

GARMIN®

Rino® 750/755t



Owner's Manual

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Introduction

⚠ WARNING

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

Device Overview



①	FRS/GMRS antenna
②	GPS antenna
③	Camera lens and flash (not available on all models)
④	Mini-USB port (under weather cap) 2.5 mm headset jack (under weather cap)
⑤	Battery cover D-ring
⑥	microSD® card slot (under battery door)

Battery Information

⚠ WARNING

The temperature rating for the device may exceed the usable range of some batteries. Alkaline batteries can rupture at high temperatures.

Do not use a sharp object to remove batteries.

⚠ CAUTION

Contact your local waste disposal department to properly recycle the batteries.

NOTICE

Alkaline batteries lose a significant amount of their capacity as the temperature decreases. Use lithium batteries when operating the device in below freezing conditions.

Maximizing Battery Life

You can do several things to extend the life of the batteries.

- Reduce the backlight brightness ([Adjusting the Backlight Brightness](#), page 14).
- Reduce the backlight timeout ([Display Settings](#), page 15).
- Use battery save mode ([Turning On Battery Save Mode](#), page 1).
- Decrease the map drawing speed ([Configuring the Maps](#), page 15).
- Turn off GLONASS ([GPS and GLONASS](#), page 15).

Turning On Battery Save Mode

You can use battery save mode to prolong the battery life.

From the app drawer, select **Setup > Display > Battery Save > On**.

In battery save mode, the screen shuts off when the backlight times out. You can select ① to turn on the screen.

Long-Term Storage

When you do not plan to use the device for several months, remove the batteries. Stored data is not lost when batteries are removed.

Installing the Lithium-ion Battery

- 1 Locate the Lithium-ion battery pack included in the product box.
- 2 Align the metal contacts on the battery pack with the metal contacts on the back of the device.
- 3 Press and hold the battery pack in place.



- 4 Turn the D-ring clockwise to secure the battery pack onto the device.

Charging the Battery Pack

NOTICE

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

Do not attempt to use the device to charge a battery that was not provided by Garmin®. Attempting to charge a battery that was not provided by Garmin can damage the device and void the warranty.

Before you can connect the straight connector of the USB cable to your device, you may need to remove optional mount accessories.

NOTE: The device does not charge when outside the approved temperature range ([Specifications](#), page 18).

You can charge the battery using a standard wall outlet or a USB port on your computer.

- 1 Pull up the weather cap ① from the mini-USB port ②.



- 2 Plug the small end of the USB cable into the mini-USB port.
- 3 Plug the USB end of the cable into an AC adapter or a computer USB port.
- 4 If necessary, plug the AC adapter into a standard wall outlet. When you connect the device to a power source, the device turns on.
- 5 Charge the battery completely.

Installing AA Batteries

Instead of the Lithium-Ion battery pack ([Installing the Lithium-ion Battery, page 1](#)), you can use four alkaline, NiMH, or lithium AA batteries with an optional AA battery pack (not included). This is useful when you are on the trail and cannot charge the Lithium-Ion battery pack. Use NiMH or lithium batteries for best results.

The AA battery pack contains two parts.

- 1 If necessary, turn the D-ring counter-clockwise, and pull up to remove the battery pack from the device.
- 2 Push down on the lever inside the AA battery pack ① to separate the two parts ②.



- 3 Insert four AA batteries, observing polarity.



- 4 Starting at the bottom, connect the two parts of the battery pack together and press until the top locks into place.
- 5 Align the metal contacts on the battery pack with the metal contacts on the back of the device.
- 6 Press and hold the battery pack in place.



- 7 Turn the D-ring clockwise to secure the battery pack onto the device.

Turning On the Device

Hold ①.

Device Operation

You can operate this device using a combination of hardware key and touchscreen actions.



①	Widgets	Swipe down to view widgets (Viewing Widgets, page 5).
②	(Call key)	Select to transmit an attention tone on the current channel. Hold to send an emergency alert (Emergency Alerts, page 4). You can customize the function of this key (Customizing the Keys, page 14).
③	(Power key)	Select to adjust the backlight. Hold to turn the device on or off.
④	PTT (Push-to-talk)	Hold to transmit on the current radio channel (Transmitting, page 3).
⑤	Main menu	Select the radio dashboard at the top of the main menu to launch the radio app. You can customize the dashboard on the main menu (Customizing the Dashboard on the Main Menu, page 14). Select the shortcuts to launch applications. You can customize the shortcuts on the main menu (Customizing the Main Menu, page 14).
⑥	Volume keys	Select to adjust the volume.
⑦	(App drawer)	Swipe up to open apps and Connect IQ™ apps.

Opening the App Drawer

The app drawer contains all of the applications used to operate this device.

- 1 From the main menu, swipe up from the bottom of the screen.
- 2 Swipe down from the top of the screen to return to the main menu without launching an application (optional).

Locking the Touchscreen

You can lock the screen to prevent inadvertent screen touches.

Select ① > .

Acquiring GPS Signals

When you turn on your navigation device, the GPS receiver must collect satellite data and establish the current location. The time required to acquire satellite signals varies based on several factors, including how far you are from the location where you last used your navigation device, whether you have a clear view of the sky, and how long it has been since you last used your navigation device. The first time you turn on your navigation device, it may take several minutes to acquire satellite signals.

- 1 Turn on the device.
- 2 Wait while the device locates satellites.
- 3 If necessary, go to an open area, away from tall buildings and trees.

in the status bar indicates the satellite signal strength. When at least half the bars are filled, the device is ready for navigation.

Radio

In the United States and Canada, this device uses Family Radio Service (FRS) and General Mobile Radio Service (GMRS) for two-way communication with other compatible radio devices.

In Australia, this device uses UHF Citizen Band Radio Service (UHF CBRS), and in New Zealand, this device uses UHF Personal Radio Service (PRS) for two-way communication with other compatible radio devices.

When communicating with other Garmin Rino devices, additional features are available.

Transmitting

To communicate with other Rino and FRS/GMRS or UHF CBRS/PRS radio users, you must be on the same channel and code ([Channels and Codes](#), page 3).

- 1 Hold **PTT**.
- 2 Speak into the front of the device.
- 3 After you are finished speaking, release **PTT**.

After you release PTT, the radio transmits your position information, and you cannot hear incoming transmissions until your transmission is complete. A roger tone sounds on your radio and on the radios receiving your transmission to confirm that the transmission is complete.

NOTE: You can change or disable the roger tone ([Setting the Device Tones](#), page 15).

The Radio App

Using the radio app, you can view information about the radio, control the radio channel and squelch codes, and customize the radio features.

Icons along the top of the radio page provide useful information about the radio.

- Indicates the activity status of the radio. When an arrow is pointing at the radio, the radio is receiving a transmission. When an arrow is pointing away from the radio, the radio is transmitting.
- The radio is ready to transmit position information ([Peer-to-Peer Positioning](#), page 4).
- Weather alerts are enabled ([Radio App Settings](#), page 5).
- The radio is muted ([Adjusting the Radio Volume](#), page 3).

Opening the Radio App

You can manage your channel, code, and other radio settings in the radio app.

From the app drawer, select **Radio**.

TIP: You can also select the radio dashboard at the top of the main menu to open the radio app.

Adjusting the Radio Volume

- 1 From any screen, select the volume keys to change the radio volume.
The volume screen appears.
- 2 Select to mute or restore the radio volume (optional).

Adjusting the Squelch Level

You can adjust the sensitivity level of the squelch to filter out background noise. When you adjust the squelch level higher, fewer weak background signals are heard.

- 1 When you hear unwanted background noise, from any screen, select the volume keys.
The volume screen appears.
- 2 Select under the **Squelch** bar.
You should increase the squelch level until you no longer hear the unwanted background noise.

Channels and Codes

To communicate with other Rino and GMRS or UHF CBRS/PRS radio users, you must be on the same channel.

Rino devices are compatible with third-party GMRS or UHF CBRS/PRS radios as long as the radios use standard GMRS or CBRS/PRS frequencies. A list of all frequencies used by this device is available in the product specifications ([Radio Frequency Charts](#), page 19).

