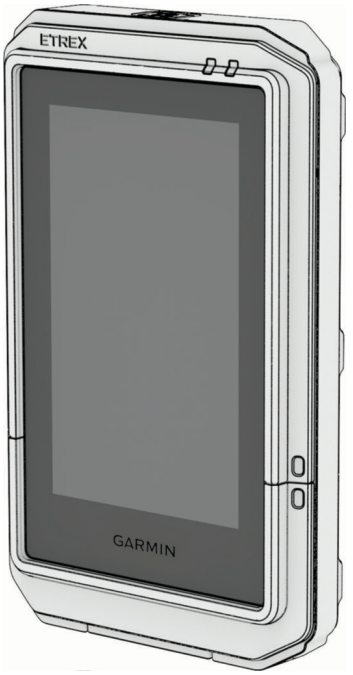
GARMIN®



eTrex® Touch

Owner's Manual

M/N: A04712

Table of Contents

Introduction

⚠ WARNING

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

Getting Started

1. Charge the device (*Charging the eTrex Touch Device*, page 2).
2. Turn on the device and select your language and current activity (*Device Overview*, page 3).
3. Pair your device with the Garmin Explore™ app on your phone (*Pairing Your Phone*, page 1).

   The app allows you to receive notifications, view weather forecasts, search for live geocache data, and more.
4. If necessary, create a passcode to secure your device (*Setting Your Device Passcode*, page 42).
5. Check for updates (*Product Updates*, page 44).

   For the best experience, you should keep the software on your device up to date. Software updates provide changes and improvements to privacy, security, and features.
6. Go outdoors to an open area and wait while the device locates satellites.
7. Start an activity (*Starting an Activity*, page 6).

Pairing Your Phone

To use the connected features of your eTrex Touch navigator, you should pair it with the Garmin Explore app.

1. During the initial setup on your navigator, scan the QR code with the camera on your phone to download and install the Garmin Explore app.

   NOTE: If you previously skipped the pairing process, you can select > **Settings** > **Connectivity** > **Pair Phone**.
2. Follow the on-screen instructions in the app to complete the pairing and setup process.

After the navigator and phone are paired, they connect automatically when they are turned on and within range.

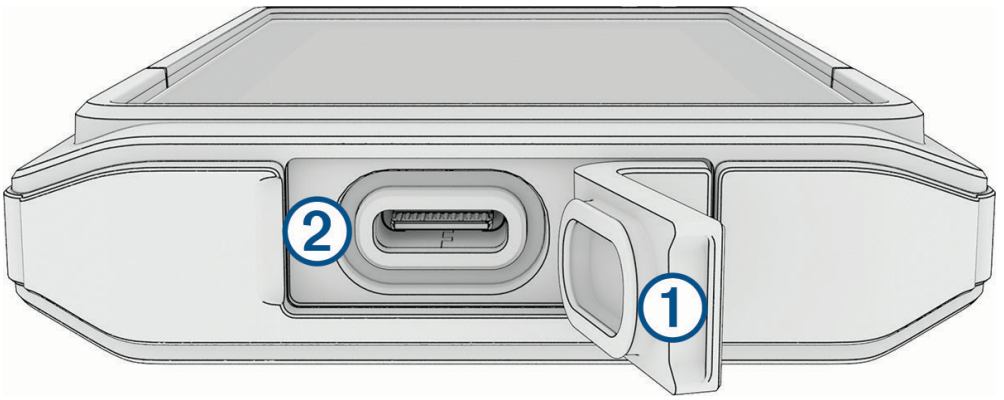
Charging the eTrex Touch Device

NOTICE

To prevent corrosion, thoroughly dry the USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

NOTE: The device does not charge when it is outside the approved temperature range (*Specifications*, page 47).

1 Lift the weather cap ①.



2 Plug the power cable into the charging port ② on the device.

3 Plug the other end of the power cable into a USB-C® computer port or AC adapter (5 V minimum output voltage).

The charging indicator appears in the status bar.

Saving Energy While Charging the Device

1 Connect your device to an external power source.

2 Hold the power button until the screen turns off.

The device goes into a low power, battery charging mode, and the battery gauge appears.

NOTE: If the charging source is not providing sufficient power, you can turn the device off while charging by holding the power button until ⏻ appears.

3 Charge the device completely.

Device Overview

① ⏻: Press to enter sleep mode or wake the device.

Hold to view the notification center and controls, and turn the device on and off (*Notification Center and Controls*, page 4).

② **Status bar**: Swipe down from the top of the page to view the notification center and controls.

③ **Home Page**: Displays an overview of your current activity, and includes dynamic areas such as a map and data fields based on your current activity type. Select each dynamic area to view additional information.

Swipe left on the home page to view additional tools, glances, and data fields. You can customize the home page and glances, as well as add and remove pages (*Customizing the Home Page and Glances*, page 4).

NOTE: Some glances require a Bluetooth® connection to a compatible phone (*Pairing Your Phone*, page 1).

Swipe right to return to the previous page.

④ : Select to open the apps list (*Apps*, page 8).

⑤ : Select to start, stop, save or discard, and view information about the current activity (*Starting an Activity*, page 6).

⑥ **USB Port**: Lift the weather cap to charge the device or connect it to a computer (*Charging the eTrex Touch Device*, page 2).

⑦ : Select to search for a location (*Searching for a Destination*, page 25), apps (*Searching for Apps*, page 24), or settings (*Searching for Settings*, page 44).

⑧ **Saved**: Select to open the Saved menu and navigate to saved waypoints, courses, or activities (*Saved Data*, page 22).

⑨ **Spine mount**: Mount the device on an optional accessory.

NOTE: Go to buy.garmin.com to purchase spine mount 2 optional accessories.

Customizing the Home Page and Glances

1. From the home page, tap and hold the screen.
2. Select **Edit Home Screen**.
3. Select an option:
   - To change a glance, tap a glance and select another glance from the list.

     TIP: From the home page, you can also tap and hold a glance, and select **Edit Glance** to change an individual glance.
   - To change a data field, tap a data field glance, select a data field category, and select the first and second data fields.
   - To change the order of the pages, select ❮ or ❯ at the bottom of the screen.
   - To make your favorite pages appear for all activity types, select **Pin**.
   - To add a new page, select **Add Page**, and swipe left to view the available default layout options or create a custom page.
   - To duplicate a page, select ☰ > **Duplicate Page**.
   - To remove a page, select ☰ > **Remove Page**.
   - To reset all pages to the default, select ☰ > **Reset All Pages**.

Customizing the Data Fields

1. Open the data screen you want to update.
2. Tap a data field to select it.
3. Select a data field category.
4. Select the first and second data fields (if applicable).

Notification Center and Controls

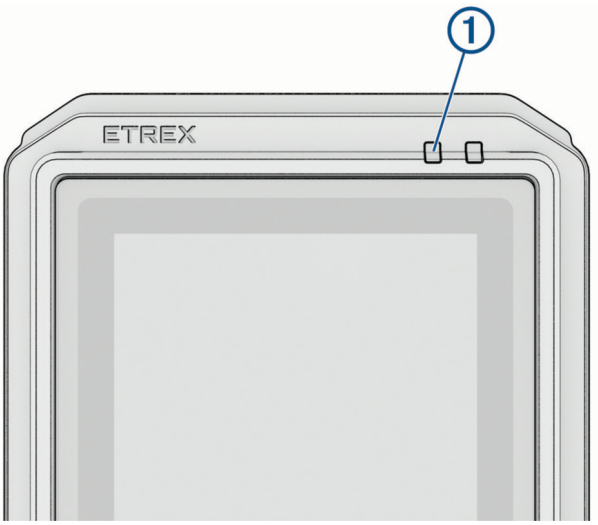
The notification center displays the current activity recording and notifications from your paired phone. Controls provide quick access to frequently used functions.

Hold ⏻ or swipe down from the top of the home page to open the notification center and controls.

Icon	Name	Description
	Auto Brightness	Select to automatically adjust the screen brightness based on the ambient light.
	Bluetooth	Select to disable Bluetooth technology and your connection to your paired phone.
	Brightness	Select the slider bar to adjust the screen brightness.
	Garmin Share	Select to open the Garmin Share app (*Garmin Share*, page 18).
	Lock Device	Select to lock the touchscreen to prevent inadvertent swipes. You can press the power button to unlock the touchscreen.
	Mark Waypoint	Select to save your current location as a waypoint (*Waypoints*, page 32).
	Power	Select to turn off the device.
	Settings	Select to open the settings menu (*Settings Menu*, page 37).
	Volume	Select to mute all device sounds.
	Wi-Fi	Select to disable Wi-Fi® communications.

Status LED

The status LED ① indicates the device status.



LED Activity	Status
Flashing green	The device is in expedition mode. The screen is turned off to maximize battery life.
Flashing red	The device is below 10-percent battery power.

Starting an Activity

You can use the Start Activity feature to select your activity options and hit the trail quickly. Your device remembers your selections and saves them for the next time you start an activity.

1. From the home screen, select **Start Activity**.
2. Select your activity options:
   - Select the activity name to change the activity type. Activity types include walking, hiking, hunting, and more.
   - Select **Navigation** to begin navigating to a destination (*Navigating to a Destination*, page 25).
3. Go outdoors to an open area and wait while the device locates satellites.
4. Select **Start**.

   The device begins recording your path as part of the activity.

Acquiring Satellite Signals

The device may need a clear view of the sky to acquire satellite signals. The time and date are set automatically based on the GPS position.

TIP: For more information about GPS, go to garmin.com/aboutGPS.

1. Go outdoors to an open area.
2. If necessary, turn on the device.
3. Wait while the device searches for satellites.

   It may take 30-60 seconds to locate satellite signals. in the status bar shows the satellite signal strength.

Customizing the Activities List

1. Select to open the apps list.
2. Select **Settings** > **Activities** > **Edit Activities**.
3. Select an option:
   - To add an activity, select **Add Activity**, and select one or more activities.
   - To delete an activity, select .
   - To change the location of an activity in the list, tap and hold an activity, and drag it to the new location.

Customizing the Current Activity

1. Select an option:
   - Hold or swipe down from the top of the home page to open the notification center and controls. Select **Activity Recording**.
   - From the home page, select the activity recording at the bottom of the screen.
2. Select to open the options menu.
3. Select an option:
   - To change the activity type, select **Change Activity**, and select an activity.
   - To change the recording settings, select **Data Recording** (*Data Recording Settings*, page 40).
   - To change the activity settings, select the activity settings (*Activity Settings*, page 40).

Navigating Using TracBack®

While recording an activity, you can navigate back to the beginning of your activity. This can be helpful when finding your way back to camp or the trail head.

1. Hold ⏻ or swipe down from the top of the home page to open the notification center and controls.
2. Select **Activity Recording**.
3. Select ■ > **TracBack** > **Navigate**.
4. Select your navigation options:
   - To change the activity type, select the activity name. Activity types include walking, hiking, hunting, and more.
   - To adjust the course to follow map data and recalculate as needed, enable the **Routing** toggle switch.
   - To set how the device routes from one point to the next, select **Advanced Settings** (*Routing Settings*, page 25).
5. Select **Go** > **Resume**.

   The map displays your route with a magenta line, start point, and end point.
6. Navigate using the map (*Navigating with the Map*, page 30) or compass (*Navigating with the Compass*, page 26).

Stopping the Current Activity

1. Select an option:
   - Hold ⏻ or swipe down from the top of the home page to open the notification center and controls. Select **Activity Recording**.
   - From the home page, select the activity recording at the bottom of the screen.
2. Select an option:
   - To pause the current activity recording, select ■.
   - To resume the current activity recording, select **Resume**.
   - To save the current activity recording, select ■ > **Save**.
   - To delete the current activity recording, select ■ > **Discard**.

Apps

Select ⠿ to open the apps list. You can change the order of the apps by tapping and holding an app, and dragging it to a new location.

TIP: You can search for an app by name (*Searching for Apps*, page 24).

