# Table of Contents

**Introduction** ................................................................. 1
**Getting Started** ............................................................ 1
  **Keys** ........................................................................... 1
**Status Icons** ................................................................. 1
**Going for a Run** ............................................................. 1
**Using Garmin Connect** .................................................. 1
  **Garmin Connect** .......................................................... 1
**Bluetooth Connected Features** ........................................ 2
**Charging the Device** ..................................................... 2

**Training** .......................................................................... 2

  **Workouts** ..................................................................... 2
    **Following a Workout From the Web** ................................ 2
    **Starting a Workout** .................................................... 2
    **About the Training Calendar** ....................................... 2

  **Interval Workouts** ..................................................... 3
    **Creating an Interval Workout** ...................................... 3
    **Starting an Interval Workout** ...................................... 3
    **Stopping an Interval Workout** ..................................... 3

**Personal Records** .......................................................... 3
  **Viewing Your Personal Records** .................................... 3
  **Clearing a Personal Record** ........................................... 3
  **Restoring a Personal Record** ......................................... 3
  **Clearing All Personal Records** ....................................... 3

**ANT+® Sensors** .............................................................. 3
  **Putting On the Heart Rate Monitor** ................................. 3
  **Setting Your Heart Rate Zones** ...................................... 3
  **Tips for Erratic Heart Rate Data** .................................... 4
  **Pairing Your ANT+ Sensors** ........................................... 4
  **Foot Pod** ....................................................................... 4
    **Going for a Run Using a Foot Pod** ................................ 4
    **Foot Pod Calibration** .................................................. 4

**History** ........................................................................... 4
  **Viewing History** .......................................................... 4
  **Viewing Data Totals** ..................................................... 4
  **Deleting History** ........................................................... 4
  **Data Management** ....................................................... 5
    **Deleting Files** ........................................................... 5
    **Disconnecting the USB Cable** ..................................... 5

**Customizing Your Device** ............................................... 5
  **Setting Up Your User Profile** ......................................... 5
  **Activity Settings** .......................................................... 5
    **Customizing the Data Screens** ..................................... 5
    **Alerts** ........................................................................ 5
    **Using Auto Pause®** ..................................................... 5
    **Marking Laps by Distance** ......................................... 5
    **Using Auto Scroll** ....................................................... 5
    **Timeout Settings** ........................................................ 5

  **System Settings** ........................................................... 5
    **Changing the Device Language** .................................... 6
    **Time Settings** ............................................................. 6
    **Backlight Settings** ...................................................... 6
    **Setting the Device Sounds** .......................................... 6
    **Changing the Units of Measure** ................................... 6
    **Changing the Theme Color** ......................................... 6
    **Training Indoors** ......................................................... 6
    **Format Settings** .......................................................... 6

**Device Information** ....................................................... 6
  **Specifications** .............................................................. 6
    **Forerunner Specifications** ............................................ 6
    **Heart Rate Monitor Specifications** ................................ 6
  **Device Care** ............................................................... 6
    **Cleaning the Device** ................................................... 6

**Troubleshooting** ............................................................ 7
  **Support and Updates** .................................................... 7
  **Getting More Information** ........................................... 7
  **Resetting the Device** ................................................... 7
  **Clearing User Data** ..................................................... 7
  **Restoring All Default Settings** ....................................... 7
  **Viewing Device Information** ......................................... 7
  **Updating the Software** .................................................. 7
  **Maximizing Battery Life** .............................................. 7
  **Switching to Watch Mode** ............................................ 7
  **Turning Off the Device** ................................................ 8

**Appendix** ........................................................................ 8
  **Heart Rate Zone Calculations** ......................................... 8
  **Data Fields** .................................................................... 8
  **Software License Agreement** ......................................... 8

**Index** ............................................................................. 9
Introduction

WARNING
See the Important Safety and Product Information guide in the product box for product warnings and other important information.

Always consult your physician before you begin or modify any exercise program.

Getting Started
When using your device for the first time, you should complete these tasks to set up the device and learn about the basic features.

1 Charge the device (Charging the Device, page 2).
2 Put on the optional heart rate monitor (Putting On the Heart Rate Monitor, page 3).
3 Go for a run (Going for a Run, page 1).
4 Upload your run to Garmin Connect™ (Using Garmin Connect, page 1).
5 Get more information (Getting More Information, page 7).

