device beeps and displays a message. The run/walk alerts will repeat until you stop the timer.

## Auto Lap

**NOTE:** Auto Lap does not function during interval or custom workouts.

## Marking Laps by Position

You can use Auto Lap to automatically mark the lap at a specific position. This feature is helpful for comparing your performance over different parts of a run (for example, a long hill or training sprints).

1. Select  > **Training** > **Run Options** > **Auto Lap**.
2. Select **Auto Lap** > **By Position**.
3. Select **Lap At**, and select an option:
  - Select **Lap Press Only** to trigger the lap counter each time you select **LAP** and each time you pass any of those positions again.
- Select **Start And Lap** to trigger the lap counter at the GPS location where you select **START** and at any location during the run where you select **LAP**.
- Select **Mark And Lap** to trigger the lap counter at a specific GPS location marked before the run (use **Mark Position**) and at any location during the run where you select **LAP**.
4. If necessary, customize the lap data fields ([page 34](#)).

## Marking Laps by Distance

You can use Auto Lap to automatically mark the lap at a specific distance. This feature is helpful for comparing your performance over different parts of a run (for example, every mile or kilometer).

1. Select **≡** > **Training** > **Run Options** > **Auto Lap**.
2. Select **Auto Lap** > **By Distance**.
3. Select **Lap At**, and enter a distance.
4. If necessary, customize the lap data fields ([page 34](#)).

## Pausing Your Run Automatically

**NOTE:** Auto Pause does not function during interval or custom workouts.

You can use Auto Pause to pause the timer automatically when you stop moving or when your speed drops below a specified value. This feature is helpful if your run includes stop lights

or other places where you need to slow down or stop.


**NOTE:** The paused time is not saved with your history data.

1. Select **≡** > **Training** > **Run Options** > **Auto Pause**.
2. Select **Auto Pause**, and select an option:
  - To pause the timer automatically when you stop moving, select **When Stopped**.
  - To pause the timer automatically when your speed drops below a specified value, select **Custom Speed**.
3. If necessary, customize optional time data fields ([page 34](#)).

To view the entire time (from pressing **START** to **RESET**), select the **Time - Elapsed** data field.


## Using Auto Scroll

You can use the auto scroll feature to automatically cycle through all of the training data pages while the timer is running.

1. Select  > **Training > Run Options > Auto Scroll.**
2. Select **Auto Scroll**, and select a display speed: **Slow**, **Medium**, or **Fast**.

## Running With a Virtual Partner

Your Virtual Partner is a training tool designed to help you meet your goals.

1. Select  > **Training > Run Options > Virtual Partner.**
2. Select **Virtual Partner > On.**
3. Select **Format**, and select **Speed** or **Pace**.
4. Enter a value for the Virtual Partner's speed or pace.

5. Select **Alert > On** to hear audible alerts during your run (optional).
6. Go for a run.
7. Scroll to the Virtual Partner page to see who is leading.




## Virtual Racer

Your Virtual Racer is a training tool designed to help you improve your performance. For example, you can practice running the actual race route and save it to your Forerunner. On race day, you can race against that practice run. The Virtual Racer pushes you to beat your previous pace including hills where you might slow down and the

final sprint to the finish line.

### Running With a Virtual Racer

Before you can run with a Virtual Racer, you must have at least one saved activity.

1. Select  > **Training** > **Run Options** > **Virtual Racer**.
2. Select **Create New Race**, and select an activity from the list.
3. Enter a name.
4. Select the race, and select **Do Race**.

### Virtual Racer Options


Select  > **Training** > **Run Options** > **Virtual Racer**.

- **View Stats**—Displays the time and distance of the previous activity.
- **Race Options**—Allows you to edit the race name or delete the race.

## Interval Workouts

You can create interval workouts based on distance or time. Your custom interval workout is saved until you create another interval workout.

### Creating an Interval Workout

1. Select  > **Training** > **Workouts** > **Intervals**.
2. Select **Edit Workout**.
3. Select **Type**, and select **Distance** or **Time**.

**TIP:** To create an open-ended interval, set the type to “Open.”

4. Enter a distance or time interval value.
5. Select **Rest Type**, and select **Distance**, **Time**, or **Open**.
6. If necessary, enter a distance or time value for the rest interval.
7. Select the number of repetitions.

- If necessary, select **Warmup** > **Yes** to add an open-ended warm up to your workout.
- If necessary, select **Cooldown** > **Yes** to add an open-ended cooldown to your workout.

### Starting an Interval Workout

- Select  > **Training** > **Workouts** > **Intervals** > **Do Workout**.

- Select **START**.

If your interval workout has a warm up, you must select **LAP** to begin the first interval.