Name	More Information
Altimeter	Select to view the altimeter (*Altimeter*, page 8).
Applied Ballistics	Select to view aiming solutions for long-range rifle shooting (*Applied Ballistics*®, page 9).
Area Calculation	Select to calculate the size of an area (*Calculating the Size of an Area*, page 17).
Compass	Select to view the compass (*Compass*, page 26).
Connect IQ	Select to view a list of installed Connect IQ™ apps (*Connect IQ Features*, page 36).
Garmin Share	Select to send or receive data with other Garmin® devices (*Garmin Share*, page 18).
Geocaching	Select to view a list of downloaded geocaches (*Geocaches*, page 19).
Map	Select to view the map (*Map*, page 29).
Map Manager	Select to view and manage downloaded maps. With an Outdoor Maps+ subscription, allows you to download additional maps (*Managing Maps*, page 29).
Mark Waypoint	Saves your current location as a waypoint (*Saving Your Current Location as a Waypoint*, page 32).
Photos	Select to view saved photos (*Viewing Photos*, page 17).
Satellite	Select to view your current GNSS satellite information (*Satellite Page*, page 22).
Saved	Select to view your saved waypoints, courses, activities, and collections (*Saved Data*, page 22).
Settings	Select to open the settings menu (*Settings Menu*, page 37).
Stopwatch	Select to use a timer, mark a lap, and time laps (*Using the Stopwatch*, page 23).
Up Ahead	Select to view information about upcoming locations on your course. You can use the Up Ahead app while navigating direct path courses to change the active point.
Weather	Select to view the current weather forecast and conditions (*Viewing a Weather Forecast*, page 23).

Altimeter

By default, the altimeter displays the elevation over the distance traveled. You can customize altimeter settings (*Altimeter Settings*, page 9). You can select any point on the plot to view details about that point.

Altimeter Settings

Select to open the apps list. Select **Altimeter**. Select to open the options menu.

Reset: Resets the altimeter data, including waypoint and trip data (*Resetting Data and Settings*, page 43).

Altimeter Setup > Altimeter: Disables the altimeter, so the device only uses GPS data for elevation measurements.

Altimeter Setup > Auto Calibration: Automatically calibrates the altimeter when you start an activity.

Altimeter Setup > Plot Type: Records elevation changes over a period of time or distance.

Altimeter Setup > Calibrate Altimeter: Manually calibrates the altimeter (*Calibrating the Altimeter*, page 9).

Adjust Zoom Ranges: Adjusts the zoom ranges shown on the altimeter page.

Restore Defaults: Restores the altimeter to factory default settings.

Calibrating the Altimeter

1. Go to a location where the elevation, sea level pressure, or GPS altitude is known.
2. Select to open the apps list.
3. Select **Altimeter**.
4. Select to open the options menu.
5. Select **Altimeter Setup** > **Calibrate Altimeter**.
6. Select **Method** to select the measurement to use in calibration.
7. Enter the measurement.
8. Select **Calibrate**.

Applied Ballistics®

⚠ WARNING

The Applied Ballistics feature is intended to provide accurate elevation and windage solutions based on gun and bullet profiles and measurements of current conditions only. Depending on your environment, conditions may change rapidly. Changes in environmental conditions, like wind gusts or downrange winds, may have an effect on the accuracy of your shot. Elevation and windage solutions are suggestions only based upon your input into the feature. Take readings often and carefully, and allow the readings to stabilize after significant changes in environmental conditions. Always allow a margin of safety for changing conditions and reading errors.

Always understand your target and what lies beyond your target before taking a shot. Failure to account for your shooting environment could cause property damage, injury, or death.

The Applied Ballistics feature offers customized aiming solutions for long-range shooting based on your rifle characteristics, bullet characteristics, and various environmental conditions. You can enter parameters including wind, temperature, humidity, range, and firing direction.

This feature provides the information you need to fire long-range projectiles, including elevation holdover, windage, and time of flight. It also includes custom drag models for your bullet type. Go to appliedballisticsllc.com for more details about this feature. See the *Applied Ballistics Glossary of Terms*, page 13 for descriptions of the terms and data fields.

NOTE: You may need to upgrade the ballistic solver in the Applied Ballistics Quantum™ app to unlock all Applied Ballistics features (*Applied Ballistics Quantum App*, page 9).

Applied Ballistics Quantum App

The Applied Ballistics Quantum app allows you to manage ballistic profiles on your eTrex Touch device, or upgrade your ballistic solver, if necessary. You can download the Applied Ballistics Quantum app from the app store on your phone.

Applied Ballistics Options

Select ⋮⋮⋮ to open the apps list. Select **Applied Ballistics**. Select ☰ to open the options menu.

Range Card: Displays data for various ranges based on user input parameters. You can change fields, edit the range increment, and set the base range (*Customizing the Range Card Fields*, page 10).

Target Card: Sets the long-range shooting conditions for your current target, including range, elevation, and windage (*Editing the Target*, page 10). You can change the selected target and customize conditions for up to 26 targets (*Changing the Target*, page 11).

Environment: Sets the atmospheric conditions for your current environment. You can enter custom values, use the pressure and latitude values from the internal sensor in the device, or values from a connected wireless sensor (*Environment*, page 11).

Profile: Sets the bullet, gun, and scope properties for your current profile (*Editing a Profile*, page 12). You can change the selected profile (*Selecting a Different Profile*, page 12) and add additional profiles (*Adding a Profile*, page 11).

Settings: Sets the units of measure, decimal place precision, target labels, and fire control options for windage and elevation.

Quickly Editing Shooting Conditions

You can edit the range, direction of fire, and wind information.

1. From the **Applied Ballistics** app, tap a field to select it and edit its value.
2. Set the **Range** value to the target distance.
3. Set the **Direction of Fire** value to your actual direction of fire (either manually or by using the compass).
4. Set the **Wind 1** value to the low wind speed.
5. Set the **Wind 2** value to the high wind speed.
6. Set the **Wind Direction** value to the direction the wind is coming from.

Range Card

Customizing the Range Card Fields

1. From the **Applied Ballistics** app, select ☰.
2. Select **Range Card**.
3. Tap a field to select it.
4. Select an option:
   - To edit the range increment, select **RNG** > **Range Increment**, and enter a value.
   - To set the base range, **RNG** > **Base Range**, and enter a value.
   - To customize other fields, select a field from the list.

Target Card

Adding a Target

You can add up to 26 targets.

1. From the **Applied Ballistics** app, select ☰.
2. Select **Target Card** > **Add Target**.

   The new target appears at the bottom of the list.

Editing the Target

1. From the **Applied Ballistics** app, select ☰.
2. Select **Target Card**.
3. Select a target.
4. Select an option to edit.

Changing the Target

1. From the **Applied Ballistics** app, select .
2. Select **Target Card**.
3. Select a target.
4. Select **Set as current**.

Deleting a Target

1. From the **Applied Ballistics** app, select .
2. Select **Target Card**.
3. Select an option:
   - To delete a single target, select a target, and select **Delete**.
   - To delete all targets, select , and select **Delete All**.

Environment

Editing the Environment

1. From the **Applied Ballistics** app, select .
2. Select **Environment**.
3. Select an option to edit.

Enabling Auto Update

You can use the auto update feature to update the latitude and pressure values automatically. When connected to a wireless sensor, such as a temperature sensor or weather meter, the other environment fields also update (*Pairing Your Wireless Sensors*, page 39). The values update every minute.

1. From the **Applied Ballistics** app, select .
2. Select **Environment** > **Auto Update** > **On**.

Profile

Adding a Profile

You can add a .pro file that contains profile information by creating it using the Applied Ballistics Quantum app and transferring the file to the AB folder on the device (*Transferring Files to Your Device Using a Computer*, page 46). You can also create a profile using your Garmin device.

1. From the **Applied Ballistics** app, select .
2. Select **Profile**.
3. Select an option:
   - To create a brand new profile, select **+ Profile**
   - To create a new profile based on an existing profile, select the profile, select **Copy**, and enter a name.

Editing a Profile

1. From the **Applied Ballistics** app, select .
2. Select **Profile**.
3. Select a profile.
4. If necessary, select **Rename**, and enter a name.
5. Select **Properties**.
6. Select an option:

   NOTE: Some options only appear when you enable the Advanced Settings option.

   - To enter the bullet properties, select **Bullet Data**, and select an option.

     TIP: You can select **Bullet Library** to automatically enter bullet properties from the Applied Ballistics bullet database. If you manually enter the bullet properties, you can find the information on the bullet manufacturer's website.
   - To enter the gun properties, select **Gun Data**, and select an option.
   - To enter the scope properties, select **Scope**, and select an option.
   - To calibrate the muzzle velocity to provide a more accurate solution in the supersonic range for your firearm, select **Calibrate Muzzle Velocity**, select an option, and select **Use**.
   - To calibrate the custom drag factor, select **Calibrate Custom Drag Factor**, select an option, and select **Use**.
   - To edit the muzzle velocity temperature table, select **MV Temp Table**, select , select **Edit**, and select a value to edit.

     NOTE: If necessary, you can select **Clear MV-Temp** to reset the muzzle velocity temperature table back to the default values.
   - To calibrate the drop scale factor to provide a more accurate solution at or beyond the transonic range for your firearm, select **Drop Scale Factor** > **Calibrate DSF**, select an option, and select **Use**.

     NOTE: Garmin recommends you calibrate the muzzle velocity prior to the drop scale factor. After you calibrate the drop scale factor, you can select **View DSF Table** to view the drop scale factor table. If necessary, you can select **Clear DSF Table** to reset the drop scale factor table to the default values.

Deleting a Profile

NOTE: You cannot delete your current profile.

1. From the **Applied Ballistics** app, select .
2. Select **Profile**.
3. Select a profile.
4. Select **Delete**.

Selecting a Different Profile

1. From the **Applied Ballistics** app, select .
2. Select **Profile**.
3. Select a profile.
4. Select **Set as current**.

Applied Ballistics Glossary of Terms

Quick Edit Fields

Direction of Fire: The direction of fire, with north at 0 degrees and east at 90 degrees. Input field.

Elevation: The vertical portion of the aiming solution, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Range: The distance to the target, displayed in yards or meters. Input field.

Wind 1: The wind speed used in the shooting solution, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). Input field.

Wind 2: An optional, additional wind speed used in the shooting solution, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). Input field.

TIP: You can use two wind speeds to calculate a windage solution that contains a high and low value. The actual windage to apply for the shot should fall in this range. Using both wind speed 1 and wind speed 2 is not an effective way to account for different wind speeds at different distances between you and the target.

Windage 1: The horizontal portion of the aiming solution based on the wind speed 1 and wind direction, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Windage 2: The horizontal portion of the aiming solution based on the wind speed 2 and wind direction, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Wind Direction: The direction from which the wind is coming. For example, a 9:00 wind blows from your left to your right. Input field.

Range Card Fields

Bullet Drop: The total drop the bullet experiences along its flight path, displayed in inches or centimeters.

Elevation: The vertical portion of the aiming solution, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

H. Cor. Effect: The horizontal Coriolis effect. The horizontal Coriolis effect is the amount of the windage solution attributed to the Coriolis effect. This is always calculated by the device, although the impact may be minimal if you are not shooting at extended range.

Lead: The horizontal correction needed to hit a target moving left or right at a given speed.

TIP: When you enter the speed of your target, the device factors the necessary windage required into the total windage value.

Remaining Energy: The remaining energy of the bullet at target impact, displayed in foot-pounds of force (ft. lbf) or joules (J).

Spin Drift: The amount of the windage solution attributed to the spin drift (gyroscopic drift). For example, in the northern hemisphere, a bullet shot out of a right-hand twist barrel will always deflect slightly to the right as it travels.

Time of Flight: The time of flight, which indicates the time required for a bullet to reach its target at a given range.

V. Cor. Effect: The vertical Coriolis effect. The vertical Coriolis effect is the amount of the elevation solution attributed to the Coriolis effect. This is always calculated by the device, although the impact may be minimal if you are not shooting at extended range.

Velocity: The estimated velocity of the bullet when it impacts the target.

Velocity Mach: The estimated velocity of the bullet when it impacts the target, displayed as a factor of mach speed.

Windage 1: The horizontal portion of the aiming solution based on the wind speed 1 and wind direction, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Windage 2: The horizontal portion of the aiming solution based on the wind speed 2 and wind direction, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Target Card Fields

Direction of Fire: The direction of fire, with north at 0 degrees and east at 90 degrees. Input field.

TIP: You can use the compass to set this value by pointing the top of the device toward the direction of fire. The current compass value appears in the Direction of Fire field. You can select ☰ to use this value.

Inclination: The angle of inclination of the shot. A negative value indicates a downhill shot. A positive values indicates an uphill shot. The shooting solution multiplies the vertical portion of the solution by the cosine of the inclination angle to calculate the adjusted solution for an uphill or downhill shot. Input field.

Range: The distance to the target, displayed in yards or meters. Input field.

Speed: The speed of a moving target, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). A negative value indicates a target moving left. A positive value indicates a target moving right. Input field.

Environment Fields

Direction: The direction from which the wind is coming. For example, a 9:00 wind blows from your left to your right. Input field.

Humidity: The percentage of moisture in the air. Input field.

Latitude: The horizontal location on the Earth's surface. Negative values are below the equator. Positive values are above the equator. This value is used to calculate the vertical and horizontal Coriolis drift. Input field.

TIP: You can select the Use Current Position option to use the GPS coordinates from your device.