Keys

<table>
<thead>
<tr>
<th>Item</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image1" alt="Icon" /></td>
<td>Select to turn the backlight on and off. Hold to turn the device on and off.</td>
</tr>
<tr>
<td>2</td>
<td><img src="image2" alt="Icon" /></td>
<td>Select to unlock the device. Select to start and stop the timer. Select to choose an option or to acknowledge a message.</td>
</tr>
<tr>
<td>3</td>
<td><img src="image3" alt="Icon" /></td>
<td>Select to mark a new lap. Select to return to the previous screen.</td>
</tr>
<tr>
<td>4</td>
<td><img src="image4" alt="Icon" /></td>
<td>Select to scroll through the data screens, options, and settings. Hold to scroll quickly.</td>
</tr>
</tbody>
</table>

Status Icons

Icons appear at the top of the home screen. A flashing icon means the device is searching for a signal. A solid icon means the signal was found or the sensor is connected.

- ![Icon](image5) GPS status
- ![Icon](image6) Bluetooth® technology status
- ![Icon](image7) Heart rate status
- ![Icon](image8) Foot pod status

Going for a Run
The device comes partially charged. You may need to charge the device (Charging the Device, page 2) before going for a run.

1 Hold ø to turn on the device.
2 From the time of day screen, select any key (except ø), and select ø to unlock the device.
3 Go outside, and wait while the device locates satellites. It may take a few minutes to locate satellite signals. The satellite bars turn green, and the timer screen appears.

4 Select ø to start the timer.
5 Go for a run.
6 After you complete your run, select ø to stop the timer.
7 Select an option:
   - Select Resume to restart the timer.
   - Select Save to save the run and reset the timer. A summary appears.

Using Garmin Connect
You can upload all of your activity data to Garmin Connect for comprehensive analysis. With Garmin Connect, you can view a map of your activity, and share your activities with friends.

1 Connect the device to your computer using the USB cable.
2 Go to www.garminconnect.com/start.
3 Follow the on-screen instructions.

Garmin Connect
You can connect with your friends on Garmin Connect. Garmin Connect gives you the tools to track, analyze, share, and encourage each other. Record the events of your active lifestyle including runs, walks, rides, swims, hikes, triathlons, and more. To sign up for a free account, go to www.garminconnect.com/start.

Store your activities: After you complete and save an activity with your device, you can upload that activity to Garmin Connect and keep it as long as you want.

Analyze your data: You can view more detailed information about your activity, including time, distance, elevation, heart rate, calories burned, cadence, VO2 max., running dynamics, an overhead map view, pace and speed charts, and customizable reports.
Plan your training: You can choose a fitness goal and load one of the day-by-day training plans.

Share your activities: You can connect with friends to follow each other’s activities or post links to your activities on your favorite social networking sites.

Bluetooth Connected Features
The Forerunner device has several Bluetooth connected features for your compatible smartphone using the Garmin Connect Mobile app.

Activity uploads: Automatically sends your activity to the Garmin Connect Mobile app as soon as you finish recording the activity.

LiveTrack: Allows friends and family to follow your races and training activities in real time. You can invite followers using email or social media, allowing them to view your live data on a Garmin Connect tracking page.

Social media interactions: Allows you to post an update to your favorite social media website when you upload an activity to the Garmin Connect Mobile app.

Workout downloads: Allows you to browse for workouts in the Garmin Connect Mobile app and wirelessly send them to your device.

Pairing Your Smartphone with Your Forerunner
1 Go to www.garmin.com/intosports/apps, and download the Garmin Connect Mobile application to your smartphone.
2 Bring your smartphone within 33 ft. (10 m) of your Forerunner.
3 From the Forerunner home screen, select Menu > Settings > Bluetooth > Pair Mobile Device.
4 Open the Garmin Connect Mobile application, and follow the on-screen instructions to connect a device.
   The instructions are provided during the initial setup or by selecting ≡ > My Device.

Turning Off Bluetooth Wireless Technology
• From the Forerunner home screen, select Menu > Settings > Bluetooth > Status > Off.
• Refer to the owner’s manual for your mobile device to turn off Bluetooth wireless technology.

Charging the Device

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

NOTICE
To prevent corrosion, thoroughly clean and dry the contacts and the surrounding area before charging or connecting to a computer. Refer to the cleaning instructions in the appendix.

1 Plug the USB cable into a USB port on your computer.

2 Align the charger posts with the contacts on the back of the device, and press the charger 1 until it clicks.

3 Charge the device completely.

Training

Workouts
You can create custom workouts that include goals for each workout step and for varied distances, times, and calories. You can create workouts using Garmin Connect or select a training plan that has built-in workouts from Garmin Connect, and transfer them to your device.

