

FORERUNNER® 610

OWNER'S MANUAL



GARMIN 

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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.

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.

The device is powered by a built-in, lithium-ion battery that you can charge using the charger included in the product box ([page 41](#)).

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.

Getting More Information

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

Keys

Each key has multiple functions.



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

④	☰	Select to show and hide the menu.
⑤	◀	Select to return to the previous page.

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 (page 40).
🏋️	Fitness equipment is active.

Touchscreen Tips

The Forerunner touchscreen is different than most mobile devices. The touchscreen is designed so you can operate it with your fingernail. The touchscreen is optimized to prevent accidental touches while you run.

NOTE: You must press or swipe firmly

in order to select items and change pages. You should practice using the touchscreen before you run.

- Tap the touchscreen to scroll through the pages ①.

TIP: You can also swipe your finger across the touchscreen.

- Swipe left to exit power save mode.
- Tap the touchscreen to confirm messages.
- Make each touchscreen selection or swipe a separate action.

Changing Data Fields

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

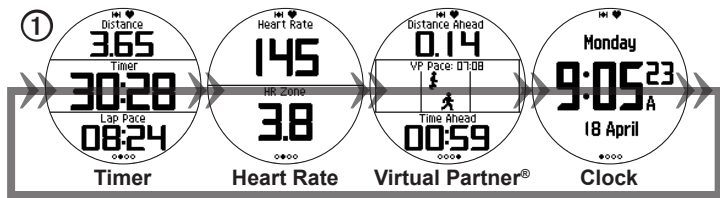
When you lift your finger, you are prompted to select a new data field (page 35).

Locating Satellite Signals





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

1. From the clock page, swipe left 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.



Menu Overview

 History	Activities
	Totals
	Options: showing pace or speed, start of the week, deleting activities, resetting totals, uploading an activity
 Training	Ready to Run
	Options: alerts, Auto Lap, Auto Pause, auto scroll
	Virtual Partner
	Virtual Racer
	Workouts: intervals, custom workouts
	Sport: running or cycling
 Setup	Training Pages: data fields
	Alarm
	Heart Rate Monitor: pairing, heart rate zones
	Foot Pod: pairing, speed source, calibration
	Bike Sensor: pairing, calibration, wheel size
	User Profile: gender, birth year, weight, height
	System: language, tones, display, data recording, GPS, backlight, time, units, data transfer, restore default settings
 Where To?	Where Am I?
	Back to Start
	Locations

Your Training

This section describes training features and settings for your device.

- Run basics (pages 7–8)
- Alerts (page 8)
- Auto Lap® (page 10)
- Auto Pause® (page 11)
- Auto scroll (page 11)
- Virtual Partner® (page 12)
- Virtual Racer™ (page 12)
- Interval workouts (page 13)
- Custom workouts (page 15)
- Bike training (page 17)

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 (page 21).

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 35).


2. 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 to appear on the training page.

For a complete list of the available data fields and descriptions, see [page 35](#).


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 32](#).


Setting Time, Distance, and Calorie Alerts

1. Select  > **Training** > **Options** > **Alerts**.
2. Select **Time**, **Distance**, or **Calories**.
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, foot pod, or GSC™ 10, you can set up advanced alerts for heart rate and cadence.

1. Select  > **Training > 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, see [page 19](#).
 - 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. Auto Lap functions correctly while you are using the run/walk alerts.

1. Select  > **Training > 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

The default Auto Lap setting is **By Distance**, 1 mile or 1 kilometer.

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


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.

1. Select  > **Training** > **Options** > **Auto Lap**.
2. Select **Auto Lap** > **By Distance**.
3. Select **Lap At**, and enter a distance.

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** > **Options** > **Auto Lap**.
2. Select **Auto Lap** > **By Position** > **Lap At**.
3. 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**.
2. 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**.

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** > **Options** > **Auto Pause** > **Auto Pause**.

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** > **Options** > **Auto Scroll** > **Auto Scroll**.
2. Select **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** > **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** (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. You can race against your own activity or one transferred from your computer (page 13). 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 create a race, you must have at least one saved activity.

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

4. Select the race.
5. Select **Do Race**.

Virtual Racer Options

Select  > **Training** > **Virtual Racer**, and select a race.