- Follow the on-screen instructions.

When you complete all of the intervals, a message appears.

### Stopping an Interval Workout

- At any time, select **LAP** to end an interval early.
- At any time, select **STOP** to stop the timer.
- If your interval workout has a cool down, you must select **LAP** to end the interval workout.

### Custom Workouts

Custom workouts can include goals for each workout step and varied distances, times, and calories. You can create custom workouts using Garmin Training Center® or Garmin Connect® ([page 26](#)) and transfer them to the Forerunner. However, you can also create and save a custom workout directly on your Forerunner.

## Creating a Custom Workout

1. Select **≡** > **Training** > **Workouts** > **Custom** > **Create New**.
2. Select **Run 000** to edit the name of the workout.
3. Select **Add New Step**.
4. Select **Duration** to specify how the step will be measured.

For example, select **Distance** to end the step after a specific distance.

If you select **Open**, you can select **LAP** to end the step during your workout.

5. If necessary, select **Duration Value**, and enter a value.
6. Select **Target** to choose your goal during the step.  
For example, select **Heart Rate** to maintain a consistent heart rate during the step.
7. If necessary, select a target zone or enter a custom range.

For example, you can select a heart rate zone. Each time you exceed or drop below the specified heart rate, the device beeps and displays a message.

8. If necessary, select **Rest Lap** > **Yes**.  
During a rest lap, the timer continues to run and data is recorded.
9. If necessary, add another step to the workout.

## Repeating a Custom Workout Step

Before you can repeat a workout step, you must create a workout with at least one step.

1. Select **Add New Step**.
  2. Select **Duration**, and select an option:
    - Select **Repeat** to repeat a step one or more times.
- For example, you can repeat a 5-mile step ten times.




- Select **Repeat Until** to repeat a step for a specific duration.

For example, you can repeat a 5-mile step for 60 minutes or until your heart rate reaches 160 bpm.

3. Select **Back To Step**, and select a step to repeat.
4. Select to save the step.

### Starting a Custom Workout

1. Select  > **Training** > **Workouts** > **Custom**.
2. Select a workout, and select **Do Workout**.
3. Select **START**.
4. Follow the on-screen instructions.

When you complete all of the steps, a message appears.

### Stopping a Custom Workout

- At any time, select **LAP** to end a step early.
- At any time, select **STOP** to stop the timer.

### Deleting a Custom Workout

1. Select  > **Training** > **Workouts** > **Custom Workout**.
2. Select the workout.
3. Select **Delete Workout** > **Yes**.

### Sending Workouts to Your Device

Before you can wirelessly send workouts to your device, you must pair the USB ANT Stick™ with your computer ([page 27](#)).

1. Connect the USB ANT Stick to your computer.
2. Open Garmin Training Center or Garmin Connect ([page 26](#)).
3. Follow the on-screen instructions.

## Following an Activity From the Web

You must have a Garmin Connect account ([page 26](#)).

1. Connect the device to your computer.
2. Go to [www.garminconnect.com](http://www.garminconnect.com), and find an activity.
3. Click **Send to Device**.
4. Disconnect the device, and turn it on.
5. Select **☰ > Training > Workouts > Custom Workout**.
6. Select a workout, and select **Do Workout**.

## Bike Training Options

Many of the training features of the Forerunner can be applied to cycling. For the most accurate and consistent data, you should customize the cycling settings.

## Changing Your Sport to Cycling

Before you customize any of your training options for cycling, you must change your sport.

Your Forerunner can display data and history for your bike training.

1. Select **☰ > Training > Sport > Cycling Options > Show**.
2. Select **Current Sport > Cycling**.

After changing your sport, you can set up alerts, Auto Lap, Auto Pause, and Auto Scroll settings for your bike training ([pages 7–11](#)).

## Training With a Bike Sensor

For information about the GSC™ 10, see [page 21](#).

## ANT+ Sensors

The Forerunner is compatible with the following ANT+ accessories:





- Heart rate monitor (page 18)
- Foot pod (page 20)
- GSC 10 (page 21)
- Weight Scale (page 22)
- Fitness Equipment (page 22)



For information about purchasing additional accessories, go to <http://buy.garmin.com>.

### Pairing Your ANT+ Sensors

Before you can pair, you must put on the heart rate monitor or install the sensor. See the *Forerunner 610 Quick Start Manual* or the accessory instructions.

If your Forerunner does not show data from the accessory, you may need to pair the accessory to your Forerunner. Pairing is the connecting of ANT+™ wireless sensors, for example, connecting your foot pod with a Forerunner. After you pair the first time, your Forerunner automatically recognizes your foot pod each time it is activated.