You can schedule workouts using Garmin Connect. You can plan workouts in advance and store them on your device.

Following a Workout From the Web
Before you can download a workout from Garmin Connect, you must have a Garmin Connect account (Garmin Connect, page 1).
1 Connect the device to your computer.
2 Go to www.garminconnect.com/workouts.
3 Create and save a new workout.
4 Select Send to Device, and follow the on-screen instructions.
5 Disconnect the device.

Starting a Workout
Before you can start a workout, you must download a workout from Garmin Connect.
1 Select Training > My Workouts.
2 Select a workout.
3 Select Do Workout.
After you begin a workout, the device displays each step of the workout, the target (if any), and current workout data.

About the Training Calendar
The training calendar on your device is an extension of the training calendar or schedule you set up in Garmin Connect. After you have added a few workouts to the Garmin Connect calendar, you can send them to your device. All scheduled workouts sent to the device appear in the training calendar list by date. When you select a day in the training calendar, you can view or do the workout. The scheduled workout stays on your device whether you complete it or skip it. When you send scheduled workouts from Garmin Connect, they overwrite the existing training calendar.

Using Garmin Connect Training Plans
Before you can download a training plan from Garmin Connect, you must have a Garmin Connect account (Garmin Connect, page 1).

You can browse Garmin Connect for a training plan, schedule the workouts, and download the plan to your device.
1 Connect the device to your computer.
2 Go to www.garminconnect.com.
Starting an Interval Workout

1. Set your heart rate monitor to a resting heart rate if you have one.
2. Select Menu > Records.
3. Select a record to restore.
4. Select Previous > Yes.
   NOTE: This does not delete any saved activities.

Clearing All Personal Records

Select Menu > Records > Clear All Records > Yes.
NOTE: This does not delete any saved activities.

ANT+® Sensors

Your device can be used with wireless ANT+ sensors. For more information about compatibility and purchasing optional sensors, go to http://buy.garmin.com.

Putting On the Heart Rate Monitor

NOTE: If you do not have a heart rate monitor, you can skip this task.

You should wear the heart rate monitor directly on your skin, just below your sternum. It should be snug enough to stay in place during your activity.

1. Snap the heart rate monitor module onto the strap.
2. Wet the electrodes and the contact patches on the back of the strap to create a strong connection between your chest and the transmitter.
3. Wrap the strap around your chest, and connect the strap hook to the loop.
   NOTE: The care tag should not fold over.

The Garmin logos on the module and the strap should be right-side up.

4. Bring the device within 3 m (10 ft.) of the heart rate monitor. After you put on the heart rate monitor, it is active and sending data.
   TIP: If the heart rate data is erratic or does not appear, see the troubleshooting tips www.garmin.com/HRMcare.

Setting Your Heart Rate Zones

The device uses your user profile information from the initial setup to determine your default heart rate zones. For the most accurate calorie data during your activity, set your maximum heart rate. You can also manually set each heart rate zone and enter your resting heart rate.

1. Select Menu > Settings > User Profile > Heart Rate Zones > Based On.
2 Select an option:
• Select BPM to view and edit the zones in beats per minute.
• Select %Max. HR 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 heart rate reserve (maximum heart rate minus resting heart rate).

3 Select Max. HR, and enter your maximum heart rate.
4 Select a zone, and enter a value for each heart rate zone.
5 Select Resting HR, and enter your resting heart rate.

About Heart Rate Zones
Many athletes use 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 (Heart Rate Zone Calculations, page 8) 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. The default maximum heart rate is 220 minus your age.

Tips for Erratic Heart Rate Data
If the heart rate data is erratic or does not appear, you can try these tips.
• Reapply water to the electrodes and contact patches.
• Tighten the strap on your chest.
• Warm up for 5–10 minutes.
• Follow the care instructions www.garmin.com/HRMcare.
• Wear a cotton shirt or thoroughly wet both sides of the strap.
  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 that can interfere with your heart rate monitor.
  Sources of interference may include strong electromagnetic fields, some 2.4 GHz wireless sensors, high-voltage power lines, electric motors, ovens, microwave ovens, 2.4 GHz cordless phones, and wireless LAN access points.

Pairing Your ANT+ Sensors
Before you can pair, you must put on the heart rate monitor or install the sensor.

Pairing is the connecting of ANT+ wireless sensors, for example, connecting a heart rate monitor with your Garmin device.
1 Bring the device within range (3 m) of the sensor.
   NOTE: Stay 10 m away from other ANT+ sensors while pairing.
2 Select Menu > Settings > Sensors > Add Sensor.
3 Select a sensor.