NOTE: GMRS frequencies are regulated by the FCC in the United States. To transmit on GMRS frequencies, you must obtain a license from the FCC ([FCC Licensing Information](#), page 21).

US and Canada Channel Number	Channel Type
1 through 7 and 15 through 22	GMRS channels
15R through 22R	Repeater channels

Australia and New Zealand Channel Number	Channel Type
9 through 30, 39, 40, 49 through 60, 64 through 70, 79, 80	UHF CBRS/PRS channels
1R through 8R (31 through 38), 41R through 48R (71 through 78)	CBRS/PRS repeater channels*
5 and 35	Reserved channels (emergency)
22 and 23	Reserved channels (data only)
61 through 63	Reserved channels (for future use)

*Communication with another CB station is not authorized within operational range of a CB repeater

Squelch codes allow you to filter calls from other users on the same channel, so you hear only the radios you want to hear. The device has two different squelch modes, Continuous Tone Controlled Squelch System (CTCSS) and Digital-Coded Squelch (DCS). Calls on the channel that are not using the same squelch code in the same squelch mode are ignored.

NOTE: Squelch codes do not make your conversation private. Anyone on the same channel can hear your conversation.

Squelch Tone Mode	Squelch Codes
CTCSS	1 through 38
DCS	Listed in the product specifications (Radio Frequency Charts , page 19)

Selecting a Channel

- 1 From the radio app, select **Channel**.
- 2 Select or to change the channel.
- 3 Select .

Selecting a Squelch Code

- 1 From the radio app, select **Code CTCSS** or **Code DCS**.
- 2 Select or to change the code.
NOTE: Selecting Off allows you to hear everything on the channel.
- 3 Select .

NOTE: If you cannot hear calls on the same channel with the same code, verify all the radios are using the same squelch tone mode ([Changing the Squelch Tone Mode](#), page 3).

Changing the Squelch Tone Mode

This device can use two types of squelch tone modes, CTCSS and DCS. If you cannot hear calls on the same channel with the same code, make sure all the radios are using the same squelch tone mode.

- 1 From the radio app, select > **Radio Setup** > **Squelch Tone Mode**.

- 2 Select a squelch tone mode.

Monitoring a Channel for Activity

You can monitor a single channel for any activity, including static and weak voice signals. This is helpful if a signal is going out of range.

- 1 From the radio app, select the channel you want to monitor.
- 2 Select **Monitor**.




Scanning Channels

You can scan the channels for voice activity. This can help you find a channel with light activity for your group to use, or to find other radio users in the area.

From the radio app, select **Scan**.

Configuring the Scan List

By default, all available channels are included when scanning. You can configure the scan list to include only specific channels and squelch codes. Selecting specific channels and codes reduces the scan time and may help prevent a missed transmission.

- 1 From the radio app, select  > **Scanlist Setup**.
- 2 Select one or more channels to remove from the list.
- 3 To restrict the scan to the current squelch code, select  > **Scan Current Codes** (optional).
- 4 Select .


Repeater Channels

This device can use GMRS repeater channels in the US, and CBRS/PRS repeater channels in Australia and New Zealand. GMRS repeater channels are not available in Canada.


Repeater channels use repeaters, when available, to enable communication around obstacles or increase transmission distance. Position reporting is not allowed by the FCC on GMRS repeater channels.

Peer-to-Peer Positioning

You can send your location information to other Rino users using peer-to-peer positioning. Through peer-to-peer positioning, you can also track the movement of other Rino users on the same channel and code, and navigate to their locations.

Peer-to-peer positioning is enabled by default, and your position information is sent to other Rino users on the same channel and code when you press the PTT key (push-to-talk) or the  key (call).

NOTE: You can send location information only once every 30 seconds, due to FCC restrictions.

After you send location information, the  icon changes to a countdown timer so you know when location information can be sent again.

Polling Other Rino Users

You can request position updates for other Rino users who are in your saved contacts ([Saving a New Contact](#), page 4).

- 1 From the contacts app, select a saved contact.
- 2 Select **Poll Location**.

The location of the contact is updated on the map.

Editing Your Contact Info

From the radio app, you can change the symbol and name transmitted to other Rino users through peer-to-peer positioning.

- To change your name, select the name field.
- To change your symbol, select the symbol.

Contacts

You can save information about another Rino user as a contact. You can view location information and navigate to the location of users in your contacts list.


Saving a New Contact

The first time the device receives a peer-to-peer positioning signal from another Rino user, the new contact page appears. To save the contact details or navigate to the contact in the future, you must save the new contact in your contacts list.



From the new contact page, select **Save**.

The new contact is saved in your contacts list.

Viewing Contacts on the Map

- 1 From the main menu, select **Contacts**.
TIP: To open the contacts app from the radio app, select .
- 2 Select a contact.
- 3 Select **View Map**.

Navigating to a Contact



- 1 From the app drawer, select **Contacts**.
TIP: To open the contacts app from the radio app, select .
- 2 Select a contact.
- 3 Select **View Map > Go**.
- 4 Follow  to the contact's location.

Notes

You can send short notes to other Rino users on your current channel and code. You can review previously received notes from your contacts. You can edit and save favorite notes to quickly send them later.

NOTE: Notes transmit to all users on your current channel and code, not just to your saved contacts.

Creating, Saving, and Sending Notes

- 1 From the app drawer, select **Notes**.
TIP: To open the notes app from the radio app, select .
- 2 Select **Send Note > New Note**.
- 3 Enter the note text.
Due to FCC regulations, you can enter a maximum of 13 characters in a note.
- 4 Select .
- 5 Select an option:
 - To send the note without saving it, select **Send Note**.
 - To save the note without sending it, select **Save**.
 - To save the note and send it, select **Send and Save**.

Emergency Alerts

You can send an emergency alert to all Rino users on the current channel and code. Users can respond to an emergency alert to immediately begin navigating to your position.

Sending an Emergency Alert

To send emergency alerts to other Rino and GMRS or UHF CBRS/PRS radio users, you must be on the same channel.

- 1 Hold .
- 2 Select **Yes**.

The device sends an emergency alert every 60 seconds until another Rino user responds to the alert or you cancel the alert.

Responding to an Emergency Alert


To receive emergency alerts from other Rino and FRS/GMRS or UHF CBRS/PRS radio users, you must be on the same channel.

- 1 When you receive an emergency alert, select **Help**.

The device sends a response to the alert sender, and begins navigation to the sender's location automatically.

- 2 Follow ▲ to the sender's location.

Radio App Settings

From the radio app, select .

Turn Radio Off: Turns off the radio functionality. You cannot make or receive transmissions when the radio functionality is turned off.

Enable Weather Alert: Enables weather alert tones on the current channel or on all channels (*Advanced Radio Setup*, page 5).

Radio Setup

From the radio app, select  > **Radio Setup**.

Send Location: Enables sending position information when you transmit to other Rino users.

Allow Polling: Allows polling requests from other Rino users.

Power Level: Sets the power level used to transmit using GMRS channels in the US and Canada, and UHF CBRS/PRS channels in Australia and New Zealand. FRS channels in the US and Canada can transmit using only 1/2 W power. If the battery level is too low to support transmissions using higher power levels, the value of this setting decreases automatically.

Squelch Tone Mode: Sets the squelch mode (*Changing the Squelch Tone Mode*, page 3).

Repeater Channel: Enables the GMRS repeater channels in the US, and the CBRS/PRS repeater channels in Australia and New Zealand. GMRS repeater channels are not available in Canada (*Repeater Channels*, page 4).

Advanced Radio Setup

From the radio app, select  > **Radio Setup** > **Advanced Setup**.

Headset Type: Sets the type of accessory headset or microphone you are using with the device (*Headsets and Microphones*, page 17).

VOX Level: Sets the sensitivity of a connected Voice Operated Transmission (VOX) accessory. A lower VOX setting is recommended for quiet environments, and a higher VOX setting is recommended for noisy environments.

Weather Alert: Sets the channels that are monitored for weather alerts when weather alerts are enabled.