NOTE: The Latitude is used only for calculating the Coriolis effect. If you are shooting at a target less than 1,000 yards away, this input field is optional.

Pressure: The ambient (station) pressure. Ambient pressure is not adjusted to represent sea level (barometric) pressure. Ambient pressure is required for the ballistics shooting solution. Input field.

TIP: You can manually enter this value, or you can select the Use Current Pressure option to use the pressure value from the internal sensor in the device.

Temperature: The temperature at your current location, displayed in Fahrenheit (F) or Celsius (C). Input field.

TIP: You can manually enter the temperature reading from a connected tempe™ sensor or other temperature source. This field does not automatically update when connected to a tempe sensor.

Wind Direction Mode: Sets the wind direction setting (Direction) relative to your direction of fire (Relative to DOF) or relative to true north (True Wind Dir).

NOTE: When you are engaging multiple targets at different DOFs, the True Wind Dir option is useful because you only have to adjust your DOF, and your wind direction remains the same.

Wind Speed 1: The wind speed used in the shooting solution, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). Input field.

Wind Speed 2: An optional, additional wind speed used in the shooting solution, displayed in miles per hour (mph), kilometers per hour (km/h), or meters per second (m/s). Input field.

TIP: You can use two wind speeds to calculate a windage solution that contains a high and low value. The actual windage to apply for the shot should fall in this range.

Profile Fields - Bullet Data

Ballistic Coefficient: The manufacturer's ballistic coefficient for your bullet. Input field.

Diameter: The bullet diameter, displayed in inches or centimeters. Input field.

NOTE: The diameter of the bullet may vary from the common name of the round. For example, a 300 Win Mag is actually .308 inches in diameter.

Length: The length of the bullet, displayed in inches or centimeters. Input field.

Model: The G1 or G7 standard projectile models for drag curve. Input field.

NOTE: Most long range rifle bullets are closer to the G7 standard.

Weight: The bullet weight, displayed in grains (gr) or grams (g). Input field.

Profile Fields - Gun Data

Muzzle Velocity: The speed of the bullet as it leaves the muzzle, displayed in feet per second (f/s) or meters per second (m/s). Input field.

NOTE: This field is required for accurate calculations by the shooting solution. If you calibrate the muzzle velocity, this field may be updated automatically for a more accurate firing solution.

Sight Height: The distance from the center axis of the rifle barrel to the center axis of the scope, displayed in inches or centimeters. Input field.

TIP: You can easily determine this value by measuring from the top of the bolt to the center of the windage turret, and adding half of the diameter of the bolt.

Twist Direction: The direction that the rifling of your barrel spirals. Most rifles have a right-handed twist. Input field.

Twist Rate: The distance it takes for the rifling of your barrel to make one full rotation, displayed in inches or centimeters. Rifle twist is often provided by the gun or barrel manufacturer. Input field.

Zero Range: The range at which the rifle was zeroed, displayed in yards or meters. Input field.

Profile Fields - Scope

Scope Units: The units of measure for your scope, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA). Input field.

Sight in Conditions: The environmental conditions while sighting in your gun. These are optional modifications recommended when sighting in your gun 300 yards and beyond. Toggle field.

SSF Elevation: A linear multiplier that accounts for vertical scaling. Not all rifle scopes track perfectly, so the ballistics solution requires a correction to scale according to a particular rifle scope. For example, if a turret is moved 10 mil but the impact is 9 mil, the sight scale is 0.9. Input field.

SSF Windage: A linear multiplier that accounts for horizontal scaling. Not all rifle scopes track perfectly, so the ballistics solution requires a correction to scale according to a particular rifle scope. For example, if a turret is moved 10 mil but the impact is 9 mil, the sight scale is 0.9. Input field.

Zero Height: An optional modification to impact elevation at zero range. This is often used when adding a suppressor or using a subsonic load. For example, if you add a suppressor and your bullet impacts the target 1 inch higher than expected, your Zero Height is 1 inch. You must set this to zero when you remove the suppressor. Input field.

Zero Humidity: The humidity while sighting in your gun. This is an optional modification recommended when sighting in your gun at 300 yards and beyond. Input field.

Zero Offset: An optional modification to impact windage at zero range. This is often used when adding a suppressor or using a subsonic load. For example, if you add a suppressor and your bullet impacts the target 1 inch to the left of the expected impact, your Zero Offset is -1 inch. You must set this to zero when you remove the suppressor. Input field.

Zero Pressure: The ambient pressure while sighting in your gun. This is an optional modification recommended when sighting in your gun at 300 yards and beyond. Input field.

Zero Temperature: The temperature while sighting in your gun. This is an optional modification recommended when sighting in your gun at 300 yards and beyond. Input field.

Profile Fields - Calibrate Muzzle Velocity

Range: The distance from the muzzle to the target, displayed in yards or meters. Input field.

TIP: You should enter a value as close as possible to the range suggested in the shooting solution. This is the range where the bullet slows to Mach 1.2 and begins to enter the transonic range.

True Drop: The actual distance the bullet falls while in flight to the target, displayed in milliradians (mrad/mil) or minute of angle (MOA). Input field.

Profile Fields - Calibrate Custom Drag Factor

Range: The range from which you are shooting. Input field.

TIP: In most cases, the calibrated custom drag factor should not exceed a 10% correction.

True Drop: The actual distance the bullet falls when fired at a specific range, displayed in milliradians (mrad/mil) or minute of angle (MOA). Input field.

Profile Fields - Calibrate Drop Scale Factor

Range: The range from which you are shooting. Input field.

TIP: This range should be within 90% of the recommended range suggested in the shooting solution. Values that are less than 80% of the recommended range will not provide a valid adjustment.

True Drop: The actual distance the bullet falls when fired at a specific range, displayed in milliradians (mrad/mil) or minute of angle (MOA). Input field.

Profile Data Screen Fields

Aerodynamic Jump: The amount of the elevation solution attributed to aerodynamic jump. Aerodynamic jump is the vertical deflection of the bullet due to a crosswind. Aerodynamic jump is calculated based on the wind speed 1 value. If there is no crosswind component or wind value, this value is zero.

Bullet Drop: The total drop the bullet experiences along its flight path.

Cos. Incl. Ang.: The cosine of the inclination angle to the target.

Elevation: The vertical portion of the aiming solution, displayed in milliradians (mrad/mil) or minute of angle (MOA).

H. Cor. Effect: The horizontal Coriolis effect. The horizontal Coriolis effect is the amount of the windage solution attributed to the Coriolis effect. This is always calculated by the device, although the impact may be minimal if you are not shooting at extended range.

Lead: The horizontal correction needed to hit a target moving left or right at a given speed.

TIP: When you enter the speed of your target, the device factors the necessary windage required into the total windage value.

Max. Ord.: The maximum ordinance, displayed in inches or centimeters. The maximum ordinance is the maximum height above the axis of the barrel that a bullet will reach along its flight path.

Max. Ord. Range: The range at which the bullet will reach its maximum ordinance, displayed in yards or meters.

Remaining Energy: The remaining energy of the bullet at target impact, displayed in foot-pounds of force (ft. lbf) or joules (J).

Spin Drift: The amount of the windage solution attributed to the spin drift (gyroscopic drift). For example, in the northern hemisphere, a bullet shot out of a right-hand twist barrel will always deflect slightly to the right as it travels.

Time of Flight: The time of flight, which indicates the time required for a bullet to reach its target at a given range.

V. Cor. Effect: The vertical Coriolis effect. The vertical Coriolis effect is the amount of the elevation solution attributed to the Coriolis effect. This is always calculated by the device, although the impact may be minimal if you are not shooting at extended range.

Velocity: The estimated velocity of the bullet when it impacts the target, displayed in feet per second (f/s) or meters per second (m/s).

Velocity Mach: The estimated velocity of the bullet when it impacts the target, displayed as a factor of mach speed.

Windage 1: The horizontal portion of the aiming solution based on the wind speed 1 and wind direction, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Windage 2: The horizontal portion of the aiming solution based on the wind speed 2 and wind direction, displayed in inches, milliradians (mrad/mil), or minute of angle (MOA).

Applied Ballistics App Settings

Select ⁞⁞⁞ to open the apps list. Select **Settings** > **Applied Ballistics**.

Units: Sets the units of measure used in the Applied Ballistics app.

Hold Precision: Indicates whether the ballistic solver uses precise or rounded calculations.

Targets: Indicates whether targets are identified alphabetically or numerically.

Fire Control Settings: Enables or disables Spin Drift, Coriolis Effect, and Aerodynamic Jump in calculations.

Calculating the Size of an Area

1 Select to open the apps list.
2 Select **Area Calculation**.
3 Select an option:
   - To mark points on the map to calculate an area, select **Use GPS** > **Mark Points**.
   - To walk around the perimeter of the area to calculate, select **Use GPS** > **Basic Area Calculation**.
   - To use a saved course to calculate an area, select **Use Course**.
4 If necessary, edit the measurement units, price per area, price per length, and slope.
5 Follow the on-screen instructions, and select **Start**.
6 Select **Stop and Calculate** when finished.

Viewing Photos

You can view photos you transferred to the device.

1 Select to open the apps list.
2 Select **Photos**.
3 Select a photo.

Sorting Photos

1 Select to open the apps list.
2 Select **Photos**.
3 Select to open the options menu.
4 Select **Sort Photos**.
5 Select an option:
   - Select **Most Recently**.
   - Select **Near A Location**, and select a location.
   - Select **On A Specific Date**, and enter a date.

Viewing the Location of a Photo

1 Select to open the apps list.
2 Select **Photos**.
3 Select a photo.
4 Select to open the options menu.
5 Select **View Map**.

Viewing Photo Information

1 Select to open the apps list.
2 Select **Photos**.
3 Select a photo.
4 Select to open the options menu.
5 Select **View Information**.

Deleting a Photo

1 Select to open the apps list.
2 Select **Photos**.
3 Select a photo.
4 Select to open the options menu.
5 Select **Delete Photo** > **Delete**.

Viewing a Slideshow

1 Select to open the apps list.
2 Select **Photos**.
3 Select a photo.
4 Select to open the options menu.
5 Select **View Slideshow**.

Garmin Share

NOTICE

It is your responsibility to use discretion when sharing information with others. Always ensure you are aware of and comfortable with the individual with whom you share information.

The Garmin Share feature allows you to use Bluetooth technology to wirelessly share your data with other compatible Garmin devices. With Garmin Share enabled and compatible Garmin devices in range of each other, you can select saved locations and courses to transfer to another device through a direct, secured device-to-device connection, without the need for a phone or Wi-Fi connectivity.

Sharing Data with Garmin Share

Before you can use this feature, you must have Bluetooth technology enabled on both compatible devices, and they must be within 3 m (10 ft.) of each other. When prompted, you must also consent to share your data with other Garmin devices using Garmin Share.

Your eTrex Touch navigator can send and receive data when connected to another compatible Garmin device (*Receiving Data with Garmin Share*, page 18). You can also transfer your data between different devices. For example, you can share a favorite course from your eTrex Touch navigator to your compatible Garmin watch.

1 Select to open the apps list.
2 Select **Garmin Share** > **Continue**.
3 Select **Share**.
4 Select a category, and select one or more items.
5 Select **Share**.
6 Wait while the device locates compatible devices.
7 Select a device.
8 Confirm the six-digit PIN matches on both devices, and select **Pair**.
9 Wait while the devices transfer the data.
10 Select **Share Again** to share the same items with another user (optional).
11 Select **Done**.

Receiving Data with Garmin Share

Before you can use this feature, you must have Bluetooth technology enabled on both compatible devices, and they must be within 3 m (10 ft.) of each other. When prompted, you must also consent to share your data with other Garmin devices using Garmin Share.

1 Select to open the apps list.
2 Select **Garmin Share**.
3 Wait while the device locates compatible devices in range.
4 Select **Accept**.
5 Confirm the six-digit PIN matches on both devices, and select **Pair**.
6 Wait while the devices transfer the data.
7 Select **Done**.

Garmin Share Settings

Select to open the apps list. Select **Settings** > **Connectivity** > **Garmin Share**.

Status: Enables the device to send and receive items through Garmin Share.

Forget Devices: Removes all of the devices with which items have been previously shared.

Geocaches

Geocaching is a treasure hunting activity in which players hide or search for hidden caches using clues and GPS coordinates.

Registering Your Device at Geocaching.com

You can register your device at www.geocaching.com to search for a list of nearby geocaches, or to search live information for millions of geocaches.

1. Connect to a wireless network (*Connecting to a Wireless Network*, page 39) or to the Garmin Explore app (*Pairing Your Phone*, page 1).
2. Select to open the apps list.
3. Select **Geocaching** > **Register Device**.