When the sensor is paired with your device, a message appears. You can customize a data field to display sensor data.

Foot Pod
Your device is compatible with the foot pod. You can use the foot pod to record pace and distance instead of using GPS when you are training indoors or when your GPS signal is weak. The foot pod is on standby and ready to send data (like the heart rate monitor).

After 30 minutes of inactivity, the foot pod powers off to conserve the battery. When the battery is low, a message appears on your device. Approximately five hours of battery life remain.

Going for a Run Using a Foot Pod
Before you go for a run, you must pair the foot pod with your device (Pairing Your ANT+ Sensors, page 4).
You can run indoors using a foot pod to record pace, distance, and cadence. You can also run outdoors using a foot pod to record cadence data with your GPS pace and distance.
1 Install your foot pod according to the accessory instructions.
2 If necessary, turn off GPS (Training Indoors, page 6).
3 Select ⌚ to start the timer.
4 Go for a run.
5 After you complete your run, select ⌚ to stop the timer.

Foot Pod Calibration
The foot pod is self-calibrating. The accuracy of the speed and distance data improves after a few outdoor runs using GPS.

History
History includes time, distance, calories, average pace or speed, lap data, and optional ANT+ sensor information.
NOTE: When the device memory is full, your oldest data is overwritten.

Viewing History
1 Select Menu > History > Activities.
2 Use △ and ▽ to view your saved activities.
3 Select an activity.
4 Select an option:
   • Select Details to view additional information about the activity.
   • Select Laps to select a lap and view additional information about each lap.
   • Select Delete to delete the selected activity.

Viewing Data Totals
You can view the accumulated distance and time data saved to your device.
1 Select Menu > History > Totals.
2 If necessary, select the activity type.
3 Select an option to view weekly or monthly totals.

Deleting History
1 Select Menu > History > Options.
2 Select an option:
   • Select Delete All Activities to delete all activities from the history.
   • Select Reset Totals to reset all distance and time totals.
   NOTE: This does not delete any saved activities.
Data Management
NOTE: The device is not compatible with Windows® 95, 98, Me, Windows NT®, and Mac® OS 10.3 and earlier.

Deleting Files
If you do not know the purpose of a file, do not delete it. Your device memory contains important system files that should not be deleted.

1. Open the Garmin drive or volume.
2. If necessary, open a folder or volume.
4. Press the Delete key on your keyboard.

Disconnecting the USB Cable
If your device is connected to your computer as a removable drive or volume, you must safely disconnect your device from your computer to avoid data loss. If your device is connected to your Windows computer as a portable device, it is not necessary to safely disconnect.

1. Complete an action:
   • For Windows computers, select the Safely Remove Hardware icon in the system tray, and select your device.
   • For Mac computers, drag the volume icon to the trash.
2. Disconnect the cable from your computer.

Customizing Your Device

Setting Up Your User Profile
You can update your gender, birth year, height, weight, and heart rate zone (Setting Your Heart Rate Zones, page 3) settings. The device uses this information to calculate accurate training data.

1. Select Menu > Settings > User Profile.
2. Select an option.

Activity Settings
These settings allow you to customize your device based on your training needs. For example, you can customize data screens and enable alerts and training features.

Customizing the Data Screens
You can customize data screens for your activity settings.

1. Select Menu > Settings > Activity Settings > Data Screens.
2. Select a screen.
3. If necessary, enable the data screen.
4. If necessary, select a data field.

Alerts
You can use alerts to train toward specific heart rate and pace goals and to set running and walking time intervals.

Setting Range Alerts
A range alert notifies you when the device is above or below a specified range of values. For example, if you have an optional heart rate monitor, you can set the device to alert you when your heart rate is below 90 beats per minute (bpm) and over 180 bpm.

1. Select Menu > Settings > Activity Settings > Alerts.
2. Select Heart Rate or Pace.
3. Turn on the alert.

4. Enter the minimum and maximum values.
Each time you exceed or drop below the specified range, a message appears. The device also beeps or vibrates if audible tones are turned on (Setting the Device Sounds, page 6).

Setting Walk Break Alerts
Some running programs use timed walking breaks at regular intervals. For example, during a long training run, you can set the device to alert you to run for 4 minutes, and then walk for 1 minute, and repeat. Auto Lap® functions correctly while you are using the run/walk alerts.