- Make sure that the ANT+ sensor is compatible with your Garmin device.
- Bring the Forerunner within range (3 m) of the ANT+ sensor.  
Stay 10 m away from other ANT+ sensors while pairing.
- If  is off, select  > **Setup** > **Heart Rate Monitor** > **HR Monitor** > **On** > **Search for New**.
- If  is off, select  > **Setup** > **Foot Pod** > **Foot Pod** > **On** > **Search for New**.

- If  is off, select  > **Setup** > **Bike Sensor** > **Bike Sensor** > **On** > **Search for New**.
- If you still cannot pair the accessory, replace the accessory battery (heart rate monitor, [page 42](#)).


When the accessory is paired, a message appears, and the accessory icon ([page 4](#)) appears solid on the screen.

## Heart Rate Monitor

### Setting Your Heart Rate Zones

Before you can customize your heart rate zones, you must enable the heart rate monitor.

The Forerunner uses your user profile information from the initial setup to determine your heart rate zones. For the most accurate calorie data during your activity, set your maximum heart rate, resting heart rate, and heart rate zones.

1. Select  > **Setup** > **Heart Rate Monitor** > **HR Zones**.
2. Select **Based On** > and select an option:
  - Select **BPM** to view and edit the zones in beats per minute.
  - Select **% Max.** to view and edit the zones as a percentage of your maximum heart rate.
  - Select **% HRR** to view and edit the zones as a percentage of your resting heart rate.
3. Select **Max. HR**, and enter your maximum heart rate.

4. Select **Resting HR**, and enter your resting heart rate.

The zone values update automatically; however, you can still edit each value manually.

### About Heart Rate Zones

Many athletes are using heart rate zones to measure and increase their cardiovascular strength and improve their level of fitness. A heart rate zone is a set range of heartbeats per minute.

The five commonly accepted heart rate zones are numbered from 1 to 5 according to increasing intensity. Generally, heart rate zones are calculated based on percentages of your maximum heart rate.

### Fitness Goals

Knowing your heart rate zones can help you measure and improve your fitness by understanding and applying these principles:

- Your heart rate is a good measure of exercise intensity.
- Training in certain heart rate zones can help you improve cardiovascular capacity and strength.
- Knowing your heart rate zones can prevent you from overtraining and can decrease your risk of injury.

If you know your maximum heart rate, you can use the table ([page 23](#)) to determine the best heart rate zone for your fitness objectives.

If you do not know your maximum heart rate, use one of the calculators available on the Internet. Some gyms and health centers can provide a test that measures maximum heart rate.

## More Heart Rate Options

- Heart rate alerts (page 8)
- Heart rate zone calculations (page 23)
- Heart rate data fields (page 34)
- Heart rate troubleshooting (page 24)

## Foot Pod

Your Forerunner is compatible with the foot pod. You can use the foot pod to send data to your Forerunner when training indoors, when your GPS signal is weak, or when you lose satellite signals. The foot pod is on standby and ready to send data. You must pair the foot pod with your Forerunner (page 17).

After 30 minutes of inactivity, the foot pod powers off to conserve the battery. When the battery is low, a message appears on your Forerunner.

Approximately five hours of battery life remain.


## Choosing Your Speed Source

If you plan to train with the foot pod, for example, on an indoor track, you can set the Forerunner to use foot pod data instead of searching for GPS satellites.

Select  > **Setup** > **Foot Pod** > **Speed Source** > **Foot Pod**.

## Calibrating Your Foot Pod

If your foot pod distance seems slightly high or low each time you run, you can manually adjust the calibration factor. The calibration formula is actual distance (use a regulation track) / recorded distance  $\times$  current calibration factor = new calibration factor. For example,  $1600 \text{ m} / 1580 \text{ m} \times 95 = 96.2$ .

1. Select  > **Setup** > **Foot Pod** > **Calibration Factor**.
2. Adjust the calibration factor.

## GSC 10


Cadence data from the GSC 10 is always recorded. If there is no GSC 10 paired, GPS data is used to calculate the speed and distance. Cadence is your rate of pedaling or “spinning” measured by the number of revolutions of the crank arm per minute (rpm). There are two sensors on the GSC 10: one for cadence and one for speed.

### Calibrating Your Bike Sensor

Before you customize the bike sensor options, you must change your sport to cycling ([page 16](#)).

Before you can calibrate your bike sensor, it must be properly installed and actively recording data.

Calibrating your bike sensor is optional and can improve accuracy. For calibration instructions specific to your power meter, refer to the manufacturer’s instructions.