   An activation code and web address appear on your device screen if your device is connected to the internet.
4. On your computer, go to the web address listed and follow the on-screen instructions.

After you register, you can view geocaches from www.geocaching.com on your device while connected wirelessly.

Downloading Geocaches Using a Computer

You can load geocaches manually onto your device using a computer (*Transferring Files to Your Device Using a Computer*, page 46). You can place the geocache files into a GPX file and import them into the GPX folder on the device. With a premium membership to geocaching.com, you can use the "lists" feature to load a large group of geocaches onto your device as a single GPX file.

1. Connect the device to your computer using a USB cable.
2. Go to www.geocaching.com.
3. If necessary, create an account.
4. Sign in.
5. Follow the instructions at geocaching.com to find and download geocaches to your device.

Searching for a Geocache

You can search the geocaches loaded on your navigator.

If you are connected to www.geocaching.com, you can search live geocache data and download geocaches.

NOTE: You can download detailed information for a limited number of geocaches per day. You can purchase a premium subscription to download more. Go to www.geocaching.com for more information.

1. Select to open the apps list.
2. Select **Geocaching**.

   When a geocache is not selected, the app automatically lists the geocaches nearest to your current location.
3. Select to open the options menu.
4. Select an option:
   - To search the geocaches loaded on your navigator near you or near another location, select **Search**, and select a location.
   - To search for live geocaches by code, select **GC Live Download** > **GC Code**, and enter the geocache code.

     This feature allows you to download a specific geocache from www.geocaching.com when you know the geocache code.
   - To search for live geocaches near a location, select **GC Live Download** > **Download Near**, and select a location.
5. Select a geocache.

   The geocache details appear.

   NOTE: If you selected a live geocache and you are connected, the navigator downloads the full geocache details to the internal storage, if necessary.

Filtering the Geocache List

You can filter your geocache list based on certain factors, such as the level of difficulty.

1. Select to open the apps list.
2. Select **Geocaching**.
3. Select to open the options menu.
4. Select **Filter**, and select one or more options:
   - To filter using a saved filter, select **Apply a Saved Filter**, and select a filter from the list.
   - To filter by a geocache category, such as puzzle or event, select **Type**.
   - To filter by the physical size of the geocache container, select **Cache Size**.
   - To filter by **Unattempted**, **Did Not Find**, or **Found** geocaches, select **Status**.
   - To filter using live geocaches, select **Geocache Files**, and select the toggle switch.
   - To filter by the difficulty level of finding the geocache, or the difficulty of the terrain, select a level from 1 to 5.
5. Select **Done** to view the filtered geocache list.

Saving a Custom Geocache Filter

You can create and save custom filters for geocaches based on specific factors.

1. Select to open the apps list.
2. Select **Settings** > **Geocaching** > **Filter Setup** > **Create Filter**.
3. Select items to filter.
4. Select **Save**.

   By default, the new filter is saved automatically as Filter followed by a number. For example, Filter 2. You can edit the geocache filter to change the name (*Editing a Custom Geocache Filter*, page 21).

Editing a Custom Geocache Filter

1. Select to open the apps list.
2. Select **Settings** > **Geocaching** > **Filter Setup**.
3. Select a filter.
4. Select an item to edit.

Viewing Geocache Details

1. Select to open the apps list.
2. Select **Geocaching**.
3. Select a geocache.

   The geocache description appears.

   You can select to view logs or hints.

Navigating to a Geocache

1. Select to open the apps list.
2. Select **Geocaching**.
3. Select a geocache.
4. Select **Navigate**.
5. Select your navigation options:
   - Select the activity name to change the activity type. Activity types include walking, hiking, hunting, and more.
   - To adjust the course to follow map data and recalculate as needed, enable the **Routing** toggle switch.
   - To set how the device routes from one point to the next, select **Advanced Settings** (*Routing Settings*, page 25).
6. Select **Go**.

   The device calculates your route and displays it on the map. You can navigate using the navigation tools (*Map*, page 29, *Compass*, page 26).

Logging the Attempt

After you have attempted to find a geocache, you can log your results. You can verify some geocaches at www.geocaching.com.

1. Select to open the apps list.
2. When navigating to a geocache, select **Geocaching** > **Log**.
3. Select **Found**, **Did Not Find**, **Needs Repair**, or **Unattempted**.
4. Select an option:
   - To stop logging, select **Done**.
   - To begin navigation to the geocache nearest you, select **Find Next Closest**.
   - To enter a comment about looking for the cache or about the cache itself, select **Edit Comment**.

If you are signed in to www.geocaching.com, the log uploads to your www.geocaching.com account automatically.

Removing Live Geocache Data from the Device

You can remove live geocache data to show only geocaches manually loaded on the device using a computer.

1. Select to open the apps list.
2. Select **Settings** > **Geocaching** > **Geocaching Live** > **Remove Live Data**.

   Live geocaching data is removed from the device and no longer appears in the geocache list.

Removing Your Device Registration From Geocaching.com

If you transfer ownership of your device, you can remove your device registration from the geocaching website.

1. Select to open the apps list.
2. Select **Settings** > **Geocaching** > **Geocaching Live** > **Unregister Device**.

Geocaching Settings

Select to open the apps list. Select **Settings** > **Geocaching**.

Geocaching Live: Allows you to remove live geocache data from your device and remove your device registration from geocaching.com (*Removing Live Geocache Data from the Device*, page 21, *Removing Your Device Registration From Geocaching.com*, page 22).

Geocache Style: Sets the device to display the geocache list using names or codes.

Filter Setup: Allows you to create and save custom filters for geocaches (*Saving a Custom Geocache Filter*, page 20).

Found Geocaches: Allows you to edit the number of geocaches found. This number automatically increases when you log a find (*Logging the Attempt*, page 21).

Geocache Proximity Alarm: Allows you to set an alert to sound when you are within a specified range of a geocache.

Satellite Page

The satellite page shows your current location, satellite locations, and signal strength. Select to open the apps list. Select **Satellite**. You can swipe left or right to view additional satellite constellations (if available).

Satellite Settings

Select to open the apps list. Select **Satellite**. Select to open the options menu.

Use With GPS On: Turns on GPS.

NOTE: This option appears when the device is in demo mode (*Satellite Settings*, page 41).

Track Up: Indicates whether satellites are shown with their rings oriented with your current track toward the top of the screen.

North Up: Indicates whether satellites are shown with their rings oriented with north toward the top of the screen.

Single Color: Displays the satellite page in single color format.

Multicolor: Displays the satellite page in multicolor format.

Satellite Setup: Sets the satellite system options (*Satellite Settings*, page 41).

Saved Data

From the home page, select **Saved**.

Waypoints: Waypoints are locations you record and store in the device. Waypoints can mark where you are, where you are going, or where you have been (*Waypoints*, page 32).

Courses: A course is a sequence of waypoints or locations that leads you to your final destination (*Courses*, page 33).

Activities: You can use your device to record your path as an activity (*Starting an Activity*, page 6).

Collections: You can use the Garmin Explore app to group related waypoints, courses, or activities into collections. You can show or hide the data in each collection on the device (*Garmin Explore*, page 35).

Using the Saved App

1. From the home page, select **Saved**.
2. Select **Collections**.

   Garmin Explore

   TIP: You can use the menu options to enable or disable collections on your device. If your saved data is organized into collections, this helps filter the content in the saved app. The app will display the waypoints and courses in your enabled collections.
3. Select a saved item.

   TIP: You can filter the list of saved items by selecting the icons at the top of the list. For example, select to filter for waypoints.
4. Select an option:
   - To navigate to a saved item, select **Navigate**.
   - To view the elevation plot for a course or activity, select .
   - To show the course or activity on the map, even when you are not navigating, select , and select **Show on Map**.
   - To change the color of a course or activity on the map, even when you are not navigating, select , and select **Set Color**.
   - To delete a saved item, select , and select **Delete**.

Using the Stopwatch

1. Select to open the apps list.
2. Select **Stopwatch**.
3. Select , and select **Enable Activ. Sync** to start and stop an activity when you start and stop the timer (optional).
4. Select **Start** to start the timer.
5. Select **Lap** to restart the lap timer.

   The total stopwatch time continues running.
6. Select **Stop** to stop both timers.
7. Select **Reset** to reset both timers.

Viewing a Weather Forecast

While your eTrex navigator is connected to your phone or to a Wi-Fi network and has an active internet connection, it can receive detailed weather information from the internet.

1. Select to open the apps list.
2. Select **Weather**.

   The navigator automatically downloads a weather forecast for your current location.
3. Select a time interval, the weather map, or a day to view detailed weather information.

Viewing the Weather Map

While your navigator is connected to a phone or Wi-Fi network with internet access, you can view a live weather map showing precipitation, cloud coverage, temperature, or wind conditions.

1. Select to open the apps list.
2. Select **Weather**.
3. Select the weather map.
4. Select **Precipitation**, **Cloud Coverage**, **Temperature**, or **Wind**.

   NOTE: Some options may not be available in all areas.

   The selected data appears on the map. The navigator may take a few moments to load the weather map data.

Adding a Weather Location

You can add a weather location to view weather forecasts for waypoints, GPS coordinates, or other locations.

1. Select to open the apps list.
2. Select **Weather**.
3. Select to open the options menu.
4. Select **Weather Locations** > **New Location**.
5. Select a location.
6. Select **Select Location**.
7. Edit the location name if necessary, and select .

   The navigator downloads a forecast for the selected location.

Switching the Weather Location

You can quickly switch between forecasts for weather locations you have previously added.

1. Select to open the apps list.
2. Select **Weather**.
3. Select to open the options menu.
4. Select **Weather Locations**.
5. Select a location from the list.

   TIP: The My Location option always downloads a forecast for your current location.

   The navigator downloads the most recent forecast for the selected location.

Deleting a Weather Location

1. Select to open the apps list.
2. Select **Weather**.
3. Select to open the options menu.
4. Select **Weather Locations**.
5. Select .
6. Select .

   NOTE: You cannot delete the My Location forecast.

Searching for Apps

1. From the home page, select .
2. Select the **Apps** filter at the top of the screen.
3. Select **Search Apps**.
4. Enter all or part of the app name.

Navigation

Navigating to a Destination

1 From the home page, select .
2 Select a category.
3 Select a destination.

TIP: You can search for a destination, such as recent finds or saved locations (*Searching for a Destination*, page 25).

4 Select **Navigate**.
5 Select your navigation options:
   - Select the activity name to change the activity type. Activity types include walking, hiking, hunting, and more.
   - To adjust the course to follow map data and recalculate as needed, enable the **Routing** toggle switch.
   - To set how the device routes from one point to the next, select **Advanced Settings** (*Routing Settings*, page 25).
6 Select **Go**.

The device calculates your route and displays it on the map. You can navigate using the navigation tools (*Map*, page 29, *Compass*, page 26).

Searching for a Destination

1 From the home page, select .
2 Select the **Map** filter at the top of the screen.
3 Select an option:
   - To search for a destination on the preloaded map, select **Search Map**.
   - To search for a recently found location, select **Recent Finds**.
   - To use the map to select a destination, select **Use Map**.
   - To search for a saved waypoint, course, or activity, select **Saved**.
   - To search for a point of interest, such as cities, food, or lodging, select **Points of Interest**.
   - To search for a downloaded geocache, select **Geocaches**.
   - To point the device at an object in the distance and navigate using the object as a reference point, select **Sight 'N Go**.
   - To navigate back to the beginning of your activity, select **TracBack**.
   - To select a destination using known coordinates, select **Coordinates**.
4 If necessary, enter all or part of the name.
5 If necessary, select **Current Location** to change the search area from near your current location to near another location.
6 Select a destination.

Routing Settings

Begin navigating to a destination (*Navigating to a Destination*, page 25). Select **Advanced Settings**.

NOTE: The available routing settings vary based on the destination or course selected.

Calculation Method: Sets the method used to calculate your route.

Off Course Recalculation: Sets recalculation preferences when navigating away from an active route.

Avoidance Setup: Sets the types of roads, terrain, and transportation methods to avoid while navigating.

Course Transitions: Sets how the device routes from one point on the course to the next. This setting is available only for courses. The Distance option routes you to the next point on the route when you are within a specified distance of your current point. You can use the Up Ahead app while navigating direct path courses to change the active point.

Stopping Navigation

1 From the home page, select .
2 Select **Stop Navigation**.

Compass

When navigating, points to your destination, regardless of the direction you are moving. When points toward the top of the electronic compass, you are traveling directly toward your destination. If points any other direction, turn until it points toward the top of the compass.

Navigating with the Compass

When navigating to a destination, points to your destination, regardless of the direction you are moving.

1 Begin navigating to a destination (*Navigating to a Destination*, page 25).
2 Select > **Compass** to open the compass.
3 Turn until points toward the top of the compass, and continue moving in that direction to the destination.