1. Select Menu > Settings > Activity Settings > Alerts > Run/Walk > Status > On.
2. Select Run Time, and enter a time.
3. Select Walk Time, and enter a time.
Each time you reach the alert value, a message appears. The device also beeps or vibrates if audible tones are turned on (Setting the Device Sounds, page 6).

Using Auto Pause®
You can use Auto Pause to pause the timer automatically when you stop moving or when your pace drops below a specified value. This feature is helpful if your activity includes stop lights or other places where you need to slow down or stop.

NOTE: History is not recorded while the timer is stopped or paused.

1. Select Menu > Settings > Activity Settings > Auto Pause.
2. Select an option:
   • Select When Stopped to pause the timer automatically when you stop moving.
   • Select Custom to pause the timer automatically when your pace drops below a specified value.

Marking Laps by Distance
You can use Auto Lap to mark a lap at a specific distance automatically. This feature is helpful for comparing your performance over different parts of a run (for example, every 1 mile or 5 kilometers).

1. Select Menu > Settings > Activity Settings > Auto Lap > Distance.
2. Select a distance.
Each time you complete a lap, a message appears that displays the time for that lap. The device also beeps or vibrates if audible tones are turned on (Setting the Device Sounds, page 6).

If necessary, you can customize the data screens to display additional lap data.

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

1. Select Menu > Settings > Activity Settings > Auto Scroll.
2. Select a display speed.

Timeout Settings
The timeout settings affect how long your device stays in training mode, for example, when you are waiting for a race to start. Select Menu > Settings > Activity Settings > Timeout.

Normal: Sets the device to enter low-power watch mode after 5 minutes of inactivity.
Extended: Sets the device to enter low-power watch mode after 25 minutes of inactivity. The extended mode can result in shorter battery life between charges.

System Settings
Select Menu > Settings > System.
• Language (Changing the Device Language, page 6)
• Time Settings (Time Settings, page 6)
• Backlight Settings (Backlight Settings, page 6)
• Sound Settings (Setting the Device Sounds, page 6)
• Unit Settings (Changing the Units of Measure, page 6)
• Theme Color (Changing the Theme Color, page 6)
• GPS (Training Indoors, page 6)
• Format Settings (Format Settings, page 6)

Changing the Device Language
Select Menu > Settings > System > Language.

Time Settings
Select Menu > Settings > System > Clock.
Time Format: Sets the device to show time in a 12-hour or a 24-hour format.
Set Time: Allows you to set the time manually or automatically based on your GPS position.

Setting the Time Manually
By default, the time is set automatically when the device acquires satellite signals.
1 Select Menu > Settings > System > Clock > Set Time > Manual.
2 Select Time, and enter the time of day.

Setting the Alarm
1 Select Menu > Settings > Alarm > Status > On.
2 Select Time, and enter a time.

Backlight Settings
Select Menu > Settings > System > Backlight.
Mode: Sets the backlight to turn on manually or for keys and alerts.
Timeout: Sets the length of time before the backlight turns off.

Setting the Device Sounds
The device sounds include key tones, alert tones, and vibrations.
Select Menu > Settings > System > Sounds.

Changing the Units of Measure
You can customize units of measure for distance, pace and speed, and weight.
1 Select Menu > Settings > System > Units.
2 Select a measurement type.
3 Select a unit of measure.

Changing the Theme Color
1 Select Menu > Settings > System > Theme Color.
2 Select a color.

Training Indoors
You can turn GPS off when you are training indoors or to save battery life.
Select Menu > Settings > System > GPS > Off.
TIP: You can also select Δ to turn off GPS.

When GPS is off, speed and distance are calculated using the accelerometer in the device. The accelerometer is self-calibrating. The accuracy of the speed and distance data improves after a few outdoor runs using GPS. The next time you turn on or unlock the device, it searches for satellite signals.

Format Settings
Select Menu > Settings > System > Format.
Running: Sets the device to display speed or pace.
Start of Week: Sets the first day of the week for your weekly history totals.