1. Select  > **Setup** > **Bike Sensor** > **Calibration**.
2. Select an option:
  - To use GPS to determine your wheel size, select **Auto**.
  - To enter your wheel size, select **Manual**.

### More Bike Options

- Cadence alerts ([page 8](#))
- Bike training ([page 16](#))
- Cadence data fields ([page 34](#))

## Using the Weight Scale

If you have an ANT+ compatible weight scale, the Forerunner can read the data from the weight scale.

1. Select **LIGHT**.

A message appears when the weight scale is found.

2. Stand on the scale.

**NOTE:** If using a body composition scale, remove shoes and socks to ensure that all body composition parameters are read and recorded.

3. Step off the scale.

**TIP:** If an error occurs, step off the scale, and try again.

## Fitness Equipment

ANT+ technology automatically links your Forerunner and heart rate monitor to fitness equipment so you can view your data on the equipment console. Look for the ANT+ Link Here logo on compatible fitness equipment.




Go to [www.garmin.com/antplus](http://www.garmin.com/antplus) for more linking instructions.



## Heart Rate Zone Calculations

Zone	% of Maximum Heart Rate	Perceived Exertion	Benefits
1	50–60%	Relaxed, easy pace; rhythmic breathing	Beginning-level aerobic training; reduces stress
2	60–70%	Comfortable pace; slightly deeper breathing, conversation possible	Basic cardiovascular training; good recovery pace
3	70–80%	Moderate pace; more difficult to hold conversation	Improved aerobic capacity; optimal cardiovascular training
4	80–90%	Fast pace and a bit uncomfortable; breathing forceful	Improved anaerobic capacity and threshold; improved speed
5	90–100%	Sprinting pace, unsustainable for long period of time; labored breathing	Anaerobic and muscular endurance; increased power

## ANT+ Sensor Troubleshooting


Problem	Solution
I have a third-party ANT+ sensor.	Make sure that it is compatible with the Forerunner ( <a href="http://www.garmin.com/intosports">www.garmin.com/intosports</a> ).
I want to use the foot pod data only if GPS data is not available.	<p>The Forerunner can only record data from one source at a time. You can have both data sources ready to go before you start training.</p> <ol style="list-style-type: none"><li>1. Install and pair the Forerunner with the foot pod.</li><li>2. Select  &gt; <b>Setup</b> &gt; <b>Foot Pod</b> &gt; <b>Speed Source</b> &gt; <b>GPS</b>.</li><li>3. Allow the Forerunner to locate satellites, and start the timer.</li></ol>
The heart rate data is inaccurate or erratic.	<ul style="list-style-type: none"><li>• Make sure that the heart rate monitor is snug against your body.</li><li>• Warm up for 5–10 minutes.</li><li>• Reapply moisture to the electrodes. Use water, saliva, or electrode gel.</li><li>• Clean the electrodes. Dirt and sweat residue on the electrodes can interfere with heart rate signals.</li><li>• Position the electrodes on your back instead of your chest.</li><li>• Wear a cotton shirt or wet your shirt if suitable for your activity. Synthetic fabrics that rub or flap against the heart rate monitor can create static electricity that interferes with heart rate signals.</li><li>• Move away from sources of strong electromagnetic fields and some 2.4 GHz wireless sensors, which can interfere with your heart rate monitor. Sources of interference may include high-voltage power lines, electric motors, microwave ovens, 2.4 GHz cordless phones, and wireless LAN access points.</li></ul>

## History

Your Forerunner stores data based on the type of activity, the accessories used, and your training settings. The Forerunner can save approximately 180 hours of history with typical use. When the Forerunner memory is full, your oldest data is overwritten.


### Viewing History

The history displays the date, time of day, distance, activity time, calories, and average and maximum pace or speed. The history can also display the average and maximum heart rate and cadence data if you are using the heart rate monitor, foot pod, or cadence sensor (optional accessories).


1. Select  > **History** > **Activities**.
2. Swipe up or down to view your saved activities or select **Activity in Progress**.

3. Select an activity, and swipe left to view lap information.
4. Swipe up or down to scroll through laps.

### Viewing Pace or Speed in History

1. Select  > **History** > **Options**.
2. Depending on what sport you are using, select **Running** or **Cycling**.
3. Select **Show Pace** or **Show Speed**.

### Viewing Totals

1. Select  > **History** > **Totals**.  
Your total time and distance appear.
2. Select **Weekly** or **Monthly**.

## Resetting Your Totals

You can reset the distance and time totals that appear on the device.

**NOTE:** This does not delete any history.

Select  > **History** > **Options** > **Reset Totals** > **Yes**.