Navigating with Sight 'N Go

You can point the device at an object in the distance with the compass direction locked in, project the object as a waypoint, and navigate using the object as a reference point.

1 Select > **Compass** to open the compass.
2 Select to open the options menu.
3 Select **Sight 'N Go**.
4 Point the device at an object.
5 Select **Lock Direction** > **Set Course**.
6 Navigate using the compass.

Projecting a Waypoint from Your Current Location

You can save a new waypoint by projecting the distance from your current location.

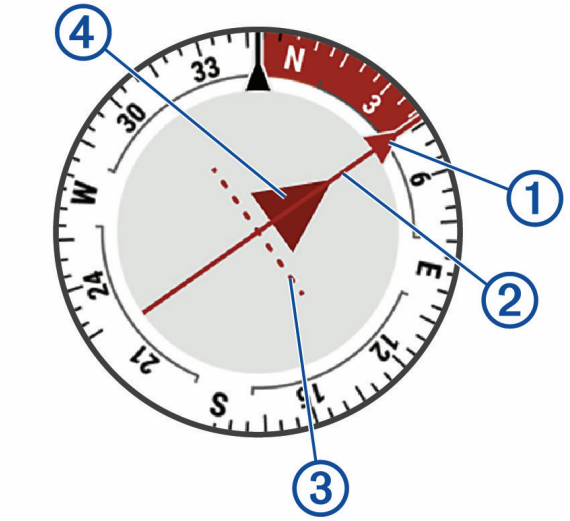
For example, if you would like to navigate to a location you observe on the other side of a river or stream, you can project a waypoint from your current location to the observed location, and then navigate to the new location after you cross the river or stream.

1 Select > **Compass** to open the compass.
2 Select to open the options menu.
3 Select **Sight 'N Go**.
4 Point the device at the new location.
5 Select **Lock Direction** > **Project Waypoint**.
6 Select a unit of measure.
7 Enter the distance, and select **Done**.
8 Select **Save**.

Using the Course Pointer

The course pointer is most useful when you are navigating to your destination in a straight line, such as when you are navigating on water. It can help you navigate back to the course line when you go off-course to avoid obstacles or hazards.

1. Select > **Compass** to open the compass.
2. Select to open the options menu.
3. Select **Compass Settings** > **Compass Style** > **Course (CDI)** to enable the course pointer.



①	Course line pointer. Indicates the direction of the desired course line from your starting point to your next waypoint.
②	Course deviation indicator (CDI). Indicates the location of the desired course line in relation to your location. If the CDI is aligned with the course line pointer, you are on course.
③	Course deviation distance. The dots indicate your distance off course. The distance represented by each dot is indicated by the scale in the upper-right corner.
④	To-and-from indicator. Indicates whether you are past the next waypoint.

Compass Settings

Select > **Compass** to open the compass, and select .

Sight 'N Go: Allows you to point the device at an object in the distance, and navigate using the object as a reference point (*Navigating with Sight 'N Go*, page 26).

Stop Navigation: Stops navigation of the current route.

Resume Navigation: Resumes navigation of the current route.

Change Dashboard: Changes the theme and information displayed on the dashboard.

NOTE: Your compass dashboard is activity-specific. Your settings are saved to the current activity type (*Activity Settings*, page 40).

Calibrate Compass: Calibrates the compass if you experience irregular compass behavior. For example, after moving long distances or after extreme temperature changes (*Calibrating the Compass*, page 28).

Compass Settings > Activity Settings: Customizes the compass settings for the current activity type (*Activity Settings*, page 40).

Compass Settings > Display: Sets the directional heading on the compass to letters, degrees, or milliradians.

Compass Settings > North Reference: Sets the north reference used on the compass (*Setting the North Reference*, page 28).

Compass Settings > Compass Style: Sets the behavior of the pointer that appears on the map when navigating. Bearing points in the direction of your destination. Course (CDI) shows your relationship to the course line leading to the destination.

Compass Settings > Set Scale: Sets the scale for the distance between the dots on the course deviation indicator when navigating with Sight 'N Go.

Compass Settings > Compass: Automatically switches from an electronic compass to a GPS compass when you are traveling at a higher rate of speed for a period of time.

Lock Data Fields: Locks the data fields. You can unlock the data fields to customize them.

Restore Defaults: Restores the compass to factory default settings.

Calibrating the Compass

Before you can calibrate the electronic compass, you must be outdoors, away from objects that influence magnetic fields, such as cars, buildings, or overhead power lines.

The eTrex Touch device has a 3-axis electronic compass. You should calibrate the compass after moving long distances or experiencing temperature changes.

1. Select > **Compass** to open the compass.
2. Select to open the options menu.
3. Select **Calibrate Compass** > **Start**.
4. Follow the on-screen instructions.

Setting the North Reference

You can set the directional reference used in calculating heading information.

1. Select > **Compass** to open the compass.
2. Select to open the options menu.
3. Select **Compass Settings** > **North Reference**.
4. Select an option:
   - To set geographic north as the heading reference, select **True**.
   - To set the magnetic declination for your location automatically, select **Magnetic**.
   - To set grid north (000 degrees) as the heading reference, select **Grid**.
   - To set the magnetic variation value manually, select **User**.

Map

▲ represents your location on the map. As you travel, ▲ moves and displays your path. Depending on your zoom level, waypoint names and symbols may appear on the map. You can zoom in on the map to see more detail. When you are navigating to a destination, your route is marked with a colored line on the map.

Managing Maps

1. Select ⋮⋮⋮ to open the apps list.
2. Select **Map Manager**.
3. Select an option:
   - To download premium maps and activate your Outdoor Maps+ subscription for this device, select **Outdoor Maps+** (*Downloading Maps*, page 29).
   - To download TopoActive maps, select **TopoActive Maps** (*Downloading TopoActive Maps*, page 30).
   - To check for updates to downloaded maps, select **Check for Updates**.

Downloading Maps

Before you can download maps to your device, you must pair your device with the Garmin Explore app (*Pairing Your Phone*, page 1), and connect to a wireless network (*Connecting to a Wireless Network*, page 39).

1. Select ⋮⋮⋮ to open the apps list.
2. Select **Map Manager** > **Outdoor Maps+**.
3. Select **Get Outdoor Maps+** to download premium maps and activate your Outdoor Maps+ subscription for this device.

   NOTE: Go to garmin.com/outdoormaps for information about purchasing a subscription.
4. Select ☰, and select **Layer Information** to view details about the map layers (optional).
5. Select **New Map**.
6. Select an option:
   - Select **Use Map** to download an area directly from the map.
   - Select a location from the available categories.

   A preview of the map region appears.
7. From the map, complete one or more actions:
   - Drag the map to view different areas.
   - Pinch or spread two fingers on the touchscreen to zoom in and out of the map.
   - Select ✚ and ▬ to zoom in and out of the map.
   - Double-tap the map to quickly zoom in.
8. Select **Next**.
9. Complete one or more actions:
   - To edit the map name, select **Name**.
   - To change the map layers to download, select the checkboxes next to each layer's name.

     NOTE: You can select ☰ and select **Layer Information** to view details about the map layers.

   An estimated download size appears for the map. You should verify your device has enough available storage space for the map.
10. Select **Download**.

Downloading TopoActive Maps

Before you can download maps to your device, you must pair your device with the Garmin Explore app (*Pairing Your Phone*, page 1), and connect to a wireless network (*Connecting to a Wireless Network*, page 39).

1. Select to open the apps list.
2. Select **Map Manager** > **TopoActive Maps** > **Add**.
3. Select a map.
4. Select **Download**.

Deleting a Map

You can remove maps to increase the available device storage.

NOTE: Some preloaded maps cannot be deleted.

1. Select to open the apps list.
2. Select **Map Manager**.
3. Select an option:
   - Select **TopoActive Maps**, select a map, select , and select **Remove**.
   - Select **Outdoor Maps+**, select a map, select , and select **Delete**.

Navigating with the Map

1. Begin navigating to a destination (*Navigating to a Destination*, page 25).
2. Select > **Map** to open the map.

   A blue triangle represents your location on the map. As you travel, the blue triangle moves and displays your path.
3. Complete one or more actions:
   - Drag the map to view different areas.
   - Pinch or spread two fingers on the touchscreen to zoom in and out on the map.
   - Select and to zoom in and out on the map.
   - Double-tap the map to quickly zoom in.
   - To view more information about a waypoint on the map (represented by an icon) or other location, move the map cursor to the location, and select the information bar at the top of the map.

Measuring Distance on the Map

You can measure the distance between multiple locations.

1. Select > **Map** to open the map.
2. Select to open the options menu.
3. Select **Measure Distance** > **Start**.
4. Select **Use**.

   The measured distance appears.
5. Move the map cursor and select **Use** to add additional locations on the map.

Map Settings

Select > **Map** to open the map, and select .

Show Dashboard: Shows or hides the dashboard after setting one to display on the map in the settings for the current activity type (*Activity Settings*, page 40).

Stop Navigation: Stops navigating the current route.

Map Setup > Activity Settings: Customizes the map settings for the current activity type (*Activity Settings*, page 40).

NOTE: The map dashboard, dark mode, and other settings are activity-specific.

Map Setup > Map Manager: Select to view and manage downloaded maps. With an Outdoor Maps+ subscription, allows you to download additional maps (*Managing Maps*, page 29).

Map Setup > Orientation: Adjusts how the map is shown on the page (*Changing the Map Orientation*, page 31).

Map Setup > Guidance Text: Sets when the guidance text is shown on the map.

Map Setup > Auto Zoom: Automatically selects the appropriate zoom level for optimal use on your map. When Off is selected, you must zoom in or out manually.

Map Setup > Detail: Sets the amount of detail shown on the map. Showing more detail may cause the map to redraw more slowly.

Map Setup > Shaded Relief: Shows detail relief on the map, if available, or turns off shading.

Map Setup > Vehicle: Sets the position icon, which represents your position on the map. The default icon is a small blue triangle.

Map Setup > Text Size: Sets the text size for map items.

Map Setup > Map Speed: Adjusts the speed at which the map is drawn. A faster map drawing speed decreases the battery life.

Measure Distance: Measures the distance between multiple locations (*Measuring Distance on the Map*, page 30).

Restore Defaults: Restores the map to factory default settings.

Map Layers: Shows different layers in the map and allows you to select which layers to view.

Download Maps Here: With an Outdoor Maps+ subscription, allows you to download maps for the current location (*Managing Maps*, page 29).

Changing the Map Orientation

1. Select > **Map** to open the map.
2. Select to open the options menu.
3. Select **Map Setup** > **Orientation**.
4. Select an option:
   - Select **North Up** to show north at the top of the page.
   - Select **Track Up** to show your current direction of travel at the top of the page.
   - Select **Automotive Mode** to show an automotive perspective with the direction of travel at the top of the page.

Showing and Hiding Map Data

If you have multiple maps installed on your device, you can choose the map data to show on the map.

1. From the map, select .
2. Select the map layer to show or hide the map data.

Optional Maps

You can use additional maps with the device, such as Outdoor Maps+, City Navigator®, and Garmin HuntView™ Plus detailed maps. Detailed maps may contain additional points of interest, such as restaurants or marine services. For more information, go to buy.garmin.com or contact your Garmin dealer.

Purchasing Additional Maps

1. Go to your device product page at garmin.com.
2. Click the **Maps** tab.
3. If necessary, select a continent and a map type.
4. Select a map.
5. Follow the on-screen instructions.

Waypoints

Waypoints are locations you record and store in the device. Waypoints can mark where you are, where you are going, or where you have been. You can add details about the location, such as name, elevation, and depth.

You can add a .gpx file that contains waypoints by transferring the file to the GPX folder (*Transferring Files to Your Device Using a Computer*, page 46).

Saving Your Current Location as a Waypoint

1. Select > **Mark Waypoint**.
2. If necessary, select a field to edit information about the waypoint, such as the name or location.
3. Select **Done**.

Saving a Location on the Map as a Waypoint

You can save a location on the map as a waypoint.

1. Select > **Map** to open the map.
2. Tap the screen to select a location.
3. Select the information bar at the top of the screen.
4. Select to open the options menu.
5. Select **Save as Waypoint**.

Navigating to a Waypoint

1. From the home page, select **Saved**.
2. Select a waypoint.

   TIP: You can select to filter your saved data for waypoints.
3. Select **Navigate**.
4. Select your navigation options:
   - Select the activity name to change the activity type. Activity types include walking, hiking, hunting, and more.
   - To adjust the course to follow map data and recalculate as needed, enable the **Routing** toggle switch.
   - To set how the device routes from one point to the next, select **Advanced Settings** (*Routing Settings*, page 25).
5. Select **Go**.