Connected Features

Connected features are available for your Rino 750/755t device when you connect the device to a compatible smartphone using Bluetooth® wireless technology. Some features require you to install the Garmin Connect™ Mobile app on the connected smartphone. Go to www.garmin.com/apps for more information.

Phone notifications: Displays phone notifications and messages on your Rino 750/755t device.

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

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

Software Updates: Allows you to update your device software.

EPO Downloads: Allows you to download an extended prediction orbit file to quickly locate GPS satellites and reduce the time it takes to calculate your position.

Live Geocache Data: Provides free and subscription-based services to view live geocache data from www.geocaching.com.

Weather: Allows you to view current weather conditions and weather forecasts. You can also view weather radar on the map.

Pairing Your Smartphone

- 1 Go to garmin.com/apps, and download the Garmin Connect Mobile app to your smartphone.
- 2 Bring your smartphone within 10 m (33 ft.) of your device.
- 3 On your device, from the app drawer, select **Setup** > **Bluetooth**, and follow the on-screen instructions.
- 4 From your smartphone, open the Garmin Connect Mobile app, and follow the on-screen instructions to connect a device.

The instructions are provided during the initial setup, or can be found in the Garmin Connect Mobile app help.

Phone notifications require a compatible smartphone equipped with Bluetooth Smart wireless technology. Go to garmin.com/ble for compatibility information.

Viewing Widgets

Your device is preloaded with a widget that displays the status of your connections and other information. Additional widgets can be added from the Connect IQ app (*Connect IQ Features*, page 5).

- 1 Swipe down from the top of the screen.
- 2 Swipe left or right to view more widgets.
- 3 Select ✕ to return to the previous screen.

Connect IQ Features

You can add Connect IQ features to your device from Garmin and other providers using the Garmin Connect Mobile app. You can customize your device with data fields, widgets, and apps.

Data Fields: Allow you to 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.

Widgets: Provide information at a glance, including sensor data and notifications.

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

Downloading Connect IQ Features

Before you can download Connect IQ features from the Garmin Connect Mobile app, you must pair your Rino device with your smartphone.

- 1 From the settings in the Garmin Connect Mobile app, select **Connect IQ Store**.
- 2 If necessary, select your device.
- 3 Select a Connect IQ feature.
- 4 Follow the on-screen instructions.

Weather

The weather app preloaded on this device provides weather information from two sources.

- When connected to a smartphone, the device provides current weather conditions, forecasts, and weather-radar information from the Internet.
- When set to monitor for weather broadcasts, the device can receive radio-transmitted Specific Area Message Encoding (SAME) county weather alerts.

Monitoring SAME Weather Alerts

SAME weather alerts allow you to receive radio-transmitted county weather alerts on your device.

NOTE: SAME weather alerts are available in the US only.

1 From the radio app, select **Weather**.

2 Select a channel.

You can receive weather alerts only on the selected weather channel.

When you receive a weather alert on the selected channel, a message appears containing the alert information.

The weather radio must remain on to receive weather alerts.

Opening the Weather App

From app drawer, select **Weather**.

Viewing Weather Conditions and Forecasts

To view forecast and weather radar information, you must connect your device to a smartphone with internet access.

To view forecast and weather radar information, your device must have an Internet connection. You can connect to a smartphone with Internet access (*Pairing Your Smartphone, page 5*).

To view SAME radio weather alerts on the map, you must monitor for the alerts (*Monitoring SAME Weather Alerts, page 5*).

You can view weather conditions and forecasts, and view weather radar on the map. When the map is dark, no weather data is loaded on the device, or the device is out of coverage. Weather data is not available for out-of-coverage areas on the map.


When you view a weather radar frame, the device displays the current time for the frame.


1 From the app drawer, select **Weather**.

2 Select an option:

- To view the weather radar on the map, select .

TIP: You can animate or pause the weather map. When you stop the animation, the device displays the most recent weather data.

- To view current weather conditions and forecasts, select .

- To view a county map with color-coded SAME watches and warnings, select .

TIP: You can drag the map to view available watches and warnings in the county, and you can select the information button to view more detailed information about an alert.

Viewing SAME Weather Alerts on the Map

To view SAME radio weather alerts on the map, you must monitor for the alerts (*Monitoring SAME Weather Alerts, page 5*).

You can view a county map with color-coded SAME watches and warnings.

1 From the weather app, select .

2 Drag the map to view available watches and warnings in the county (optional).

3 Select a shaded area and the name of the alert to view more detailed information about an alert (optional).

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 From the app drawer, select **Setup > Geocaching > Register Device**.

An activation code appears.

2 Follow the on-screen instructions.

3 Select **Confirm Registration**.

Connecting to Geocaching.com

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

- Connect to the Garmin Connect app.

Searching for a Geocache

You can search the geocaches loaded on your device. If you are connected to geocaching.com, you can search live geocache data and download geocaches.

NOTE: You can download detailed information for more than three geocaches per day with a premium membership. Go to www.geocaching.com for more information.

1 From the app drawer, select **Geocaching**.


2 Select  > **Q**.


3 Select an option:

- To search the geocaches loaded on your device by name, select **Spell Search**, and enter a search term.

- To search for geocaches near you or near another location, select **Search Near**, and select a location.

If you are connected to geocaching.com, the search results include live geocache data obtained by **GC Live Download** or by selecting the refresh button on the map.

- To search for nearby geocaches on the map, select .

If you are connected to geocaching.com, you can select  to refresh live geocaches that are near your location on the map.

- To search for live geocaches by code, select **GC Live Download**.

This feature allows you to download a specific geocache from geocaching.com when you know the geocache code.

4 Select  to filter the search results (optional).

5 Select a geocache.

The geocache details appear. If you selected a live geocache and you are connected, the device downloads the full geocache details to the internal storage, if necessary.

Navigating to a Geocache

1 Search for a geocache.

2 From the geocache details, select **Go**.

3 Navigate using the map (*Navigating with the Map, page 9*) or compass (*Navigating with the Compass, page 9*).

4 As you approach the location of the geocache, use the hints and clues to help you find the hidden cache (*Using Hints and Clues to find a Geocache, page 6*).

Using Hints and Clues to find a Geocache

You can use hints or clues, such as a description or coordinates, to help you find a geocache.

1 While navigating to a geocache, select the geocache name.

2 Select an option:

- To view details about the geocache, select **Description**.

- To view a clue about a geocache location, select **Hint**.

- To view latitude and longitude for a geocache, select **Coordinates**.

- To view feedback about the geocache from previous searchers, select **Logs**.

- To turn chirp™ searching on, select **chirp**.

Logging the Attempt

After you attempt to find a geocache, you can log your results.

- 1 While navigating to a geocache, from the app drawer, select **Geocaching > Log**.
- 2 Select **Found**, **Did Not Find**, **Needs Repair**, or **Unattempted**.
- 3 Select an option:
 - To begin navigation to the next geocache nearest you, select **Find Next Closest**.
 - To stop logging, select **Done**.
 - To enter a comment about looking for the cache or about the cache itself, select **Edit Comment**, enter a comment, and select ✓.

If you are connected to geocaching.com, the log is uploaded to your geocaching.com account automatically.

Filtering the Geocache List

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

- 1 From the app drawer, select **Geocaching > ▼**.
- 2 Select one or more option to filter:
 - To filter by a geocache category, such as puzzle or event, select **Type**.
 - To filter by the physical size of the geocache container, select **Size**.
 - To filter by **Unattempted**, **Did Not Find**, or **Found** geocaches, select **Status**.
 - To filter by the GPX file, live data, or pocket queries you have downloaded, select **Geocache Files**.
 - To filter by the difficulty level of finding the geocache, or the difficulty of the terrain, use the slider bars to adjust the difficulty levels.
- 3 Select ↶.

Saving a Custom Geocache Filter

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

- 1 From the app drawer, select **Setup > Geocaching > Filter Setup > Create Filter**.
- 2 Select items to filter.
- 3 Select ↶.

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 7*).

Editing a Custom Geocache Filter

- 1 From the app drawer, select **Setup > Geocaching > Filter Setup**.
- 2 Select a filter.
- 3 Select an item to edit.