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

Racing Against an Activity From the Web

You must have a Garmin Connect account ([page 28](#)).

Before you can wirelessly send an activity to your device, you must pair the Forerunner with your computer using the USB ANT Stick™ ([page 28](#)).

1. Pair the device to your computer.
2. Go to www.garminconnect.com, and find an activity.

3. Click **Send to Device**.
4. On the device, select  > **Training** > **Virtual Racer**.
5. Select the race.
6. Select **Do 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. Open intervals can be used for track workouts when you are running a known distance but want to keep track of how many intervals you have completed.

Creating an Interval Workout

1. Select **≡** > **Training** > **Workouts** > **Intervals**.
2. Select **Edit Workout**.
3. Select **Type**, and select **Time**, **Distance**, or **Open**.
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.
8. If necessary, select **Warmup** > **Yes** to add an open-ended warmup to your workout.
9. If necessary, select **Cooldown** > **Yes** to add an open-ended cooldown to your workout.

Starting an Interval Workout

1. Select **≡** > **Training** > **Workouts** > **Intervals** > **Do Workout**.
2. Select **START**.
If your interval workout has a warm up, you must select **LAP** to begin the first interval.
3. 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.
- 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 Connect, and transfer them to the Forerunner. However, you can also create and save a custom workout directly on your Forerunner.

You can also schedule custom workouts using Garmin Connect. You can plan workouts in advance and store them 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 Step** > **Yes**.

During a rest step, 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 > Duration**.
2. Select an option:
 - Select **Repeat** to repeat a step one or more times.


For example, you can repeat a 1-mile step 4 times.

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

For example, you can repeat a 5-minute step for thirty minutes or until you reach heart rate zone 5.

3. Select **Back to Step**, and select a step to repeat.

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.
- At any time, select **STOP** to stop the timer.

Deleting a Custom Workout

1. Select  > **Training** > **Workouts** > **Custom**.
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 Forerunner with your computer using the USB ANT Stick ([page 28](#)).

1. Connect the USB ANT Stick to your computer.
2. Go to www.garminconnect.com/start, and find an activity.
3. Follow the on-screen instructions.

Bike Training Options

Many of the training features of the Forerunner can be applied to cycling. For the best results, you should customize the cycling settings.

Changing Your Sport to Cycling

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 8–11](#)).

Training With a Bike Sensor

For information about the GSC™ 10, see [page 23](#).

ANT+ Sensors

The Forerunner is compatible with these ANT+ accessories.





- Heart rate monitor (page 19)
- Foot pod (page 21)
- GSC 10 (page 23)
- Weight Scale (page 23)
- Fitness Equipment (page 24)



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** > **Based On**.
2. 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 25](#)) 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 9](#))
- Heart rate zone calculations ([page 25](#))
- Heart rate data fields ([page 35](#))
- Heart rate troubleshooting ([page 26](#))

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 18](#)).

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 outdoors, you can set the Forerunner to use foot pod data to calculate pace rather than using GPS.


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

About Foot Pod Calibration

Calibrating your foot pod is optional and can improve accuracy. There are three ways to adjust the calibration: distance, GPS, and manual.


Calibrating Your Foot Pod by Distance

For best results, the foot pod should be calibrated using the inside lane of a regulation track. A regulation track (2 laps = 800 m) is more accurate than a treadmill.

1. Select  > **Setup** > **Foot Pod** > **Calibrate** > **Distance**.
2. Select a distance.
3. Select **START** to begin recording.
4. Run or walk the distance.
5. Select **STOP**.

Calibrating Your Foot Pod by GPS


You must have GPS signals to calibrate the foot pod using GPS.

1. Select  > **Setup** > **Foot Pod** > **Calibrate** > **GPS**.
2. Select **START** to begin recording.
3. Run or walk approximately 1000 m.

The Forerunner informs you that you have traveled far enough.

Calibrating Your Foot Pod Manually

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 m / 1580 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 the Bike Sensor

Before you customize the bike sensor options, you must change your sport to cycling ([page 17](#)).