Device Information

Specifications

Forerunner Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>Rechargeable, built-in lithium-ion battery</td>
</tr>
<tr>
<td>Battery life</td>
<td>Up to 6 weeks in watch mode, Up to 10 hours in GPS mode</td>
</tr>
<tr>
<td>Water rating</td>
<td>5 ATM¹</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>From -20º to 60ºC (from -4º to 140ºF)</td>
</tr>
<tr>
<td>Charging temperature range</td>
<td>From 0º to 45ºC (from 32º to 113ºF)</td>
</tr>
<tr>
<td>Radio frequency/protocol</td>
<td>2.4 GHz ANT+ wireless communications protocol</td>
</tr>
<tr>
<td>Bluetooth Smart wireless technology</td>
<td></td>
</tr>
</tbody>
</table>

Heart Rate Monitor Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>User-replaceable CR2032, 3 V</td>
</tr>
<tr>
<td>Battery life</td>
<td>Up to 4.5 yr. at 1 hr./day</td>
</tr>
<tr>
<td>Water resistance</td>
<td>3 ATM²</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>From -5º to 50ºC (from 23º to 122ºF)</td>
</tr>
<tr>
<td>Wireless frequency/protocol</td>
<td>2.4 GHz ANT+ wireless communications protocol</td>
</tr>
</tbody>
</table>

Device Care

**NOTICE**

Avoid extreme shock and harsh treatment, because it can degrade the life of the product.

Avoid pressing the keys under water.

Do not use a sharp object to clean the device.

Avoid chemical cleaners, solvents, and insect repellents that can damage plastic components and finishes.

Thoroughly rinse the device with fresh water after exposure to chlorine, salt water, sunscreen, cosmetics, alcohol, or other harsh chemicals. Prolonged exposure to these substances can damage the case.

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

Cleaning the Device

**NOTICE**

Even small amounts of sweat or moisture can cause corrosion of the electrical contacts when connected to a charger. Corrosion can prevent charging and data transfer.

1. Wipe the device using a cloth dampened with a mild detergent solution.
2. Wipe it dry.

After cleaning, allow the device to dry completely.

¹ The device withstands pressure equivalent to a depth of 50 m. For more information, go to www.garmin.com/waterrating.
² The device withstands pressure equivalent to a depth of 30 m. For more information, go to www.garmin.com/waterrating.
Caring for the Heart Rate Monitor

**NOTICE**
You must unsnap and remove the module before washing the strap.

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

- Rinse the strap after every use.
- Machine wash the strap after every seven uses.
- Do not put the strap in a dryer.
- When drying the strap, hang it up or lay it flat.
- To prolong the life of your heart rate monitor, unsnap the module when not in use.

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. Go to [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.
   - **NOTE:** Do not overtighten.

After you replace the heart rate monitor battery, you may need to pair it with the device again.

**Troubleshooting**

**Support and Updates**
Garmin Express™ provides easy access to these services for Garmin devices. Some services may not be available for your device.

- Product registration
- Product manuals
- Software updates
- Map, chart, or course updates
- Vehicles, voices, and other extras

**Getting More Information**

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

**Resetting the Device**
If the device stops responding, you may need to reset it. This does not erase any of your data or settings.

1. Hold  for 15 seconds.
   The device turns off.
2. Hold  for one second to turn on the device.

**Clearing User Data**
You can restore all of the device settings to the factory default values.

- **NOTE:** This deletes all user-entered information, but it does not delete your history.
1. Hold , and select Yes to turn off the device.
2. While holding , hold  to turn on the device.
3. Select Yes.

**Restoring All Default Settings**
You can reset all settings back to the factory default values.

- **NOTE:** This deletes all user-entered information and activity history.
1. While holding , hold  to turn on the device.
2. Select Yes.
3. Select Menu > Settings > System > Restore Defaults > Yes.

**Viewing Device Information**
You can view the unit ID, software version, GPS version, and software information.

1. Select Menu > Settings > System > About.

**Updating the Software**
Before you can update your device software, you must have a Garmin Connect account, and you must download the Garmin Express application.

1. Connect the device to your computer using the USB cable.
   When new software is available, the Garmin Express application sends it to your device.
2. Follow the on-screen instructions.
3. Do not disconnect your device from the computer while the Garmin Express application downloads the software.

   - **TIP:** If you are having trouble updating the software with the Garmin Express application, you may need to upload your activity history to the Garmin Connect application and delete your activity history from the device. This should provide sufficient memory space for the update.

**Maximizing Battery Life**

- Shorten the backlight timeout ([Backlight Settings, page 6](#)).
- Shorten the timeout to watch mode ([Time Settings, page 6](#)).
- Turn off the Bluetooth wireless feature ([Turning Off Bluetooth Wireless Technology, page 2](#)).

**Switching to Watch Mode**
You can put the device into a low-power watch mode that locks the device and maximizes battery life.

1. Select  until  appears.
   The device is in watch-only mode.
2. Select any key (except ), and select  to unlock the device.
Turning Off the Device
For long-term storage and to maximize battery life, you can turn off the device.

Hold 0, and select Yes to turn off the device.