Applying a Custom Filter to a Geocache List

After you create a filter, you can apply it to the geocache list.

- 1 From the geocache list, select 🗑️.
- 2 Select a filter.

Downloading Geocaches Using a Computer

You can load geocaches manually onto your device using a computer (*Transferring Files to Your Device, page 18*). 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 "pocket query" 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.

chirp

A chirp is a small Garmin accessory that is programmed and left in a geocache. You can use your device to find a chirp in a geocache. For more information about the chirp, see the *chirp Owner's Manual* at www.garmin.com.

Enabling chirp Searching

- 1 From the app drawer, select **Setup > Geocaching**.
- 2 Select **chirp Searching > On**.

Finding a Geocache with a chirp

- 1 With chirp searching enabled, navigate to a geocache.

When you are within approximately 10 m (33 ft.) of the geocache that contains a chirp, details about the chirp appear.
- 2 Select **Show Details**.
- 3 If necessary, select **Go** to navigate to the next stage of the geocache.

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.

From the app drawer, select **Setup > 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.

From the app drawer, select **Setup > Geocaching > Geocaching Live > Unregister Device**.

Activities

Your device can be used for indoor, outdoor, athletic, and fitness activities. When you start an activity, the device displays and records sensor data. You can save activities and share them with the Garmin Connect community.

You can also add Connect IQ activity apps to your device using your Garmin Connect account (*Connect IQ Features, page 5*).





When you are using an activity and you change some settings, such as data fields or units of measurement, the changes are saved automatically as part of the activity. These settings are loaded automatically the next time you switch the device to this activity.

Your device includes several preloaded activities with settings configured for that activity. You can customize the settings for each preloaded activity, and you can create new custom activities.

NOTE: By default, the device begins a recreational activity automatically when it is powered on.

Recording an Activity

By default, the device begins a recreational activity automatically when you turn it on.

- 1 Select an option:
 - To record the default recreational activity that began automatically when you turned on the device, proceed to step 4.
 - To record a different activity type, proceed to step 2.
- 2 From the app drawer, select **Activity Change**.
- 3 Select the activity name.
- 4 Begin your activity.
- 5 After you complete your activity, swipe down and select **Current Activity**.
- 6 Select .
- 7 Select an option:
 - To continue your activity, select .
 - To save your activity, select .
 - To delete your activity, select .

Creating a New Activity

If none of the preloaded activities fit the needs of your activity or trip, you can create a custom activity with its own unique settings and data fields.

- 1 From the app drawer, select **Setup > Activities > Create Activity**.
- 2 Customize your settings and data fields.

Editing an Activity Name

You can customize the name of an activity.

- 1 From the app drawer, select **Setup > Activities**.
- 2 Select an activity.
- 3 Select **Edit Name**.
- 4 Enter the new name.

Editing an Activity Icon

You can customize the icon displayed on an activity page.

- 1 From the app drawer, select **Setup > Activities**.
- 2 Select an activity.
- 3 Select **Edit Icon**.
- 4 Select an icon.



Deleting an Activity

NOTE: Before you can delete the active activity, you must activate a different activity. You cannot delete an activity while it is active.


- 1 From the app drawer, select **Setup > Activities**.
- 2 Select an activity.
- 3 Select **Delete**.

Customizing Your Activity Log


You can customize how your device displays and records activities.

- 1 From the app drawer, select **Activity History > Current Activity > **.
- 2 Select an option:
 - To change the color of the activity line on the map, select **Color**.
 - To display a line on the map indicating your activity, select **Show On Map**.
- 3 Select  > **Setup Activities > Record Method**.
- 4 Select an option:



- To record activities at a variable rate that creates an optimum representation of your activities, select **Auto**.
 - To record activities at a specified distance, select **Distance**.
 - To record activities at a specified time, select **Time**.
- 5 Select **Interval**.
 - 6 Complete an action:
 - If you selected **Auto** for the **Record Method**, select an option to record activities more or less often.

NOTE: Using the **Most Often** interval provides the most activity detail, but fills up the device memory quicker.
 - If you selected **Distance** or **Time** for the **Record Method**, enter a value, and select .

Pausing an Activity


- 1 From the app drawer, select **Current Activity**.
- 2 Select .

Saving the Current Activity


- 1 From the app drawer, select **Current Activity**.
- 2 Select .
- 3 Select the date and time field to rename the saved activity (optional).
- 4 Select  to save the activity.

Clearing the Current Activity


You can delete all recorded activity data since the start of the activity.

- 1 From the app drawer, select **Current Activity**.
- 2 Select  > **Clear**.


Deleting an Activity History

- 1 From the app drawer, select **Activity History**.
- 2 Select an activity.
- 3 Select  > **Delete**.



Viewing Activity Information

- 1 From the app drawer, select **Activity History**.
 - 2 Select an activity.
 - 3 Select .
- The beginning and the end of the trail are marked by flags.
- 4 Select the information bar at the top of the screen.
- Information about the activity appears.

Viewing the Elevation Plot of an Activity

- 1 From the app drawer, select **Activity History**.
- 2 Select an activity.
- 3 Select .

Saving a Location on an Activity

- 1 From the app drawer, select **Activity History**.
- 2 Select an activity.
- 3 Select .
- 4 Select a location on the activity.
- 5 Select the location information at the top of the map. Information about the location appears.
- 6 Select  > **OK**.

Opening Track Manager

You can customize, use, and archive tracks using the track manager.

From the app drawer, select **Track Manager**.

Navigation

You can navigate routes and tracks to a waypoint, geocache, or any saved location in the device. You can also navigate to photos taken on the device or stored photos with location information. You can use the map or the compass to navigate to your destination.

Navigating to a Destination

- 1 If necessary, select the activity to use while navigating (*Recording an Activity*, page 8).
- 2 From the app drawer, select **Where To?**.
- 3 Select a category.
- 4 Select a destination.
- 5 Select **Go**.
The map opens and your route is marked with a magenta line.
- 6 Navigate using the map (*Navigating with the Map*, page 9) or compass (*Navigating with the Compass*, page 9).

Finding a Location Near Another Location

- 1 If necessary, select the activity to use while navigating (*Recording an Activity*, page 8).
- 2 From the app drawer, select **Where To?**.
- 3 Select **≡ > Search Near**.
- 4 Select an option.
- 5 Select a location.

Stopping Navigation

From the map or compass, select **≡ > Stop Navigation**.

Navigating with the Map

- 1 Begin navigating to a destination (*Navigating to a Destination*, page 9).
- 2 From the app drawer, select **Map**.
A blue triangle represents your location on the map. As you travel, the blue triangle moves and leaves a track log (trail).
- 3 Complete one or more actions:
 - Select **📍**, and drag the map to view different areas.
 - Select **+** and **-** to zoom in and out of the map.
 - Select a location on the map (represented by a pin), and select the information bar at the top of the screen to view information about the selected location.

Navigating Using TracBack®

While navigating, 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 From the app drawer, select **Activity History > Current Activity > 📍 > TracBack**.
The map displays your route with a magenta line, start point, and end point.
- 2 Navigate using the map or the compass.

Optional Maps

You can use additional maps with the device, such as BirdsEye satellite imagery, BlueChart® g2, and City Navigator® detailed maps. Detailed maps may contain additional points of interest,

such as restaurants or marine services. For more information, go to <http://buy.garmin.com> or contact your Garmin dealer.

Finding an Address

You can use optional City Navigator maps to search for addresses (*Optional Maps*, page 9).

- 1 From the app drawer, select **Where To? > Addresses**.
- 2 Select the country or state, if necessary.
- 3 Enter the city or postal code.
NOTE: Not all map data provides postal code searching.
- 4 Select the city.
- 5 Enter the house number.
- 6 Enter the street.

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 9).
- 2 From the app drawer, select **Compass**.
- 3 Turn until **▲** points toward the top of the compass, and continue moving in that direction to the destination.

Calibrating the Compass

NOTICE

Calibrate the electronic compass outdoors. To improve heading accuracy, do not stand near objects that influence magnetic fields, such as vehicles, buildings, and overhead power lines.