Before you can calibrate the 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 bike sensor, 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 9](#))
- Bike training ([page 17](#))
- Cadence data fields ([page 35](#))

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.

About Lifetime Athletes

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

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 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 (www.garmin.com/intosports).
I changed the battery in my accessory.	You must pair the sensor to your Forerunner again (page 18).
The heart rate data is inaccurate or erratic.	<ul style="list-style-type: none">• Make sure that the heart rate monitor is snug against your body.• Warm up for 5–10 minutes.• Reapply moisture to the electrodes. Use water, saliva, or electrode gel.• Clean the electrodes. Dirt and sweat residue on the electrodes can interfere with heart rate signals.• 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.• 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.

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.
3. Select an activity.

4. Scroll to the bottom of the page, and select **View Laps**.
5. Swipe up or down to scroll through laps.

Viewing Pace or Speed in History

1. Select  > **History** > **Options**.
2. Select **Running** or **Cycling**, depending on what sport you are using.
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. Scroll to the bottom of the page, and select **Delete** > **Yes**.

Deleting All Activities

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

Using Garmin Connect

Garmin Connect is web-based software for storing and analyzing your data.

1. Go to www.garminconnect.com/start.
2. Follow the on-screen instructions.

Sending History to Your Computer

1. Plug the USB ANT Stick into a USB port on your computer.
The USB ANT Stick drivers automatically install the Garmin ANT Agent. You can download the USB ANT Agent if the drivers do not automatically install. Go to www.garminconnect.com/start.
2. Bring your device within range (3 m) of your computer.
3. Select **Yes**.
4. Follow the on-screen instructions.

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

Locations

Viewing and Saving Your Current Location

Before you can view and save your location, you must locate satellite signals ([page 5](#)).


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**.
3. If necessary, select **Edit** to edit the properties.

Editing Locations


1. Select  > **Where To?** > **Locations**.
2. Select a location.

3. Select **View Location** > **Edit**.
4. Select an attribute.

For example, select **Edit 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**.

The compass page appears. The Forerunner navigates you back to the starting point of your run.

Stopping the Navigation

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

GPS Settings

Turning Off GPS

Select  > **Setup** > **System** > **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. For more information, go to www.garmin.com/aboutGPS.

Select  > **Setup** > **System** > **GPS** > **Satellites**.

Settings

System 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.
- **Data Recording**—controls how the device records activity data.
 - **Smart**—records key points where you change direction, speed, or heart rate.

- **Every Second**—records points every second. It creates a very detailed record of your activity; however, it greatly increases the size of the activity.

- **GPS**—[page 31](#).
- **Backlight**—[page 41](#).

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.


Time Settings

Setting the Time Manually

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

1. Select  > **Setup** > **System** > **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.

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, and height.

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

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.

About Training Effect

Training effect measures the impact of an activity on your aerobic fitness. Training effect accumulates during the activity. As the activity progresses successfully, the training effect value increases, telling you how the activity has improved your fitness. Training

effect is determined by your user profile information, heart rate, duration, and intensity of your activity.

It is important to know that your training effect numbers (1.0–5.0) may seem abnormally high during your first few runs. It takes several activities for the device to learn your aerobic fitness.



Training Effect	Description
1.0–1.9	Helps recovery (short activities). Improves endurance with longer activities (more than 40 minutes).
2.0–2.9	Maintains your aerobic fitness.
3.0–3.9	Improves your aerobic fitness if repeated as part of your weekly training program.
4.0–4.9	Highly improves your aerobic fitness if repeated 1–2 times per week with adequate recovery time.

5.0	Causes temporary overload with high improvement. Train up to this number with extreme care. Requires additional recovery days.
-----	--

Training effect technology is provided and supported by Firstbeat Technologies Ltd. For more information, go to www.firstbeattechnologies.com.

Customizing the Training Pages

You can customize the data fields on four training pages.

1. Select  > **Setup** > **Training Pages**.
2. Select a training page.
3. Select .
4. Change the number of data fields you want to see on the page.
5. Select **Enabled**.

6. Select ◀.
7. Select a data field to change it.
8. Select a category and a data field.

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

Data Field	Description
Calories	Amount of total calories burned.
Calories - Fat	Amount of fat calories burned. Requires a New Leaf® assessment.
Calories to Go	During a 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.