Appendix

Heart Rate Zone Calculations

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

Data Fields
Average HR: The average heart rate for the current activity.
Average Pace: The average pace for the current activity.
Cadence: Running. The steps per minute (right and left).
Calories: The amount of total calories burned.
Distance: The distance traveled for the current track or activity.
Elevation: The altitude of your current location above or below sea level.
Heart Rate: Your heart rate in beats per minute (bpm).
HR Zone: The current range of your heart rate. The default zones are based on your user profile and maximum heart rate (220 minus your age).
Lap Distance: The distance traveled for the current lap.
Lap Pace: The average pace for the current lap.
Lap Time: The stopwatch time for the current lap.
Pace: The current pace.
Speed: The current rate of travel.
Timer: The stopwatch time for the current activity.

Software License Agreement
BY USING THE DEVICE, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Garmin Ltd. and its subsidiaries (“Garmin”) grant you a limited license to use the software embedded in this device (the “Software”) in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin and/or its third-party providers.

You acknowledge that the Software is the property of Garmin and/or its third-party providers and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software, for which source code is not provided, are valuable trade secrets of Garmin and/or its third-party providers and that the Software in source code form remains a valuable trade secret of Garmin and/or its third-party providers. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America or the export control laws of any other applicable country.
**Index**

<table>
<thead>
<tr>
<th>A</th>
<th>accessories 3, 7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>alarms 6</td>
</tr>
<tr>
<td></td>
<td>alerts 5</td>
</tr>
<tr>
<td></td>
<td>ANT+ sensors 3</td>
</tr>
<tr>
<td></td>
<td>pairing 4</td>
</tr>
<tr>
<td></td>
<td>applications 2</td>
</tr>
<tr>
<td></td>
<td>smartphone 2</td>
</tr>
<tr>
<td></td>
<td>Auto Lap 5</td>
</tr>
<tr>
<td></td>
<td>Auto Pause 5</td>
</tr>
<tr>
<td></td>
<td>Auto Scroll 5</td>
</tr>
<tr>
<td>B</td>
<td>backlight 1, 6</td>
</tr>
<tr>
<td></td>
<td>battery</td>
</tr>
<tr>
<td></td>
<td>charging 2</td>
</tr>
<tr>
<td></td>
<td>maximizing 2, 5, 7, 8</td>
</tr>
<tr>
<td></td>
<td>replacing 7</td>
</tr>
<tr>
<td></td>
<td>Bluetooth technology 1, 2</td>
</tr>
<tr>
<td>C</td>
<td>calendar 2</td>
</tr>
<tr>
<td></td>
<td>charging 2</td>
</tr>
<tr>
<td></td>
<td>cleaning the device 6, 7</td>
</tr>
<tr>
<td></td>
<td>clock 6</td>
</tr>
<tr>
<td></td>
<td>color screen 6</td>
</tr>
<tr>
<td></td>
<td>customizing the device 5</td>
</tr>
<tr>
<td>D</td>
<td>data</td>
</tr>
<tr>
<td></td>
<td>storing 1</td>
</tr>
<tr>
<td></td>
<td>transferring 1</td>
</tr>
<tr>
<td></td>
<td>data fields 1, 5, 8</td>
</tr>
<tr>
<td></td>
<td>deleting</td>
</tr>
<tr>
<td></td>
<td>all user data 5, 7</td>
</tr>
<tr>
<td></td>
<td>history 4</td>
</tr>
<tr>
<td></td>
<td>personal records 3</td>
</tr>
<tr>
<td>F</td>
<td>foot pod 4</td>
</tr>
<tr>
<td>G</td>
<td>Garmin Connect 2</td>
</tr>
<tr>
<td></td>