   The device calculates your route and displays it on the map. You can navigate using the navigation tools (*Map*, page 29, *Compass*, page 26).

Finding a Saved Waypoint

1. From the home page, select .
2. Select **Saved** > **Waypoints**.
3. If necessary, select an option:
   - Select **Search Waypoints** to search using the name of the waypoint.
   - Select **Searching Near** to search near a recently found location, another waypoint, your current location, or a point on the map.
4. Select a waypoint from the list.

Editing a Waypoint

1. From the home page, select **Saved**.
2. Select a saved waypoint.
3. Select to open the options menu.
4. Select **Edit Waypoint**.
5. Select an item to edit, such as the name or location.
6. Enter the new information, and select **Done**.

Deleting a Waypoint

1. From the home page, select **Saved**.
2. Select a saved waypoint.
3. Select to open the options menu.
4. Select **Delete**.

Projecting a Waypoint from a Saved Waypoint

You can save a new waypoint by projecting the distance and bearing from a saved waypoint to a new location.

1. From the home page, select **Saved**.
2. Select a waypoint.
3. Select to open the options menu.
4. Select **Project Waypoint**.
5. Enter the bearing, and select **Done**.
6. Select a unit of measure.
7. Enter the distance, and select **Done**.
8. Select **Save**.

Finding a Location Near a Waypoint

1. From the home page, select **Saved**.
2. Select a waypoint.
3. Select to open the options menu.
4. Select **Find Near Here**.
5. Select a category.

The list displays locations near the selected waypoint.

Courses

A course can have multiple destinations, and can be navigated point to point or on routable roads. Courses are saved as FIT files on the device.

Navigating a Saved Course

1. From the home page, select **Saved**.
2. Select a course.

   TIP: You can select to filter your saved data for courses.
3. Select **Navigate**.
4. Select your navigation options:
   - To change the activity type, select the activity name. Activity types include walking, hiking, hunting, and more.
   - To adjust the course to follow map data and recalculate as needed, enable the **Routing** toggle switch.
   - To set how the device routes from one point to the next, select **Advanced Settings** (*Routing Settings*, page 25).
5. Select **Go**.

   The device calculates your route and displays it on the map. You can navigate using the navigation tools (*Map*, page 29, *Compass*, page 26).

Editing the Name of a Course

1. From the home page, select **Saved**.
2. Select a course.
3. Select to open the options menu.
4. Select **Change Name**.
5. Enter the new name.

Changing the Color of a Course on the Map

You can customize the track color of a course on the map to make it distinct.

1. From the home page, select **Saved**.
2. Select a course.
3. Select to open the options menu.
4. Select **Set Color**.
5. Select a color.

Viewing a Saved Course on the Map

1. From the home page, select **Saved**.
2. Select a course.
3. Select to open the options menu.
4. Select **Show on Map**.

Viewing the Elevation Plot of a Course

The elevation plot displays the elevation data for a course based on your routing settings when navigating. If routing is disabled, the elevation plot displays the straight-line elevation data between course points. If routing is enabled, the device adjusts the course to follow map data and recalculate as needed, and the elevation plot displays the elevation data along the roads included in your course.

1. From the home page, select **Saved**.
2. Select a course.
3. Select .

Deleting a Course

1. From the home page, select **Saved**.
2. Select a course.
3. Select to open the options menu.
4. Select **Delete**.

Connected Features

Connected features are available for your eTrex Touch navigator when you connect the device to a wireless network or a compatible phone using Bluetooth technology. Some features require you to install the Garmin Explore app on your phone. Go to garmin.com/apps for more information.

Garmin Explore: The Garmin Explore app syncs and shares waypoints, courses, and collections with your device. You can also download maps to your phone for offline access.

Connect IQ: Allows you to extend your device features with widgets, data fields, and apps using the Connect IQ app.

EPO Downloads: Allows you to download an extended prediction orbit file to quickly locate GPS satellites and reduce the time it takes to get an initial GPS fix using the Garmin Explore app or when connected to a Wi-Fi network.

Outdoor Maps+: Allows you to download satellite imagery or premium map data using an Outdoor Maps+ subscription when connected to a Wi-Fi network.

Live Geocache Data: Provides paid or subscription-free services to view live geocache data from www.geocaching.com using the Garmin Explore app or when connected to a Wi-Fi network.

Phone notifications: Displays phone notifications and messages from your paired phone on your eTrex Touch navigator.

Software Updates: Allows you to receive updates for your device software using the Garmin Explore app or when connected to a Wi-Fi network.

Weather: Allows you to view current weather conditions and weather forecasts using the Garmin Explore app or when connected to a Wi-Fi network.

Follow Garmin Trails: With a Garmin Connect+™ subscription, access outdoor trails and courses recommended by Garmin databases and other Garmin users, with pictures, ratings, trip reports, and more. To sign up, you can download the Garmin Connect app from the app store on your phone, or go to connect.garmin.com.

Garmin Explore

The Garmin Explore website and app allow you to create courses, waypoints, and collections, plan trips, sync tracks, upload activities, and use cloud storage. They offer advanced planning both online and offline, allowing you to share and sync data with your compatible Garmin device. You can use the app to download maps for offline access, and then navigate anywhere without using your cellular service.

You can download the Garmin Explore app from the app store on your phone (garmin.com/exploreapp), or you can go to explore.garmin.com.

Connected Feature Requirements

Some features require a phone and a Garmin app on your phone.

Feature	Connected to a Paired Phone	Connected to a Wi-Fi Network
Activity uploads to Garmin Explore	Yes	No
Software updates	Yes	Yes
EPO downloads	Yes	Yes
Live geocache data	Yes	Yes
Weather	Yes	Yes
Phone notifications	Yes[1]	No
Connect IQ	Yes	No
Outdoor Maps+	Yes[2]	Yes[3]

Phone Notifications

Phone notifications require a compatible smartphone to be paired with the eTrex Touch device. When your phone receives messages, it sends notifications to your device.

Viewing Phone Notifications

Before you can view notifications, you must pair your device with your compatible phone.

1 Hold ⏻ or swipe down from the top of the home page to open the notification center and controls.
2 Select a notification.

Disabling Smart Notifications

By default, smart notifications appear on the screen when they are received on your paired phone. You can disable smart notifications to prevent them from appearing.

1 Select ⠿ to open the apps list.
2 Select **Settings** > **Connectivity** > **Bluetooth** > **Smart Notifications**.
3 Select the toggle switch to disable smart notifications.

Managing Notifications

You can use your compatible phone to manage notifications that appear on your eTrex Touch device.

Select an option:

- If you are using an iPhone®, go to the iOS notifications settings, and select the notifications to show on your phone and device.

  NOTE: All notifications that you enable on your iPhone also appear on your device.
- If you are using an Android phone, from the Garmin Explore app, select your profile picture, and select **App Settings** > **Notifications**, and select the notifications that you want to appear on your device.

Connect IQ Features

You can add Connect IQ features to your device from Garmin and other providers using the Connect IQ app.

Data Fields: Download new data fields that present sensor, activity, and history data in new ways. You can add Connect IQ data fields to built-in features and pages.

Apps: Add interactive features to your device, such as new outdoor and fitness activity types.

[1] The device receives phone notifications from a paired iOS® phone directly, and through the Garmin Explore app on an Android™ phone.
[2] Required to activate your subscription.
[3] Required to download maps.

Downloading Connect IQ Features

Before you can download features from the Connect IQ app, you must pair your eTrex Touch device with your smartphone (*Pairing Your Phone*, page 1).

1. From the app store on your smartphone, install and open the Connect IQ app.
2. If necessary, select your device.
3. Select a Connect IQ feature.
4. Follow the on-screen instructions.

Downloading Connect IQ Features Using Your Computer

1. Connect the device to your computer using a USB cable.
2. Go to apps.garmin.com, and sign in.
3. Select a Connect IQ feature, and download it.
4. Follow the on-screen instructions.

Settings Menu

Select to open the apps list. Select **Settings**.

TIP: You can search for a setting by name (*Searching for Settings*, page 44).

Sounds: Sets the device sounds, such as button feedback and alerts (*Sounds Settings*, page 37).

Display & Brightness: Adjusts the backlight and display settings (*Display and Brightness Settings*, page 38).

Connectivity: Pairs your device to a phone and wireless sensors, allows you to connect to wireless networks, and provides access to other connectivity features and settings (*Connectivity Settings*, page 38).

Activities: Customizes the activities list (*Customizing the Activities List*, page 6), and customizes each activity's map, compass, and recording settings (*Activity Settings*, page 40).

Data Recording: Customizes activity recording settings and the recording method used on the device (*Data Recording Settings*, page 40).

System: Customizes system settings (*System Settings*, page 41).

Map: Sets the map appearance and customizes map settings (*Map Settings*, page 31).

Geocaching: Customizes your geocache settings (*Geocaching Settings*, page 22).

Marine: Sets the appearance of marine data on the map (*Marine Settings*, page 44).

Applied Ballistics: Customizes the settings for the Applied Ballistics app (*Applied Ballistics App Settings*, page 16).

Sounds Settings

Select to open the apps list. Select **Settings** > **Sounds**.

Tones: Mutes all sounds.

Smart Notifications: Enables notifications from your paired phone, and sets device tones for calls, texts, and phone apps.

Turn Warnings: Selects the type of tones used for turn warnings when navigating.

System Alerts: Enables system alerts, and sets device tones.

Button Feedback: Plays a tone when you press a button.

Keyboard Feedback: Plays a tone when you use the onscreen keyboard.

Start/Stop Activity: Plays a tone when you start and stop an activity.

Lap: Plays a tone when you start and stop a lap.

Touch Interactions: Plays a tone when you interact with the touchscreen.

Display and Brightness Settings

Select to open the apps list. Select **Settings** > **Display & Brightness**.

Brightness: Adjusts the screen brightness.

Auto Brightness: Automatically adjusts the screen brightness based on ambient light.

Night Vision: Enables night vision mode for compatibility with night vision goggles when the Auto Brightness option is turned off.

Display Timeout: Adjusts the length of time before the screen turns off.

NOTE: This option impacts battery life.

Backlight Timeout: Adjusts the length of time before the backlight turns off when the Display Timeout option is set to Never.

NOTE: The device uses more battery when the screen is always on.

Tap to Wake: Turns on the screen when tapped.

Auto Lock: Locks the device after the screen turns off. You can press the power button to unlock the device.

Dark Mode: Displays day or night colors automatically based on the time of day, or always uses a light or dark background.

Connectivity Settings

Select to open the apps list. Select **Connectivity**.

Sensors & Accessories: Pairs wireless sensors and accessories with your device (*Pairing Your Wireless Sensors*, page 39).

Bluetooth: Pairs your device to a phone and customizes the Bluetooth settings (*Bluetooth Settings*, page 39).

Wi-Fi: Connects to wireless networks and customizes the Wi-Fi settings (*Wi-Fi Settings*, page 39).

Garmin Share: Enables the Garmin Share feature to send or receive data with other Garmin devices (*Garmin Share*, page 18), and removes previously paired devices.

Wireless Sensors

You can pair your navigator with wireless sensors using ANT+® or Bluetooth technology (*Pairing Your Wireless Sensors*, page 39). After the devices are paired, you can customize the optional data fields (*Customizing the Data Fields*, page 4).

For information about specific Garmin sensor compatibility, purchasing, or to view the owner's manual, go to buy.garmin.com for that sensor.

Sensor Type	Description
Applied Ballistics	You can use Applied Ballistics devices, such as rangefinders or wind sensors, and view additional ballistics information on your navigator.
Bike Spd/Cad Sensor	You can attach speed or cadence sensors to your bike and view the data during your ride.
Heart Rate Monitor	You can use an external sensor, such as a chest heart rate monitor, to view heart rate data during your activities.
Tempe Sensor	You can attach the tempe temperature sensor to a secure strap or loop where it is exposed to ambient air, so it provides a consistent source of accurate temperature data.
CIQ Sensor	You can use sensors for downloaded Connect IQ apps.

Pairing Your Wireless Sensors

Your navigator can be paired with wireless sensors using ANT+ or Bluetooth technology. For example, you can connect a heart rate monitor with your navigator. For more information about compatibility and purchasing optional sensors, go to buy.garmin.com. For more information about connection types, go to garmin.com/hrm_connection_types.

1. Put on the heart rate monitor, install the sensor, or press the button to wake up the sensor.

   NOTE: See your wireless sensor owner's manual for pairing information.
2. Bring the navigator within 3 m (10 ft.) of the sensor.

   NOTE: Stay 10 m (33 ft.) away from other sensors while pairing.
3. Select to open the apps list.
4. Select **Settings** > **Connectivity** > **Sensors & Accessories**.
5. Select your sensor type.
6. Select **Search For New**.