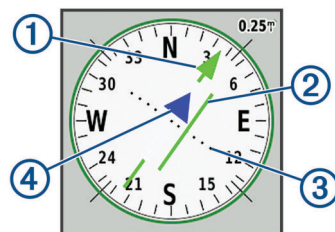
Your device was already calibrated at the factory, and the device uses automatic calibration by default. If you experience irregular compass behavior, for example, after moving long distances or after extreme temperature changes, you can manually calibrate the compass.

- 1 From the app drawer, select **Compass**.
- 2 Select **≡ > Calibrate Compass > Start**.
- 3 Follow the on-screen instructions.

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.

To enable the course pointer, from the app drawer, select **Setup > Heading > Go To Line (Pointer) > Course (CDI)**.



- | | |
|---|--|
| 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 headed to or from the next waypoint. |

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 From the app drawer, select **Sight 'N Go**.
- 2 Point the device at an object.
- 3 Select **Lock Direction > Set Course**.
- 4 Navigate using the compass.

Elevation Plot


By default, the elevation plot displays the elevation over the distance traveled. The top chart displays the full track, and the bottom chart can display a portion of the track. You can touch any point on either chart to view details about that point. You can customize the elevation settings (*Altimeter Settings*, page 16).

Navigating to a Point on the Elevation Plot


- 1 From the app drawer, select **Altimeter**.
- 2 Select an individual point on the plot.
- 3 Select .
- 4 Select **View Map**.
- 5 Navigate using the map (*Navigating with the Map*, page 9) or compass (*Navigating with the Compass*, page 9).

Changing the Plot Type

You can change the elevation plot to display pressure and elevation over time or distance.


- 1 From the app drawer, select **Altimeter**.
- 2 Select  > **Altimeter Setup > Plot Type**
- 3 Select plot type.

Resetting the Elevation Plot

- 1 From the app drawer, select **Altimeter**.
- 2 Select  > **Reset > Clear Current Activity > Clear**.

Calibrating the Barometric Altimeter

You can manually calibrate the barometric altimeter if you know the correct elevation or the correct barometric pressure.

- 1 Go to a location where the elevation or barometric pressure is known.
- 2 From the app drawer, select **Altimeter**.
- 3 Select  > **Altimeter Setup > Calibrate Altimeter**.
- 4 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*, page 18).

Marking Your Current Location as a Waypoint


You can mark your current location as a waypoint.

- 1 From the app drawer, select **Mark Waypoint**.
- 2 Select the symbol, the name, or the notes field to add details about the waypoint (optional).
- 3 Select  for more waypoint options (optional).
- 4 Select **Save**.


Finding a Waypoint

- 1 From the app drawer, select **Waypoint Manager**.
- 2 If necessary, select  to narrow the search.
- 3 If necessary, select an option:
 - Select **Spell Search** to search using the name of the waypoint.
 - Select **Select Symbol** to search using the symbol of the waypoint.
 - Select **Search Near** to search near a recently found location, another waypoint, your current location, or a point on the map.
 - Select **Sort** to view the list of waypoints based on nearest distance or alphabetical order.
- 4 Select a waypoint from the list.

Editing a Waypoint

- 1 From the app drawer, select **Waypoint Manager**.
- 2 Select a saved waypoint.
- 3 Select an item to edit, such as the name.
- 4 Enter the new information, and select .

Deleting a Waypoint

- 1 From the app drawer, select **Waypoint Manager**.
- 2 Select a waypoint.
- 3 Select  > **Delete**.

Increasing the Accuracy of a Waypoint Location

You can refine the accuracy of a waypoint location by averaging the location data. When averaging, the device takes several GPS readings at the same location and uses the average value to provide more accuracy.




- 1 From the app drawer, select **Waypoint Averaging**.
- 2 Select a waypoint.
- 3 Move to the waypoint location.
- 4 Select **Start**.
- 5 Follow the on-screen instructions.
- 6 When the confidence status bar reaches 100%, select **Save**.

For best results, collect four to eight samples for the waypoint, waiting at least 90 minutes between samples.

Projecting a Waypoint

You can save a new waypoint by projecting the distance and bearing from a saved waypoint to a new 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, then navigate to the new location after crossing the river or stream at a more suitable location.

- 1 From the app drawer, select **Waypoint Manager**.
- 2 Select a waypoint.
- 3 Select  > **Project Waypoint**.
- 4 Enter the bearing, and select .
- 5 Select a unit of measure.
- 6 Enter the distance, and select .
- 7 Select **Save**.

Routes

A route is a sequence of waypoints or locations that leads you to your final destination.

Creating a Route Using Route Planner

A route can include many waypoints, and it should include at least a starting point and one destination.

- 1 From the app drawer, select **Route Planner** > **Create Route** > **Select First Point**.
- 2 Select a category.
- 3 Select the first point in the route.
- 4 Select **Use**.
- 5 Select **Select Next Point** to add additional points to the route.
- 6 Select ↻ to save the route.

Creating a Route Using the Map

- 1 From the app drawer, select **Route Planner** > **Create Route** > **Select First Point** > **Use Map**.
- 2 Move the map to select a point.
- 3 Select **Use**.
- 4 Move the map, and select additional points on the map to add to the route (optional).
- 5 Select ✕.

Editing the Name of a Route

You can customize the name of a route to make it distinct.

- 1 From the app drawer, select **Route Planner**.
- 2 Select a route.
- 3 Select **Change Name**.
- 4 Enter the new name.

Editing a Route

You can add, remove, or rearrange points on a route.

- 1 From the app drawer, select **Route Planner**.
- 2 Select a route.
- 3 Select **Edit Route**.
- 4 Select a point.
- 5 Select an option:
 - To view the point on the map, select **Review**.
 - To change the order of the points on the route, select **Move Up** or **Move Down**.
 - To insert an additional point on the route, select **Insert**.
The additional point is inserted before the point you are editing.
 - To remove the point from the route, select **Remove**.
- 6 Select ↻ to save the route.

Viewing a Route on the Map

- 1 From the app drawer, select **Route Planner**.
- 2 Select a route.
- 3 Select **View Map**.

Deleting a Route

- 1 From the app drawer, select **Route Planner**.
- 2 Select a route.
- 3 Select **Delete Route**.

Viewing the Active Route

- 1 While navigating a route, from the app drawer, select **Active Route**.
- 2 Select a point in the route to view additional details.

Reversing a Route

You can switch the start and end points of your route to navigate the route in reverse.

- 1 From the app drawer, select **Route Planner**.
- 2 Select a route.
- 3 Select **Reverse Route**.

Viewing the Elevation Plot of a Route

The elevation plot displays the elevations for a route based on your route setting. If your device is configured for direct routing, the elevation plot displays the straight-line elevations between route points. If your device is configured for on-road routing, the elevation plot displays the elevations along the roads included in your route.

- 1 From the app drawer, select **Route Planner**.
- 2 Select a route.
- 3 Select **Elevation Plot**.

Garmin Adventures

You can create adventures to share your journeys with family, friends, and the Garmin community. Group related items together as an adventure. For example, you can create an adventure for your latest hiking trip. The adventure could contain the track log of the trip, photos of the trip, and geocaches you hunted. You can use BaseCamp™ to create and manage your adventures. For more information, go to <http://adventures.garmin.com>.

Sending Files to BaseCamp

- 1 Open BaseCamp.
- 2 Connect the device to your computer.

On Windows® computers, the device appears as a removable drive or a portable device, and the memory card may appear as a second removable drive. On Mac® computers, the device and memory card appear as mounted volumes.

NOTE: Some computers with multiple network drives may not display device drives properly. See your operating system documentation to learn how to map the drive.
- 3 Open the **Garmin** or memory card drive or volume.
- 4 Select an option:
 - Select an item from a connected device and drag it to My Collection or to a list.
 - From BaseCamp, select **Device** > **Receive from Device**, and select the device.

Creating an Adventure

Before you can create an adventure and send it to your device, you must download BaseCamp to your computer and transfer a track from your device to your computer (*[Sending Files to BaseCamp](#), page 11*).