## Deleting History

### Deleting a Run

1. Select  > **History** > **Activities**.
2. Select a run.
3. Swipe up.
4. Select **Delete** > **Yes**.

### Deleting All Activities

Select  > **History** > **Options** > **Delete All Activities** > **Yes**.

## Using Free Software

Garmin provides two software options for storing and analyzing your run history.

- Garmin Connect is Web-based software ([www.garminconnect.com](http://www.garminconnect.com)). You can use Garmin Connect on any computer with Internet access.
  - Garmin Training Center is computer software that does not require the Internet after installation. It operates directly on your computer, not on the Internet.
1. Go to [www.garmin.com/intosports](http://www.garmin.com/intosports).
  2. Select your product.
  3. Click **Software**.
  4. Follow the on-screen instructions.

## Sending History to Your Computer

Before connecting the USB ANT Stick to your computer, you must download the free software ([page 26](#)) so that the necessary USB drivers are installed.

1. Plug the USB ANT Stick ① into a USB port on your computer.



2. Bring your device within range (3 m) of your computer.
3. When the ANT Agent finds your device, the ANT Agent displays the unit ID and asks you if you want to pair.
4. Select **Yes**.
5. Follow the instructions included with the software.

## Preventing Data Transfer

You can prevent transferring data to or from any computer, even a paired computer.

Select  > **Setup** > **System** > **Data Transfer** > **Data Transfer** > **Off**.

## Navigation

This section describes the management of saved locations and navigating with the Forerunner.

### Locations

#### Viewing and Saving Your Current Location

Before you can view and save your location, you must locate satellite signals.

You can save your current location, such as your home or parking spot.

1. Select **☰ > Where To? > Where Am I?**.

Your current coordinates appear.

2. Select **Save Location**.
3. If necessary, select **Edit Location** to edit the properties.

#### Editing Locations

1. Select **☰ > Where To? > Locations**.
2. Select a location.
3. Select **Edit Location**.
4. Select an attribute.

For example, select **Elevation** to enter a known altitude for the location.


5. Enter the new information.

#### Deleting Locations

1. Select **☰ > Where To? > Locations**.
2. Select a location.
3. Select **Delete Location > Yes**.

## Navigating to a Saved Location

Before you can navigate to a saved location, you must locate satellite signals.

1. Select  > **Where To?** > **Locations**.
2. Select a location.
3. Select **Go to Location**.


The compass page appears.

To record the activity, you must start the timer.

## Navigating Back to Start

You can only navigate to your starting location, if you are training with GPS.

At any point during your run, you can return to your starting point. You must start the timer in order to use this feature.

1. During your run, select **STOP**, but do not reset the timer.
2. Select  > **Where To?** > **Back to Start** > **Go**.


The Forerunner navigates you back to the starting point your run.

## Stopping the Navigation

Select  > **Where To?** > **Stop Navigation**.

## GPS Settings

### Turning Off GPS

Select  > **Where To?** > **GPS** > **GPS** > **Off**.

When GPS is off, speed and distance data are not available unless you have an optional sensor that sends speed and distance data to the device (such as the foot pod or GSC 10). The next time you turn on the device, it will search for satellite signals again.

## Satellite Page

The satellite page shows your current GPS satellite information.

Select  > **Where To?** > **Satellites**.

On the satellite page, GPS accuracy appears at the bottom of the page. The bars represent the strength of each satellite signal received (the number of the satellite appears below each bar).

For more information about GPS, go to [www.garmin.com/aboutGPS](http://www.garmin.com/aboutGPS).



## Settings

### Time Settings

#### Setting the Time Manually

By default, the watch time is set automatically when the Forerunner locates satellites.

1. Select **≡** > **Setup** > **Time** > **Set Time** > **Manual**.
2. Enter the time.
3. If necessary, select **Time Format** to choose between 12 hour or 24 hour.

#### Setting the Alarm

1. Select **≡** > **Setup** > **Alarm**.
2. Select **Alarm** > **On**.
3. Select **Time**, and enter a time.

#### Time Zones

Each time you locate satellites, the device automatically detects your time zone and the current time of day.


### System and Display Settings

Select **≡** > **Setup** > **System**.

- **Language**—sets the device language.
- **Key Tones**—sets the device to use audible tones for key presses.
- **Alert Tones**—sets the device to use audible tones for messages.
- **Alert Vibration**—sets the device to use vibration for messages.
- **Display**—Reverses black on white (normal) screen items to white on black (inverted).
- **Backlight**—[page 40](#).

### Customizing the Unit Settings

You can customize units of measure for distance, pace and speed, elevation, position format, and weight.