Data Field	Description
GPS Accuracy *	The margin of error for your exact location. For example, your GPS location is accurate to within +/- 12 feet.
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 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).

Data Field	Description
HR – %Max. **	Percentage of maximum heart rate.
HR – Average **	Average heart rate for the duration of your current activity.
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.


Data Field	Description
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.

Data Field	Description
Pace Zone	Current range of pace. Zones can be set in Garmin Connect.
Reps to Go	During a 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. Zones can be set in Garmin Connect.
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. For example, if you run 10 minutes, then stop the timer for 5 minutes, then start the timer again and run for 20 minutes, your elapsed time is 35 minutes.
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.

Data Field	Description
Training Effect (TE) **	Current impact (1.0-5.0) on your aerobic fitness (page 33).

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	Page 40
Operating temperature range	From -4°F to 140°F (from -20°C to 60°C)

Forerunner Specifications	
Radio frequency/protocol	2.4 GHz ANT+ wireless communications protocol
Compatible accessories	ANT+ wireless technology works with compatible heart rate monitor, foot pod, GSC 10, weight scale, and fitness equipment.

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 (page 42)
Battery life	Approximately 4.5 years (1 hour per day)
Operating temperature	From 23°F to 122°F (from -5°C to 50°C) NOTE: In cold conditions, wear appropriate clothing to keep the heart rate monitor near your body temperature.

Heart Rate Monitor Specifications	
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 left 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**.

Adjusting the Backlight Timeout

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

Charging the Forerunner



The charging cradle contains a magnet. Under certain circumstances, magnets may cause interference with some medical devices, including pacemakers and insulin pumps. Keep the charging

cradle away from such medical devices.

NOTICE

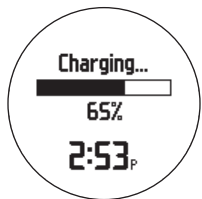
The charging cradle contains a magnet. Under certain circumstances, magnets may cause damage to some electronic devices, including hard drives in laptop computers. Use caution when the charging cradle is near electronic devices.

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.

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

NOTICE

You must unsnap the module before cleaning the strap.

A buildup of sweat and salt on the strap can decrease the ability of the heart rate monitor to report accurate data.

- Go to www.garmin.com/HRMcare for detailed washing instructions.
- Rinse the strap after every use.
- Wash the strap after every seven uses. The method of cleaning is determined by the symbols printed on the strap.

Machine wash	
Hand wash	

- Do not put the strap in a dryer.
- To prolong the life of your heart rate monitor, unsnap the module when not in use.





Updating the Software Using Garmin Connect

Before you can update the device software, you must pair the USB ANT Stick with your computer ([page 28](#)).

1. Connect the USB ANT Stick to your computer.
2. Go to 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.

Troubleshooting

Problem	Solution
The keys do not respond. How do I reset the device?	<ol style="list-style-type: none"> 1. Hold POWER until the screen goes blank. 2. Hold POWER until the screen turns on. <p>NOTE: This does not erase any of your data or settings.</p>
I want to clear all the user data from my device.	<p>NOTE: This deletes all user-entered information, but it does not delete your history.</p> <ol style="list-style-type: none"> 1. Turn off the device. 2. While holding LAP, turn the device on. 3. Select Yes.
How do I reset the device to the original factory settings?	Select  > Setup > System > Restore Defaults > Yes .
My device does not locate satellite signals.	<ol style="list-style-type: none"> 1. Take your device out of parking garages and away from tall buildings and trees. 2. Remain stationary for several minutes.
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  > Setup > System > About to display important software information and your unit ID.
How do I quickly change sports?	With no time on the timer, select RESET .
How do I get a New Leaf assessment?	Go to www.newleaffitness.com . Some gyms and health centers can provide an assessment.

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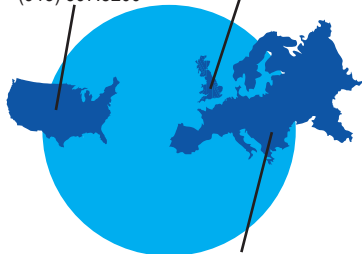
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