- 1 Open BaseCamp.
- 2 Select **File** > **New** > **Garmin Adventure**.
- 3 Select a track, and select **Next**.
- 4 If necessary, add items from BaseCamp.
- 5 Complete the required fields to name and describe the adventure.

- 6 If you want to change the cover photo for the adventure, select **Change**, and select a different photo.
- 7 Select **Finish**.

Starting an Adventure

Before you can start an adventure, you must download an adventure from Garmin Connect (*Using Garmin Connect*, page 13), or send an adventure from BaseCamp to your device (*Sending Files to BaseCamp*, page 11).

When you start a saved adventure, the device follows the saved track and displays shortcuts to related information along the track, such as photos and waypoints.


- 1 From the app drawer, select **Adventures**.
- 2 Select an adventure.
- 3 Select **Start**.


Camera and Photos


NOTE: This feature is available only for models that include a camera.

When you take a photo, the geographic location is saved with the photo information. You can navigate to the location.

Taking a Photo

- 1 From the app drawer, select **Camera**.
- 2 Turn the device horizontally or vertically to change the orientation of the photo.
- 3 If necessary, select  to turn on the flash.

TIP: You can select Auto to use the flash only when the camera detects a low light scene.
- 4 If necessary, use two fingers on the touchscreen to zoom in or out.
- 5 Hold  to focus and hold the device still.

A white frame appears on the screen. The device focuses on the object inside of the frame. When the photo is in focus, the frame turns green.
- 6 Release  to take a photo.

Applications

Sending and Receiving Data Wirelessly

Before you can share data wirelessly, you must be within 3 m (10 ft.) of a compatible device.


Your device can send and receive data when paired with another compatible device using Bluetooth or ANT+® wireless technology. You can share waypoints, geocaches, routes, tracks, photos, and custom maps.

- 1 From the app drawer, select **Share Wirelessly**.
- 2 Select an option:
 - Select **Send**, and select a type of data.
 - Select **Receive** to receive data from another device. The other compatible device must be attempting to send data.
- 3 Follow the on-screen instructions.

Setting a Proximity Alarm

Proximity alarms alert you when you are within a specified range of a particular location.

- 1 From the app drawer, select **Proximity Alarms > Create Alarm**.
- 2 Select a category.
- 3 Select a location.
- 4 Select **Use**.

- 5 Enter a radius, and select .

When you enter an area with a proximity alarm, the device sounds a tone.



TIP: You can configure separate alarm tones for when you enter and leave an area.

Calculating the Size of an Area



- 1 From the app drawer, select **Area Calculation > Start**.
- 2 Walk around the perimeter of the area you want to calculate.
- 3 Select **Calculate** when finished.

Viewing the Calendar and Almanacs

You can view device activity, such as when a waypoint was saved. You can also view daily almanac information for the sun and moon, and hunting and fishing.




- 1 From the app drawer, select an option:
 - To view device activity for specific days, select **Calendar**.
 - To view the sunrise, sunset, moonrise, and moonset information, select **Sun and Moon**.
 - To view the predicted best times for hunting and fishing, select **Hunt and Fish**.
- 2 If necessary, select  or  to view a different month.
- 3 Select a day.

Setting an Alarm

- 1 From the app drawer, select **Alarm Clock**.
- 2 Select  and  to set the time.
- 3 Select **Turn Alarm On**.
- 4 Select an option.

The alarm sounds at the selected time. If the device is off at the alarm time, the device turns on and sounds the alarm.

Starting the Countdown Timer

- 1 From the app drawer, select **Alarm Clock >  > Timer**.
- 2 Select  and  to set the time.
- 3 Select **Start Timer**.


Opening the Stopwatch

From the app drawer, select **Stopwatch**.

Satellite Page


The satellite page shows your current location, GPS accuracy, satellite locations, and signal strength.

Changing the Satellite View

- 1 From the app drawer, select **Satellite**.
- 2 Select .
- 3 Select an option:
 - To orient the satellite view with your current track toward the top of the screen, select **Track Up**.
 - To show a unique color for each satellite and its signal strength bar, select **Multicolor**.



Turning Off GPS

You can turn off GPS on your device to stop tracking your location.

- 1 From the app drawer, select **Satellite**.
- 2 Select  > **Use With GPS Off**.


Simulating a Location

You can use the device with GPS off to perform maintenance on waypoints and routes, or to conserve battery life. You can set the location manually to view your current location on the map.

- 1 From the app drawer, select **Satellite** >  > **Use With GPS Off**.
- 2 Select  > **Set Location On Map**.
- 3 Select a location.
- 4 Select **Use**.

Controlling a VIRB® Action Camera

Before you can use the VIRB remote function, you must enable the remote control setting on your VIRB camera. For more information, see the owner's manual for your VIRB camera.

- 1 Turn on your VIRB camera, and enable the remote control setting.
- 2 On your device, from the app drawer, select **VIRB Remote**.
- 3 Wait while the device connects with your VIRB camera.
- 4 Select an option:
 - To record video, drag the slider bar up.
 - To take a photo, select .

Phone Notifications

NOTE: This feature is not available for all device models.

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

Hiding Notifications

Notifications are enabled by default when you pair your device with a compatible smartphone. You can hide notifications so they do not appear on your device screen.

- 1 From the app drawer, select **Setup** > **Bluetooth**.
- 2 If necessary, select **Bluetooth** if it is not turned on.
- 3 Select **Notifications** to turn off notifications on the device.

Fitness

History

History includes date, time, distance, calories, average speed or pace, ascent, descent, and optional ANT+ sensor information.

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


When the device memory is full, a message appears. The device does not automatically delete or overwrite your history. You can upload your history to Garmin Connect ([Using Garmin Connect](#), page 13) or BaseCamp ([Garmin Adventures](#), page 11) periodically to keep track of all your activity data.

Viewing an Activity History

From the history, you can view details about a previous activity.

- 1 From the app drawer, select **Activity History**.
- 2 Select an activity.

Deleting an Activity from Your History

- 1 From the app drawer, select **Activity History**.
- 2 Select an activity.
- 3 Select  > **Delete**.

Using Garmin Connect

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

Optional Fitness Accessories

You can use optional fitness accessories including a heart rate monitor or a cadence sensor with your device. These

accessories use ANT+ wireless technology to send data to the device.

Before you can use the fitness accessory with your device, you must install the accessory according to the instructions included with the accessory.

Pairing Your ANT+ Sensors

Before you can pair, you must put on the heart rate monitor or install the sensor.

Pairing is the connecting of ANT+ wireless sensors, for example, connecting a heart rate monitor with your device.

- 1 Bring the device within 3 m (10 ft.) of the sensor.

NOTE: Stay 10 m (30 ft.) away from other ANT+ sensors while pairing.

- 2 From the app drawer, select **Setup** > **ANT Sensor**.
- 3 Select your sensor.
- 4 Select **Search for New**.

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

Tips for Pairing ANT+ Accessories with Your Garmin Device

- Verify that the ANT+ accessory is compatible with your Garmin device.
- Before you pair the ANT+ accessory with your Garmin device, move 10 m (32.9 ft.) away from other ANT+ accessories.
- Bring the Garmin device within range 3 m (10 ft.) of the ANT+ accessory.
- After you pair the first time, your Garmin device automatically recognizes the ANT+ accessory each time it is activated. This process occurs automatically when you turn on the Garmin device and only takes a few seconds when the accessories are activated and functioning correctly.
- When paired, your Garmin device receives data from only your accessory, and you can go near other accessories.

About Heart Rate Zones

Many athletes use heart rate zones to measure and increase their cardiovascular strength and improve their level of fitness. A heart rate zone is a set range of heartbeats per minute. The five commonly accepted heart rate zones are numbered from 1 to 5 according to increasing intensity. Generally, heart rate zones are calculated based on percentages of your maximum heart rate.

Fitness Goals

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

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

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

If you do not know your maximum heart rate, use one of the calculators available on the Internet. Some gyms and health centers can provide a test that measures maximum heart rate. The default maximum heart rate is 220 minus your age.

Setting Your Heart Rate Zones

Before the device can determine your heart rate zones, you must set up your fitness user profile ([Setting Your Fitness User Profile](#), page 16).