1. Select  > **Setup > System > Units.**
2. Select a setting.
3. Select a unit for the setting.

### Setting Your User Profile

The Forerunner uses information that you enter about yourself to calculate accurate run data. You can modify the following user profile information: gender, age, weight, height, and lifetime athlete.

1. Select  > **Setup > User Profile.**
2. Modify the settings.

### About Lifetime Athletes

A lifetime athlete is an individual who has trained intensely for many years (with exception of minor injuries) and has a resting heart rate of 60 beats per minute (bpm) or less. The lifetime athlete setting affects certain weight scale calculations.

### About Calories

Calorie expenditure and heart rate analysis technology is provided and supported by Firstbeat Technologies Ltd. For more information, go to [www.firstbeattechnologies.com](http://www.firstbeattechnologies.com).

### About Training Effect


Training effect measures the impact of activities on your aerobic fitness level. Your training effect is calculated using your user profile information, your heart rate, and the difficulty of the activity. It appears as a number 1.0 to 5.0. It is important to know that your training effect numbers may seem

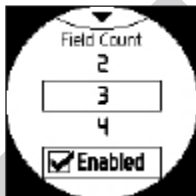
abnormally high during your first few runs. It takes several activities for the device to learn your activity level.

Training effect technology is provided and supported by Firstbeat Technologies Ltd. For more information, go to [www.firstbeattechnologies.com](http://www.firstbeattechnologies.com).

## Customizing the Training Pages

You can customize the data fields on four training pages.

1. Select  > **Setup** > **Training Pages**.
2. Swipe left to select a training page.
3. If necessary, swipe up to enable the training page.
4. Select the number of data fields you want to see on the page.



5. Select **Enabled**.
6. Swipe down to view the current data fields.
7. Select a data field to change it.
8. Select a category and a data field.

For example, select **Heart Rate** > **Heart Rate - Lap**.

## Data Fields

Data fields with the \* symbol display statute or metric units. Data fields with the \*\* symbol require an ANT+ sensor.

Data Field	Description
Cadence **	For running, cadence is measured in steps per minute (spm). For cycling, cadence is measured in revolutions of the crank arm per minute (rpm).
Cadence – Average. **	Average cadence for the duration of your current activity.
Cadence – Lap **	Average cadence for the current lap.
Calories	Amount of total calories burned.
Calories - Fat	Amount of fat calories burned.

Data Field	Description
Calories to Go	During a custom workout, the remaining calories when the step duration is a calorie amount.
Distance *	Distance traveled for the current activity.
Distance – Lap *	Distance traveled in the current lap.
Distance – Last Lap *	Distance of the last completed lap.
Distance to Go *	During a workout, the remaining distance when the step duration is a distance amount.
Elevation *	Distance above or below sea level.
GPS Accuracy *	The margin of error for your exact location. For example, your GPS location is accurate to within +/- 12 feet.

<b>Data Field</b>	<b>Description</b>
Grade	Calculation of rise over run. For example, if for every 10 feet you climb (elevation) you travel 200 feet (distance), your grade is 5%.
Heading	The direction you are moving.
Heart Rate **	Heart rate in beats per minute (bpm).
Heart Rate to Go	During a custom workout, the amount you are above or below the heart rate target.
HR – %HRR **	Percentage of heart rate reserve (maximum heart rate minus resting heart rate).
HR – %Max. **	Percentage of maximum heart rate.
HR – Average **	Average heart rate for the duration of your current activity.


<b>Data Field</b>	<b>Description</b>
HR – Avg. %HRR **	Average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the activity.
HR – Avg. %Max. **	Average percentage of maximum heart rate for the activity.
HR – Lap **	Average heart rate in the current lap.
HR – Lap %HRR **	Average percentage of heart rate reserve (maximum heart rate minus resting heart rate) for the lap.
HR – Lap %Max. **	Average percentage of maximum heart rate for the lap.
HR Graph **	Line graph showing your current heart rate zone (1 to 5).

<b>Data Field</b>	<b>Description</b>
HR Zone **	Current range of heart rate (1 to 5). The default zones are based on your user profile, maximum heart rate, and resting heart rate.
Lap Pace Zone	Range of pace (ten zones available) for the current lap.
Lap Speed Zone *	Range of speed (ten zones available) for the current lap.
Laps	Number of laps completed.
Pace	Current pace.
Pace – Average	Average pace for the duration of your current activity.
Pace – Lap	Average pace in the current lap.
Pace – Last Lap	Average pace during the last completed lap.