<td>storing data 1</td>
</tr>
<tr>
<td></td>
<td>Garmin Express</td>
</tr>
<tr>
<td></td>
<td>registering the device 7</td>
</tr>
<tr>
<td></td>
<td>updating software 7</td>
</tr>
<tr>
<td></td>
<td>GPS 1</td>
</tr>
<tr>
<td></td>
<td>stopping 6</td>
</tr>
<tr>
<td>H</td>
<td>heart rate 1</td>
</tr>
<tr>
<td></td>
<td>alerts 5</td>
</tr>
<tr>
<td></td>
<td>monitor 3, 4, 7</td>
</tr>
<tr>
<td></td>
<td>zones 3, 4, 8</td>
</tr>
<tr>
<td></td>
<td>history 4, 6</td>
</tr>
<tr>
<td></td>
<td>deleting 4</td>
</tr>
<tr>
<td></td>
<td>sending to computer 1</td>
</tr>
<tr>
<td>I</td>
<td>icons 1</td>
</tr>
<tr>
<td></td>
<td>indoor training 6</td>
</tr>
<tr>
<td></td>
<td>intervals, workouts 3</td>
</tr>
<tr>
<td>K</td>
<td>keys 1, 6</td>
</tr>
<tr>
<td>L</td>
<td>language 6</td>
</tr>
<tr>
<td></td>
<td>laps 1</td>
</tr>
<tr>
<td></td>
<td>locking, screen 7</td>
</tr>
<tr>
<td>M</td>
<td>maps, updating 7</td>
</tr>
<tr>
<td></td>
<td>menu 1</td>
</tr>
<tr>
<td>P</td>
<td>pace 5, 6</td>
</tr>
<tr>
<td></td>
<td>pairing, smartphone 2</td>
</tr>
<tr>
<td></td>
<td>pairing ANT+ sensors 4</td>
</tr>
<tr>
<td></td>
<td>personal records 3</td>
</tr>
<tr>
<td></td>
<td>deleting 3</td>
</tr>
<tr>
<td></td>
<td>power key 8</td>
</tr>
<tr>
<td></td>
<td>product registration 7</td>
</tr>
<tr>
<td></td>
<td>profiles, user 5</td>
</tr>
<tr>
<td>R</td>
<td>registering the device 7</td>
</tr>
<tr>
<td></td>
<td>replacing the battery 7</td>
</tr>
<tr>
<td></td>
<td>resetting the device 7</td>
</tr>
<tr>
<td>S</td>
<td>saving activities 1</td>
</tr>
<tr>
<td></td>
<td>screen 6</td>
</tr>
<tr>
<td></td>
<td>locking 7</td>
</tr>
<tr>
<td></td>
<td>settings 5–7</td>
</tr>
<tr>
<td></td>
<td>device 6</td>
</tr>
<tr>
<td></td>
<td>smartphone</td>
</tr>
<tr>
<td></td>
<td>applications 2</td>
</tr>
<tr>
<td></td>
<td>pairing 2</td>
</tr>
<tr>
<td></td>
<td>software</td>
</tr>
<tr>
<td></td>
<td>updating 7</td>
</tr>
<tr>
<td></td>
<td>version 7</td>
</tr>
<tr>
<td></td>
<td>software license agreement 8</td>
</tr>
<tr>
<td></td>
<td>specifications 6</td>
</tr>
<tr>
<td></td>
<td>speed 6</td>
</tr>
<tr>
<td></td>
<td>system settings 5</td>
</tr>
<tr>
<td>T</td>
<td>time 6</td>
</tr>
<tr>
<td></td>
<td>settings 6</td>
</tr>
<tr>
<td></td>
<td>time zones 6</td>
</tr>
<tr>
<td></td>
<td>timer 1, 4</td>
</tr>
<tr>
<td></td>
<td>tones 6</td>
</tr>
<tr>
<td></td>
<td>training 2, 3, 5</td>
</tr>
<tr>
<td></td>
<td>pages 1</td>
</tr>
<tr>
<td></td>
<td>plans 2</td>
</tr>
<tr>
<td></td>
<td>troubleshooting 4, 7</td>
</tr>
<tr>
<td>U</td>
<td>unit ID 7</td>
</tr>
<tr>
<td></td>
<td>units of measure 6</td>
</tr>
<tr>
<td></td>
<td>updates, software 7</td>
</tr>
<tr>
<td></td>
<td>USB 7</td>
</tr>
<tr>
<td></td>
<td>disconnecting 5</td>
</tr>
<tr>
<td></td>
<td>user data, deleting 5</td>
</tr>
<tr>
<td></td>
<td>user profile 5</td>
</tr>
<tr>
<td>V</td>
<td>vibration 6</td>
</tr>
<tr>
<td>W</td>
<td>walking intervals 5</td>
</tr>
<tr>
<td></td>
<td>watch mode 5, 7</td>
</tr>
<tr>
<td></td>
<td>water resistance 6</td>
</tr>
<tr>
<td></td>
<td>workouts 2</td>
</tr>
<tr>
<td></td>
<td>loading 2</td>
</tr>
<tr>
<td>Z</td>
<td>zones</td>
</tr>
<tr>
<td></td>
<td>heart rate 3</td>
</tr>
<tr>
<td></td>
<td>time 6</td>
</tr>
</tbody>
</table>