You can manually adjust the heart rate zones according to your fitness goals ([Fitness Goals](#), page 13).

- 1 From the app drawer, select **Setup > Fitness > HR Zones**.
- 2 Enter the maximum and minimum heart rate for zone 5.
The maximum heart rate for each zone is based on the minimum heart rate of the previous zone. For example, if you enter 167 as a minimum heart rate for zone 5, the device uses 166 as the maximum rate for zone 4.
- 3 Enter your minimum heart rate for zones 4-1.

Customizing the Device

Adjusting the Backlight Brightness

You can adjust the backlight brightness to maximize the battery life. For a longer battery life, you should turn off the backlight when using the device in daylight.

- 1 Swipe down from the top of the screen.
- 2 Select **+** or **-**.

Customizing the Keys

You can customize some device key actions to provide quick access to menus, settings, apps, or other device functions.

- 1 From the app drawer, select **Setup > System > Configure Keys**.
- 2 Select **Power Key** or **Call Key**.
- 3 Select **Single Tap**, **Double Tap**, or **Hold**.
- 4 Select an option.

Customizing the Main Menu

You can change the layout of the main menu.

- 1 From the app drawer, select **Setup > Main Menu**.
- 2 Select an option:
 - To switch to a different page of the main menu, select **←** and **→**.
 - To change the number of items on a main menu page, select **+** and **-**.
 - To set the current page of the main menu as the starting page, select **≡ > Set as Start Page**.

Changing Items on the Main Menu

You can add, remove, and change the order of items on the main menu.

- 1 From the app drawer, select **Setup > Main Menu**.
- 2 If necessary, increase the number of items on the main menu, or switch to a different page of the main menu ([Customizing the Dashboard on the Main Menu, page 14](#)).
- 3 Select an option:
 - To add an item to the main menu, select **Add Item Here**, and select an item.
 - To move an item on the main menu, select the item, and select **Move Item Here**.
 - To delete an item on the main menu, select the item, and select **✕**.

Customizing the Dashboard on the Main Menu

By default, radio information appears in the dashboard on the main menu. You can change the information shown in this dashboard.

- 1 From the app drawer, select **Setup > Main Menu**.
- 2 Select **≡ > Change Dashboards**.
- 3 Select a dashboard.

Customizing the App Drawer

You can add, remove, and change the order of items in the app drawer.

- 1 From the app drawer, select **Setup > Main Menu > ≡ > Setup Drawer**.
- 2 Select an option:
 - To add an item to the app drawer, select **Add** and select an item.
 - To move an item in the app drawer, select the item, and select another item to switch positions.
 - To delete an item from the app drawer, select the item, and select **✕**.

NOTE: Some items cannot be deleted from the app drawer.

Adding a Shortcut to the Main Menu

You can add shortcuts to the application drawer, or to the main menu or favorites dashboard when the device is in classic mode. You can create shortcuts to enable the device to perform multiple actions simultaneously. If the shortcut does not appear in the list, you can create it ([Creating a Shortcut, page 14](#)).

- 1 From the app drawer, select **Setup > Shortcuts**.
- 2 Select the shortcut.
- 3 Select **Add to Menu**.
- 4 Select **Main Menu**, **Drawer**, or **Favorites**.

Creating a Shortcut

- 1 From the app drawer, select **Setup > Shortcuts > Create Shortcut**.
- 2 Select **Name**, and enter a name.
- 3 Select **Icon**, and select an icon.
- 4 Select an option:
 - To add a shortcut to a specific device setting, select **Setup**.
 - To add a shortcut that begins navigation to a specific waypoint, select **Where To?**.
 - To add a shortcut to a specific application, select **Application**.
 - To allow a shortcut to quickly change your activity, select **Activity**.

Custom Data Fields and Dashboards

Data fields display information about your location or other specified data. Dashboards are a custom grouping of data that can be helpful to a specific or general task, such as geocaching.

Enabling the Map Data Fields

You can show custom data fields on the map.

- 1 From the map, select **≡ > Setup Map > Dashboard**.
- 2 Select **Large Data Field** or **Small Data Fields**.
- 3 If necessary, on the map, select **▼** at the top of the screen to show the data fields.

Customizing the Data Fields



Before you can change the map data fields, you must enable them ([Enabling the Map Data Fields, page 14](#)).

You can customize the data fields and dashboards of the map, compass, trip computer, elevation plot, and status pages.

- 1 From a page that displays data fields, select a data field.
- 2 Select a data field category and a data field.

Customizing Dashboards

- 1 Select a page.

- 2 Select an option:
 - From the map, select  > **Setup Map > Dashboard**.
 - From the compass or trip computer, select  > **Change Dashboard**.
- 3 Select a dashboard.

Setting the Touchscreen Sensitivity

You can adjust the touchscreen sensitivity to suit your activity.

- 1 From the app drawer, select **Setup > Accessibility > Touch Sensitivity**.
- 2 Select an option.

TIP: You can test the touchscreen settings with and without gloves based on your activity.

Display Settings

From the app drawer, select **Setup > Display**.

Backlight Timeout: Sets the length of time before the backlight turns off.

Orientation Lock: Locks the screen orientation in portrait or landscape mode, or allows the screen to change orientation automatically based on the device orientation.

Screen Capture: Allows you to save the image on the device screen.

Battery Save: Saves the battery power and prolongs the battery life by turning off the screen when the backlight times out (*Turning On Battery Save Mode, page 1*).

Configuring the Maps

You can enable or disable the maps currently loaded on the device.

From the app drawer, select **Setup > Map > Configure Maps**.

Map Settings

From the app drawer, select **Setup > Map**.

Orientation: Adjusts how the map is shown on the page. The North Up option shows north at the top of the page. The Track Up option shows your current direction of travel toward the top of the page. The Automotive Mode option shows an automotive perspective with the direction of travel at the top.

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

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

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

Advanced Map Settings

From the app drawer, select **Setup > Map > Advanced Setup**.

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

Shaded Relief: Shows detail relief on the map (if available) or turns off shading.

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

Zoom Controls: Sets the auto zoom and the location of the buttons in portrait or landscape mode.

Zoom Levels: Adjusts the zoom level at which map items appear. The map items do not appear when the map zoom level is higher than the selected level.

Text Size: Sets the text size for map items.

System Settings

From the app drawer, select **Setup > System**.

Satellite: Allows you to adjust the satellite system settings (*Satellite Settings, page 15*).

Text 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.

Interface: Sets the communication interface mode to Garmin Spanner, Garmin Serial, NMEA In/Out, Text Out, RTCM, or MTP.

Configure Keys: Sets the power key or user key as a shortcut to a menu, setting, or application.

Mode: Sets the home screen to look like a classic outdoor handheld device home screen or an activity-based home screen.

NOTE: This device is set to Classic by default. Changing this setting to Activity significantly alters the user interface, radio features, and activity recording features.

Battery Type: Sets the battery type for the device.

Satellite Settings

From the app drawer, select **Setup > System > Satellite**.

Satellite System: Allows you to set the satellite system to GPS, GPS + GLONASS (*GPS and GLONASS, page 15*), or Demo Mode (GPS off).

WAAS/EGNOS: Sets the satellite system to Wide Area Augmentation System/European Geostationary Navigation Overlay Service (WAAS/EGNOS). For more information about WAAS, go to www.garmin.com/aboutGPS/waas.html.

GPS and GLONASS

The default satellite system setting is GPS + GLONASS, which offers increased performance in challenging environments and faster position acquisition. Using GPS and GLONASS can reduce battery life more quickly than using GPS only.

Appearance Settings

From the app drawer, select **Setup > Appearance**.

Mode: Sets a light background, a dark background, or automatically switches between the two based on the sunrise and sunset time for your current location.

Day Color: Sets the color for the selections made when in day mode.

Night Color: Sets the color for the selections made when in night mode.

Landscape Controls: Places the controls on the left or right side of the screen when in landscape mode.

Setting the Device Tones

You can customize tones for messages, keys, turn warnings, and alarms.