<b>Data Field</b>	<b>Description</b>
Pace Zone	Current range of pace (ten zones available).
Reps to Go	During an interval workout, the remaining repetitions.
Speed *	Current speed.
Speed – Average *	Average speed for the activity.
Speed – Lap *	Average speed in the current lap.
Speed – Last Lap *	Average speed during the last completed lap.
Speed Zone *	Current range of speed (ten zones available).
Sunrise	The time of sunrise based on your GPS position.
Sunset	The time of sunset based on your GPS position.
Time	Stopwatch time.

Data Field	Description
Time – Avg. Lap	Average time to complete the laps so far.
Time - Elapsed	Total time recorded from pressing <b>START</b> to <b>RESET</b> .
Time – Lap	Amount of time in the current lap.
Time – Last Lap	Amount of time during the last completed lap.
Time of Day	Current time of day based on your time settings (format, time zone, and daylight saving time).
Time to Go	During a workout, the remaining time in the interval or step.
Training Effect **	Current impact on your personal fitness level (1 to 5) determined by your user profile information, heart rate, and difficulty of the activity (page 32).

## Customizing the Favorites Category

1. Select  > **Setup** > **Training Pages**.
2. Select a training page.
3. Select a data field to change it.
4. Select **Favorites** > **Edit Favorites**.
5. Select one or more data fields.

# Appendix

## Specifications

### NOTICE

The Forerunner is waterproof to IEC Standard 60529 IPX7. It can withstand immersion in 1 meter of water for 30 minutes. Prolonged submersion can cause damage to the unit. After submersion, be certain to wipe dry and air dry the unit before using or charging.

**NOTE:** The Forerunner is not intended to be used while swimming.

Forerunner Specifications	
Battery	200 mAh rechargeable, lithium-ion, coin-cell battery
Battery life	<a href="#">Page 39</a>
Operating temperature range	From -4°F to 140°F (from -20°C to 60°C)
Radio frequency/protocol	2.4 GHz ANT+ wireless communications protocol
Compatible accessories	ANT+ wireless technology on this Forerunner works with the heart rate monitor, foot pod, and GSC 10.



Heart Rate Monitor Specifications	
Water resistance	98.4 ft. (30 m) This product does not transmit heart rate data to your GPS device while swimming.
Battery	User-replaceable CR2032, 3 volts <a href="#">Page 39</a>
Battery life	Approximately 4.5 years (1 hour per day)
Operating temperature	From 23°F to 122°F (from -5°C to 50°C) <b>NOTE:</b> In cold conditions, wear appropriate clothing to keep the heart rate monitor near your body temperature.
Radio frequency/protocol	2.4 GHz ANT+ wireless communications protocol

## About the Battery

### WARNING

This product contains a lithium-ion battery. See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.


### Forerunner Battery Life

Battery Life*	Forerunner Use
1 week	You are training for 45 minutes per day with GPS. The Forerunner is in power save mode for the remaining time.
Up to 4 weeks	You are using the Forerunner in power save mode the entire time.
Up to 8 hours	You are training with GPS the entire time.

\*The actual battery life of a fully charged battery depends on how much time you use GPS, the backlight,

and power save mode. Exposure to extremely cold temperatures will also reduce battery life.


## Power Save

After a period of inactivity, the Forerunner goes into power save mode and  appears. The Forerunner displays the time and date, but does not connect with your ANT+ accessories or use GPS. Swipe up to exit power save mode.

## Maximizing Battery Life

Extensive use of screen backlighting can significantly reduce battery life.

### Setting the Backlight

1. Select  > **Setup** > **System** > **Backlight** > **Mode**.
2. Select an option:
  - To activate the backlight only using the **LIGHT** key, select **Manual**.

- To activate the backlight for all key presses and messages, select **Keys/Alerts**.

3. Select **Brightness** to adjust the brightness level.

### Adjusting the Backlight Timeout

1. Select  > **Setup** > **System** > **Backlight** > **Timeout**.
2. Select a short backlight timeout.

## Charging the Forerunner

### NOTICE

To prevent corrosion, thoroughly dry the contacts and the surrounding area before charging or connecting to a computer.

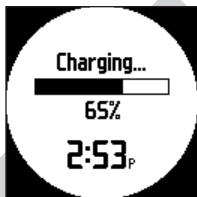
1. Plug the USB end of the cable into the AC adapter.
2. Plug the AC adapter into a standard wall outlet.

3. Align the contacts on the back of the Forerunner with the posts on the charging cradle ①.

The charging cradle is magnetic and holds the Forerunner in place.



When you connect the Forerunner to a power source, the Forerunner turns on, and the charging screen appears.



4. Charge the Forerunner completely.

## Heart Rate Monitor Battery

### **WARNING**

Do not use a sharp object to remove user-replaceable batteries. Contact your local waste disposal department to properly recycle the batteries. Perchlorate Material – special handling may apply. See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

## Replacing the Heart Rate Monitor Battery

1. Use a small Phillips screwdriver to remove the four screws on the back of the module.
2. Remove the cover and battery.