   When the sensor is paired with your navigator, the sensor status changes from Searching to Connected.

Bluetooth Settings

Select to open the apps list. Select **Settings** > **Connectivity** > **Bluetooth**.

Status: Enables Bluetooth wireless technology, and shows current connection status.

Smart Notifications: Enables notifications from your paired phone, and sets device tones and vibration patterns for calls, texts, and phone apps.

Forget Phone: Removes the connected phone from the list of paired phones. This option is available only after a phone is paired.

Wi-Fi Settings

Select to open the apps list. Select **Settings** > **Connectivity** > **Wi-Fi**.

Wi-Fi: Enables Wi-Fi wireless technology.

NOTE: Other Wi-Fi settings appear only when Wi-Fi is enabled.

Auto Upload: Upload activities automatically over a known wireless network.

Wi-Fi Sync: Select to manually sync data over a Wi-Fi connection.

My Networks: Connects your device to a wireless network (*Connecting to a Wireless Network*, page 39).

Connecting to a Wireless Network

1. Select to open the apps list.
2. Select **Settings** > **Connectivity** > **Wi-Fi**.
3. Select the toggle switch to enable Wi-Fi technology, if necessary.
4. Select **My Networks** > **Add Network**.
5. Select a wireless network from the list and enter the password, if necessary.

The navigator stores the network information and connects automatically when you return to this location.

Activity Settings

These settings allow you to customize each preloaded activity based on your needs. For example, you can customize the map appearance, compass dashboard, and activity recording settings for each activity.

Select to open the apps list. Select **Settings** > **Activities**, and select an activity.

Lock On Road: Locks the position icon, which represents your position on the map, onto the nearest road. This is most useful when driving or navigating on roads.

Map Dashboard: Sets a dashboard to display on the map. Each dashboard shows different information about your activity or your location.

Track Color: Changes the track log color.

High Contrast: Sets the map to display data with higher contrast, for better visibility in challenging environments.

Marine Chart Mode: Sets the type of chart the device uses when displaying marine data. Nautical displays various map features in different colors so the marine POIs are more readable and so the map reflects the drawing scheme of paper charts. Fishing (requires marine maps) displays a detailed view of bottom contours and depth soundings and simplifies map presentation for optimal use while fishing.

Compass Dashboard: Customizes the dashboard that displays on the compass. Each dashboard shows different information about your activity or your location.

Auto Pause: Sets the device to stop recording your activity when you drop below a specific speed.

Auto Lap: Sets the device to automatically mark a lap a specific distance.

Marking Laps by Distance

You can use the Auto Lap® feature to automatically mark the lap at a specific distance. This feature is helpful for comparing your performance over different parts of an activity.

1. Select to open the apps list.
2. Select **Settings** > **Activities**.
3. Select an activity.
4. Select the **Auto Lap** toggle switch to turn it on.
5. Select **Auto Lap Distance**.
6. Enter a value, and select **Done**.

Data Recording Settings

Select to open the apps list. Select **Settings** > **Data Recording**.

Activity Settings: Customizes the recording settings for the current activity type (*Activity Settings*, page 40).

NOTE: Auto pause and auto lap settings are activity-specific.

Record Method: Sets how the device records activity data. The Smart option (default) records points at a variable rate to create an optimum representation of your path and allows for longer activity recordings. The Every Second option records points every second and provides more detailed activity recordings, but may not record entire activities that last for longer periods of time.

Auto Start: Sets the device to start a new recording automatically when the device acquires satellites.

Auto Save: Sets an automated schedule to save your recordings. This helps organize your trips and save memory space (*Auto Save Settings*, page 41).

Output Format: Sets the device to save the recording as a FIT or a GPX and FIT file (*File Types*, page 45). The FIT option records your activity with fitness information that is tailored for the Garmin Connect application and can be used for navigation. The FIT and GPX option records your activity as both a traditional track that can be viewed on the map and used for navigation, and as an activity with fitness information.

Trip Recording: Sets a trip recording option.

Auto Save Settings

Select to open the apps list. Select **Settings** > **Data Recording** > **Auto Save**.

Auto: Automatically saves the current recording when no point has been recorded for four days.

Daily: Automatically saves the previous day's recording and starts a new one when you turn on the device on a new day.

Weekly: Automatically saves the previous week's recording and starts a new one when you turn on the device on a new week.

Never: Never saves the current recording automatically.

System Settings

Select to open the apps list. Select **Settings** > **System**.

Satellite: Sets the satellite system options (*Satellite Settings*, page 41).

Compass: Customizes the compass settings (*Compass Settings*, page 28).

Altimeter: Customizes the altimeter settings (*Altimeter Settings*, page 9).

Language: Sets the text language on the device.

NOTE: Changing the text language does not change the language of user-entered data or map data, such as street names.

Keyboard: Enables keyboard languages.

Passcode: Sets a four-digit passcode to secure your device (*Setting Your Device Passcode*, page 42).

Expedition Mode: Customizes settings for turning on expedition mode (*Turning On Expedition Mode*, page 42).

Position Format: Sets the geographical position format and datum options (*Position Format Settings*, page 43).

Units: Sets the units of measure used on the device (*Changing the Units of Measure*, page 43).

Time: Adjusts the time settings (*Time Settings*, page 43).

Waypoints: Sets the automatic name type for waypoints, and allows you to enter a custom prefix for automatically named waypoints.

Accessibility: Sets the touchscreen sensitivity and adjusts the size of the text.

RINEX Logging: Enables the device to write Receiver Independent Exchange Format (RINEX) data to a system file. RINEX is a data interchange format for raw satellite navigation system data.

Advanced Settings > USB Mode: Sets the device to use MTP (media transfer protocol) or Garmin mode when connected to a computer.

Advanced Settings > HR Zones: Sets the five heart rate zones and your maximum heart rate for fitness activities.

Reset: Resets user data and settings (*Resetting Data and Settings*, page 43).

About: Displays device information, such as the unit ID, software version, regulatory information, and license agreement (*Viewing E-label Regulatory and Compliance Information*, page 47).

Satellite Settings

Select to open the apps list. Select **Settings** > **System** > **Satellite**.

Auto Select: Enables the device to use SatIQ™ technology to dynamically select the best multi-band system based on your environment. The Auto Select setting offers the best positioning accuracy while still prioritizing battery life.

All Systems + Multi-Band: Enables multiple satellite systems on multiple frequency bands. Multi-band systems use multiple frequency bands and allow for more consistent track logs, improved positioning, improved multi-path errors, and fewer atmospheric errors when using the device in challenging environments. However, using multiple systems can reduce battery life more quickly than using GPS only.

GPS only: Enables the GPS satellite system.

Demo Mode: Disables satellite systems.

Setting Your Device Passcode

NOTICE

If you enter your passcode incorrectly three times, the device locks temporarily. After five incorrect attempts, the device locks until you reset your passcode in the Garmin Explore app. If you have not paired your device with your phone, the device deletes your data and resets to the factory default settings after five incorrect attempts.

You can set up a device passcode to prevent unauthorized users from using your device.

1. Select an option:
   - During the initial setup, select **Create Passcode** when prompted.
   - Select to open the apps list, and select **Settings** > **System** > **Passcode** > **Set Passcode**.
2. Enter a four-digit passcode.
3. Re-enter the passcode.

By default, you must enter the passcode immediately after you turn on the device or when the screen turns back on. You can set a time interval before a passcode is required using the Require Passcode setting.

Changing Your Device Passcode

NOTICE

You must know your existing device passcode to change it. If you enter your passcode incorrectly three times, the device locks temporarily. After five incorrect attempts, the device locks until you reset your passcode in the Garmin Explore app. If you have not paired your device with your phone, the device deletes your data and resets to the factory default settings after five incorrect attempts.

1. Select to open the apps list.
2. Select **Settings** > **System** > **Passcode** > **Change Passcode**.
3. Enter your existing four-digit passcode.
4. Enter a new four-digit passcode.
5. Re-enter the passcode.

Turning On Expedition Mode

You can use expedition mode to prolong the battery life. In expedition mode, the screen shuts off, the device enters low power mode, and the device collects fewer GPS track points. You can change how often GPS track points are recorded.

1. Select to open the apps list.
2. Select **Settings** > **System** > **Expedition Mode**.
3. Select an option:
   - To enable the device to prompt you to turn on expedition mode when you turn off the device, select **Expedition Mode** > **Prompted**.
   - To automatically turn on expedition mode after two minutes of inactivity, select **Expedition Mode** > **Auto**.
   - To never turn on expedition mode, select **Expedition Mode** > **Never**.
4. Select **Recording Interval**.

   In expedition mode, the device collects GPS track points at the frequency indicated.

   NOTE: Recording track points less frequently maximizes battery life.

In expedition mode, the green LED flashes occasionally.

Position Format Settings

NOTE: You should not change the position format or the map datum coordinate system unless you are using a map or chart that specifies a different position format.

Select to open the apps list. Select **Settings** > **System** > **Position Format**.

Position Format: Sets the position format in which a location reading appears.

Map Datum: Sets the coordinate system on which the map is structured.

Map Spheroid: Shows the coordinate system the device is using. The default coordinate system is WGS 84.

Changing the Units of Measure

1. Select to open the apps list.
2. Select **Settings** > **System** > **Units**.
3. Select an option:
   - To change the unit of measure for speed and distance, select **Speed/Distance**.
   - To change the unit of measure for vertical speed, select **Vertical Speed**.
   - To change the unit of measure for elevation, select **Elevation** > **Elevation**.
   - To change the unit of measure for depth to feet, fathoms, or meters, select **Elevation** > **Depth**.
   - To change the unit of measure for temperature, select **Temperature**.
   - To change the unit of measure for pressure, select **Pressure**.
4. Select a unit of measure.

Time Settings

Select to open the apps list. Select **Settings** > **System** > **Time**.

Time Format: Sets the device to show time in a 12-hour, 24-hour, or military format.

Time Zone: Sets the time zone for the device. The **Automatic** option sets the time zone automatically based on your GPS position.

Daylight Saving Time: Sets the device to use daylight saving time.

Resetting Data and Settings

1. Select to open the apps list.
2. Select **Settings** > **System** > **Reset**.
3. Select an option:
   - To reset data specific to a trip, such as distance and averages, select **Reset Trip Data**.
   - To delete all saved waypoints, select **Delete All Waypoints**.
   - To clear the data recorded since you started your current activity, select **Clear Current Activity**.

     NOTE: The device continues to record new data for the current activity.
   - To reset all device settings to the factory default values, select **Reset All Settings**.

     NOTE: Resetting all settings clears all geocaching activity from your device. It does not remove your saved user data, such as courses and waypoints.
   - To remove all saved user data and reset all settings on the device to the factory default values, select **Delete All**.

     NOTE: Deleting all settings removes your activity data, personal GPS data, history, and saved user data, including courses and waypoints.

Restoring Default Page Settings

1. Open the page for which you will restore the settings.
2. Select to open the options menu.
3. Select **Restore Defaults**.

Marine Settings

Select to open the apps list. Select **Settings** > **Marine**.

Appearance: Sets the appearance of marine navigation aids on the map.

Marine Alarm Setup: Sets alarms for when you exceed a specified drift distance while anchored, when you are off course by a specified distance, and when you enter water of a specific depth (*Setting Up Marine Alarms*, page 44).

Marine Speed Filter: Averages the speed of your vessel over a short period of time for smoother speed values.

Setting Up Marine Alarms

1. Select to open the apps list.
2. Select **Settings** > **Marine** > **Marine Alarm Setup**.
3. Select an alarm type.
4. Enter a distance, and select **Done**.

Searching for Settings

1. From the home page, select .
2. Select the **Settings** filter at the top of the screen.
3. Select **Search Settings**.
4. Enter all or part of the setting name.

Device Information

Product Updates

On your computer, install Garmin Express™ (www.garmin.com/express). On your phone, install the Garmin Explore app.

This provides easy access to these services for Garmin devices:

- Software updates
- Map updates
- Data uploads to Garmin Explore
- Product registration

Setting Up Garmin Express

1. Connect the device to your computer using a USB cable.
2. Go to garmin.com/express.
3. Follow the on-screen instructions.

Getting More Information

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

- Go to support.garmin.com for additional manuals, articles, and software updates.
- Go to buy.garmin.com, or contact your Garmin dealer for information about optional accessories and replacement parts.

Device Care

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.
Avoid chemical cleaners, solvents, sunscreen, and insect repellents that can damage plastic components and finishes.
Secure the weather cap tightly to prevent damage to the USB port.
Avoid extreme shock and harsh treatment, because it can degrade the life of the product.

Cleaning the Device

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

Cleaning the USB Port

1. Turn off the device and disconnect the device from power.
2. Clean the USB port using a soft, clean, lint-free cloth or cotton swab.
   NOTE: If necessary, you can lightly dampen the cloth or cotton swab with isopropyl alcohol.
3. Allow the device to dry completely before you connect it to power.

Cleaning the Touchscreen

1. Use a soft, clean, lint-free cloth.
2. If necessary, lightly dampen the cloth with water.
3. If using a dampened cloth, turn off the device and disconnect the device from power.
4. Gently wipe the screen with the cloth.

Data Management

File Types

NOTE: Most file types are stored in the GARMIN\NewFiles folder. The GARMIN\GPX folder is used for geocaches. The GARMIN\GPXActivities folder is used for GPX activities if the device is set to save recordings as GPX files (*Data Recording Settings*, page 40).

The handheld device supports these file types:

- Files from Garmin Explore.
- GPX route, track, and waypoint files.
- GPX geocache files (*Downloading Geocaches Using a Computer*, page 19).
- FIT courses, activities, and locations (waypoints).

Connecting the Device to Your Computer

NOTICE

To prevent corrosion, thoroughly dry the USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

1. Pull up the weather cap from the USB port.
2. Plug one end of the cable into the USB port on the device.
3. Plug the other end of the cable into a computer USB port.

   Depending on your computer operating system, the device and memory card (optional) appear as either portable devices, removable drives, or removable volumes.

   NOTE: Mac® operating systems do not detect the device by default. You must use Garmin Express software to interact with files on your device.

Transferring Files to Your Device Using a Computer

1. Connect the device to your computer.

   Depending on your computer operating system, the device and memory card (optional) appear as either portable devices, removable drives, or removable volumes.

   NOTE: Mac operating systems do not detect the device by default. Garmin Express software can be used to perform device updates, but you should use a Windows® operating system to interact with files on your device.
2. On your computer, open the file browser.
3. Select a file.
4. Select **Edit** > **Copy**.
5. Open the portable device, drive, or volume for the device or memory card.
6. Browse to a folder.

   NOTE: Most file types have a named folder within the Garmin folder.
7. Select **Edit** > **Paste**.

   The file appears in the list of files in the device memory or on the memory card.

Deleting Files

NOTICE

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.
3. Select a file.
4. Press the **Delete** key on your keyboard.

Specifications

Battery type	Rechargeable, built-in lithium-ion battery
Battery life	All satellite systems + multi-band: up to 130 hours[4] Expedition mode: up to 650 hours
Water rating	IEC 60529 IP67[5]
Operating temperature range	From -20° to 60°C (from -4° to 140°F)
Charging temperature range	From 0° to 45°C (from 32° to 113°F)
Wireless frequency and transmit power	2,4 GHz: < 20 dBm
EU SAR	Body: 0,085 W/kg Limb: 0,085 W/kg

Viewing E-label Regulatory and Compliance Information

The label for this device is provided electronically. The e-label may provide regulatory information, such as identification numbers provided by the FCC or regional compliance markings, as well as applicable product and licensing information.

1. Select **Settings**.
2. Select **System**.
3. Select **About**.

[4] Assuming typical use with SatIQ technology.
[5] The device is protected against the ingress of dust and withstands incidental exposure to water of up to 1 m for up to 30 min.

Appendix

Data Fields

Some data fields require you to be navigating or require wireless accessories to display data.

24 hr Max. Temp.: The maximum temperature recorded in the last 24 hours from a compatible temperature sensor.

24 hr Min. Temp.: The minimum temperature recorded in the last 24 hours from a compatible temperature sensor.

Accuracy of GPS: The margin of error for your exact location. For example, your GPS location is accurate to within +/- 3.65 m (12 ft.).

Activity Distance: The distance traveled for the current track or activity.

Activity Time: The current time of the activity timer.

Ambient Pressure: The uncalibrated ambient pressure.

Ascent - Average: The average vertical distance of ascent since the last reset.

Ascent - Maximum: The maximum rate of ascent in feet per minute or meters per minute since the last reset.

Ascent - Total: The total elevation distance ascended during the activity or since the last reset.

Automotive Turn: The direction of the next turn in the route. You must be navigating for this data to appear.

Average Cadence: Cycling. The average cadence for the current activity.

Average HR %Max.: The average percentage of maximum heart rate for the current activity.

Average Lap: The average lap time for the current activity.

Avg. HR: The average heart rate for the current activity.

Barometer: The calibrated current pressure.

Battery Level: The remaining battery power.

Bearing: The angular direction. You must be navigating for this data to appear.

Bearing to Destination: The direction from your current location to a destination. You must be navigating for this data to appear.

Cadence: Cycling. The number of revolutions of the crank arm. Your device must be connected to a cadence accessory for this data to appear.

Calories: The amount of total calories burned.

Compass Heading: The direction you are moving based on the compass.

Course: The direction from your starting location to a destination. Course can be viewed as a planned or set route. You must be navigating for this data to appear.

Current Lap: The stopwatch time for the current lap.

Date: The current day, month, and year.

Descent - Average: The average vertical distance of descent since the last reset.

Descent - Maximum: The maximum rate of descent in meters per minute or feet per minute since the last reset.

Descent - Total: The total elevation distance descended during the activity or since the last reset.

Distance to Dest.: The remaining distance to the final destination. You must be navigating for this data to appear.

Distance to Next: The remaining distance to the next waypoint on the route. You must be navigating for this data to appear.

Elapsed Activity Time: The total time recorded. For example, if you start the timer and run for 10 minutes, then stop the timer for 5 minutes, then start the timer and run for 20 minutes, your elapsed time is 35 minutes.

Elevation: The altitude of your current location above or below sea level.

Elevation Above Ground: The altitude of your current location above ground level.

Elevation - Maximum: The highest elevation reached since the last reset.

Elevation - Minimum: The lowest elevation reached since the last reset.

ETA at Destination: The estimated time of day when you will reach the final destination (adjusted to the local time of the destination). You must be navigating for this data to appear.

ETA at Next: The estimated time of day when you will reach the next waypoint on the route (adjusted to the local time of the waypoint). You must be navigating for this data to appear.

Glide Ratio: The ratio of horizontal distance traveled to the change in vertical distance.

Glide Ratio to Dest.: The glide ratio required to descend from your current position to the destination elevation. You must be navigating for this data to appear.

GPS Elevation: The altitude of your current location using GPS.

GPS Heading: The direction you are moving based on GPS.

GPS Signal Strength: The strength of the GPS satellite signal.

Grade: The calculation of rise (elevation) over run (distance). For example, if you climb 3 m (10 ft.) for every 60 m (200 ft.) you travel, the grade is 5%.

Heading: The direction you are moving.

Heart Rate: Your heart rate in beats per minute (bpm). Your device must be connected to a compatible heart rate monitor.

Heart Rate - %Max.: The percentage of maximum heart rate.

Heart Rate Zone: The performance zone of your current heart rate (1 to 5). The default zones are based on your user profile and maximum heart rate (220 minus your age).

Lap Ascent: The vertical distance of ascent for the current lap.

Lap Cadence: Cycling. The average cadence for the current lap.

Lap Descent: The vertical distance of descent for the current lap.

Lap Distance: The distance traveled for the current lap.

Lap Heart Rate Percent: The average percentage of maximum heart rate for the current lap.

Lap HR: The average heart rate for the current lap.

Laps: The number of laps completed for the current activity.

Lap Speed: The average speed for the current lap.

Last Lap Ascent: The vertical distance of ascent for the last completed lap.

Last Lap Cadence: Cycling. The average cadence for the last completed lap.

Last Lap Descent: The vertical distance of descent for the last completed lap.

Last Lap Distance: The distance traveled for the last completed lap.

Last Lap HR: The average heart rate for the last completed lap.

Last Lap Speed: The average speed for the last completed lap.

Last Lap Time: The stopwatch time for the last completed lap.

Location (lat/lon): The current position in latitude and longitude, regardless of the selected position format setting.

Location (selected): The current position using the selected position format setting.

Location of Dest.: The position of your final destination. You must be navigating for this data to appear.

None: This is a blank data field.

Odometer: A running tally of the distance traveled for all trips. This total does not clear when resetting the trip data.

Off Course: The distance to the left or right by which you have strayed from the original path of travel. You must be navigating for this data to appear.

Pace: The current pace.

Pointer: An arrow points in the direction of the next waypoint or turn. You must be navigating for this data to appear.

Speed: The current rate of travel.

Speed Limit: The reported speed limit for the road. Not available in all maps and in all areas. Always rely on posted road signs for actual speed limits.

Speed - Maximum: The highest speed reached since the last reset.

Speed - Moving Avg.: The average speed while moving since the last reset.

Speed - Overall Avg.: The average speed while moving and stopped since the last reset.

Stopwatch Timer: The stopwatch time for the current activity.

Sunrise: The time of sunrise based on your GPS position.

Sunrise/Sunset: The time of the next sunrise or sunset based on your GPS position.

Sunset: The time of sunset based on your GPS position.

Temperature: The temperature of the air. Your body temperature affects the temperature sensor. Your device must be connected to a tempe sensor for this data to appear.

Temperature - Water: The temperature of the water. Your device must be connected to a NMEA® 0183 device capable of acquiring the water temperature.

Time of Day: The time of day based on your current location and time settings (format, time zone, daylight saving time).

Time to Destination: The estimated time remaining before you reach the destination. You must be navigating for this data to appear.

Time to Next: The estimated time remaining before you reach the next waypoint in the route. You must be navigating for this data to appear.

To Course: The direction in which you must move to get back on the route. You must be navigating for this data to appear.

Total Lap: The stopwatch time for all the completed laps.

Trip Odometer: A running tally of the distance traveled since the last reset.

Trip Time: A running tally of the total time spent moving and not moving since the last reset.

Trip Time - Moving: A running tally of the time spent moving since the last reset.

Trip Time - Stopped: A running tally of the time spent not moving since the last reset.

Turn: The angle of difference (in degrees) between the bearing to your destination and your current course. L means turn left. R means turn right. You must be navigating for this data to appear.

Velocity Made Good: The speed at which you are closing on a destination along a route. You must be navigating for this data to appear.

Vertical Dist. to Dest.: The elevation distance between your current position and the final destination. You must be navigating for this data to appear.

Vertical Dist. to Next: The elevation distance between your current position and the next waypoint in the route. You must be navigating for this data to appear.

Vertical Speed: The rate of ascent or descent over time.

Vertical Speed to Dest.: The rate of ascent or descent to a predetermined altitude. You must be navigating for this data to appear.

Waypoint at Dest.: The last point on the route to the destination. You must be navigating for this data to appear.

Waypoint at Next: The next point on the route. You must be navigating for this data to appear.

Optional Accessories

Optional accessories, such as mounts, maps, fitness accessories, and replacement parts, are available at http://buy.garmin.com or from your Garmin dealer.

tempe

Your device is compatible with the tempe temperature sensor. You can attach the sensor to a secure strap or loop where it is exposed to ambient air, so it provides a consistent source of accurate temperature data. You must pair the tempe sensor with your device to display temperature data. See the instructions for your tempe sensor for more information.

Tips for Pairing Wireless Sensors

- Verify that the sensor is compatible with your Garmin device.
- Before you pair the sensor with your Garmin device, move 10 m (33 ft.) away from other sensors with ANT+ technology.
- Bring the Garmin device within range 3 m (10 ft.) of the sensor.
- After you pair the first time, your Garmin device automatically recognizes the sensor each time it is activated. This process occurs automatically when you turn on the Garmin device and only takes a few seconds when the sensors are activated and functioning correctly.
- When paired, your Garmin device receives data from only your sensor, and you can go near other sensors.

Troubleshooting

Maximizing Battery Life

You can do several things to extend the battery life.

- Reduce the screen brightness (*Display and Brightness Settings*, page 38).
- Reduce the length of time before the backlight turns off (*Display and Brightness Settings*, page 38).
- Turn off the screen automatically when the backlight times out (*Display and Brightness Settings*, page 38).
- Use expedition mode (*Turning On Expedition Mode*, page 42).
- Turn off wireless connectivity (*Wi-Fi Settings*, page 39).
- Turn off Bluetooth technology (*Bluetooth Settings*, page 39).
- Turn off additional satellite systems (*Satellite Settings*, page 41).

Long-Term Storage

When you do not plan to use the device for several months, you should charge the battery to at least 50% before you store the device. You should store the device in a cool, dry place with temperatures around the typical household level. After storage, you should fully recharge the device before using it.

Restarting the Device

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

Hold the power button for approximately 15 seconds.

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.

If you know your maximum heart rate, you can use the table (*Heart Rate Zone Calculations*, page 52) 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.

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