3. Wait 30 seconds.
4. Insert the new battery with the positive side facing up.  
**NOTE:** Do not damage or lose the O-ring gasket.
5. Replace the back cover and the four screws.

After you replace the heart rate monitor battery, you must pair it with the device again.

## Changing the Wrist Band

You can purchase a fabric wrist band accessory for the Forerunner (<http://buy.garmin.com>).

1. Use the pin tool ① to remove the pins ②.



- NOTE:** Do not discard the pins.
2. Align the top of the Forerunner ③ with the connector ④.



3. Insert the tapered end ⑤ of the pin to secure the connector to the Forerunner.

**TIP:** You must firmly press the pin into the connector. Use a sturdy, blunt object, if necessary.

4. Align the connector with the loop ⑥ of the fabric wrist strap.
5. Insert the tapered end of the pin ⑦ to secure the connector to the loop.
6. Repeat steps 2–5 for the bottom connector.

## Caring for Your Device

### NOTICE

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

Never use a hard or sharp object to operate the touchscreen, or damage may result.

Do not use a sharp object to clean the area between the screen and bezel.

Avoid chemical cleaners and solvents that can damage plastic components.

### Cleaning the Device

1. Use a cloth dampened with a mild detergent solution.
2. Wipe it dry.

## **Cleaning the Screen**


1. Use a soft, clean, lint-free cloth.
2. If necessary, use water, isopropyl alcohol, or eyeglass lens cleaner.
3. Apply the liquid to the cloth, and gently wipe the screen with the cloth.

## **Caring for the Heart Rate Monitor**

You must unsnap the module before cleaning the strap.

- Rinse the strap after every use.
- Hand wash the strap in cold water with a mild detergent after every five uses.
- Do not put the strap in a washing machine or a dryer.
- To prolong the life of your heart rate monitor, unsnap the module when not in use.

## Troubleshooting

Problem	Solution
The keys do not respond. How do I reset the device?	<ol style="list-style-type: none"> <li>1. Hold <b>POWER</b> until the screen goes blank.</li> <li>2. Hold <b>POWER</b> until the screen turns on.</li> </ol> <p><b>NOTE:</b> This does not erase any of your data or settings.</p>
I want to clear all the user data from my device.	<p><b>NOTE:</b> This deletes all user-entered information, but it does not delete your history.</p> <ol style="list-style-type: none"> <li>1. Turn off the device.</li> <li>2. While holding <b>LAP</b>, turn the device on.</li> <li>3. Select <b>Yes</b>.</li> </ol>
My device does not locate satellite signals.	<ol style="list-style-type: none"> <li>1. Take your device out of parking garages and away from tall buildings and trees.</li> <li>2. Remain stationary for several minutes.</li> </ol>
Some of my data is missing from the history.	When the device memory is full, your oldest data is overwritten. Transfer data to your computer regularly to avoid losing data.
Where is the software version information?	Select  > <b>Setup</b> > <b>System</b> > <b>About</b> to display important software information and your unit ID.

## Updating the Software Using Garmin Connect

Before you can update the device software, you must pair the USB ANT Stick with your computer ([page 27](#)).

1. Connect the USB ANT Stick to your computer.
2. Go to [www.garminconnect.com](http://www.garminconnect.com).  
If there is new software available, Garmin Connect alerts you to update the software.
3. Follow the on-screen instructions.
4. Keep your device in range (3 m) of the computer during the update process.

## Getting More Information

You can find more information about this product on the Garmin Web site.

- Go to [www.garmin.com/intosports](http://www.garmin.com/intosports).
- Go to [www.garmin.com/learningcenter](http://www.garmin.com/learningcenter).

- Go to <http://buy.garmin.com>, or contact your Garmin dealer for information about optional accessories and replacement parts.

## Contacting Garmin Product Support

You can contact Garmin Product Support if you have any questions about this product.

- In the USA, go to [www.garmin.com/support](http://www.garmin.com/support), or contact Garmin USA by phone at (913) 397.8200 or (800) 800.1020.
- In the UK, contact Garmin (Europe) Ltd. by phone at 0808 2380000.
- In Europe, go to [www.garmin.com/support](http://www.garmin.com/support) and click **Contact Support** for in-country support information, or contact Garmin (Europe) Ltd. by phone at +44 (0) 870.8501241.



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For the latest free software updates (excluding map data) throughout the life of your Garmin products, visit the Garmin Web site at [www.garmin.com](http://www.garmin.com).

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