- 1 From the app drawer, select **Setup > Tones > Tones > On**.
- 2 Select a tone for each audible type.

Routing Settings

The available routing settings vary based on the activity selected.

From the app drawer, select **Setup > Routing**.

Activity: Sets an activity used for transportation while routing. The device calculates routes optimized for the type of activity you are doing.

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

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

Off Route 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.

Route Transitions: Sets how the device routes from one point on the route to the next. This setting is available only for some activities. The Distance option routes you to the next point on the route when you are within a specified distance of your current point.

Heading Settings

You can customize the compass settings.

From the app drawer, select **Setup > Heading**.

Display: Sets the type of directional heading shown on the compass.

North Reference: Sets the north reference used on the compass.

Go To Line (Pointer): Allows you to use the bearing pointer that points in the direction of your destination, or use the course pointer that shows your relationship to the course line leading to the destination.

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.

Calibrate Compass: Allows you to calibrate the compass if you experience irregular compass behavior, for example, after moving long distances or after extreme temperature changes (*Calibrating the Compass*, page 9).

Altimeter Settings

From the app drawer, select **Setup > Altimeter**.

Auto Calibration: Automatically calibrates the altimeter each time an activity is started. The device continues to automatically calibrate the altimeter as long as the device receives GPS signals and auto calibrate continuous is on.

Barometer Mode: Variable Elevation allows the barometer to measure changes in elevation while you are moving. Fixed Elevation assumes the device is stationary at a fixed elevation, so the barometric pressure should only change due to weather.

Plot Type: Allows you to view elevation changes over a period of time or distance, barometric pressure over a period of time, or ambient pressure changes over a period of time.

Calibrate Altimeter: Allows you to calibrate the barometric altimeter when you know the correct elevation or the correct barometric pressure (*Calibrating the Barometric Altimeter*, page 10).

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.

From the app drawer, select **Setup > 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

You can customize units of measure for distance and speed, elevation, depth, temperature, pressure, and vertical speed.

- 1 From the app drawer, select **Setup > Units**.
- 2 Select a measurement type.
- 3 Select a unit of measure.

Time Settings

From the app drawer, select **Setup > Time**.

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

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

Geocaching Settings

From the app drawer, select **Setup > Geocaching**.

Geocaching Live: Sets the device to display or hide live geocache data.

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

chirp Searching: Allows the device to search for a geocache containing a chirp accessory (*Enabling chirp Searching*, page 7).

Program chirp: Programs the chirp accessory. See the *chirp Owner's Manual* at www.garmin.com.

Filter Setup: Allows you to create and save custom filters for geocaches (*Saving a Custom Geocache Filter*, page 7).

Found Geocaches: Allows you to edit the number of geocaches found. This number automatically increases when you log a find (*Logging the Attempt*, page 7).

ANT+ Sensor Settings

For more information about optional fitness accessories, see *Optional Fitness Accessories*, page 13.

Fitness Settings

From the app drawer, select **Setup > Fitness**.

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

Activity Type: Sets the fitness activity to hiking, running, cycling, and more. This allows your activity to appear as the correct type when you transfer it to Garmin Connect.

User: Sets the user profile information (*Setting Your Fitness User Profile*, page 16).

HR Zones: Sets the five heart rate zones for fitness activities.

Setting Your Fitness User Profile

The device uses information that you enter about yourself to calculate accurate data. You can modify user profile information such as gender, age, weight, height, and lifetime athlete (*About Lifetime Athletes*, page 16).

- 1 From the app drawer, select **Setup > Fitness > User**.
- 2 Modify the settings.

About Lifetime Athletes

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

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 From the app drawer, select **Setup > Fitness > Auto Lap**.
- 2 Enter a value, and select ✓.

Marine Settings

From the app drawer, select **Setup > Marine**.

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.

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

- 1 From the app drawer, select **Setup > Marine > Marine Alarm Setup**.
- 2 Select an alarm type.
- 3 Select **On**.
- 4 Enter a distance, and select **✓**.

Resetting Data and Settings

You can reset trip data, delete all waypoints, clear the current track, or restore default values.

- 1 From the app drawer, select **Setup > Reset**.
- 2 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 the settings for your current activity type to the factory default values, select **Reset Activity Settings**.
 - To restore all device settings to the factory default values, select **Reset All Settings**.
NOTE: Resetting all settings clears all geocaching activity from your device.

Restoring Default Values for Specific Settings

You can restore the default values for specific settings categories.

- 1 From the app drawer, select **Setup**.
- 2 Select a category to restore.
- 3 Select **≡ > Restore Defaults**.

Restoring Default Values for Specific Page Settings

You can restore the default values for settings for the map, compass, trip computer, and elevation plot.

- 1 Open the page for which you will restore the settings.
- 2 Select **≡ > Restore Defaults**.

Restoring All Default Settings

You can reset all settings back to the factory default settings.

From the app drawer, select **Setup > Reset > Reset All Settings > Reset**.

NOTE: Restoring all default settings on your device clears your geocaching registration and all default activities.

Device Information

Attaching the Carabiner Clip

- 1 Position the carabiner clip ① in the slots on the mounting spine ② of the device.



- 2 Slide the carabiner clip up until it locks in place.

Headsets and Microphones

This device is compatible with many headset and microphone accessories that connect using a 2.5 mm jack ([Device Overview, page 1](#)).

By default, the device is set to detect automatically when a new headset or microphone is connected.

NOTE: When connecting a headset with a push to talk (PTT) button, you must press the PTT button after connecting the headset for the device to detect the headset.

This device is compatible with Voice Operated Transmission (VOX) devices. These accessories allow you to use the device hands-free by transmitting automatically when a voice is detected. You can adjust the sensitivity level of connected VOX devices ([Advanced Radio Setup, page 5](#)).

Product Updates

On your computer, install Garmin Express™ (www.garmin.com/express). On your smartphone, install the Garmin Connect Mobile app.

This provides easy access to these services for Garmin devices:

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

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, and insect repellents that can damage plastic components and finishes.

Secure the weather cap tightly to prevent damage to the USB port.

Cleaning the Device

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

After cleaning, allow the device to dry completely.

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.

Water Immersion

NOTICE

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

Data Management

NOTE: The device is not compatible with Windows 95, 98, Me, Windows NT®, and Mac OS 10.3 and earlier.

File Types

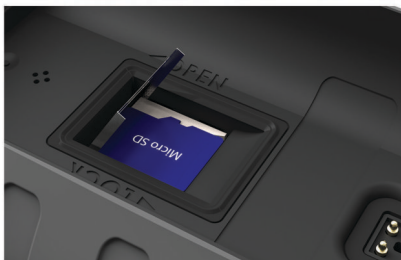
The handheld device supports these file types:

- Files from BaseCamp or HomePort™. Go to www.garmin.com/trip_planning.
- GPX route, track, and waypoint files.
- GPX geocache files (*Downloading Geocaches Using a Computer*, page 7).
- JPEG photo files.
- GPI custom POI files from the Garmin POI Loader. Go to www.garmin.com/products/poiloader.
- FIT files for exporting to Garmin Connect.

Installing a Memory Card

You can install a microSD memory card for additional storage or pre-loaded maps.

- Turn the D-ring counter-clockwise, and pull up to remove the battery pack.
- In the battery compartment, slide the card holder toward the top of the device, and lift up.



- Place the memory card with the contacts facing down.
- Close the card holder.
- Slide the card holder toward the bottom of the device to lock it.
- Replace the battery pack, and turn the D-ring clockwise.

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.

- Pull up the weather cap from the USB port.
- Plug the small end of the USB cable into the USB port on the device.
- Plug the large end of the USB cable into a computer USB port.

Your device and memory card (optional) appear as removable drives in My Computer on Windows computers and as mounted volumes on Mac computers.

Transferring Files to Your Device

- Connect the device to your computer.

On Windows computers, the device appears as a removable drive or a portable device, and the memory card may appear

as a second removable drive. On Mac computers, the device and memory card appear as mounted volumes.

NOTE: Some computers with multiple network drives may not display device drives properly. See your operating system documentation to learn how to map the drive.

- On your computer, open the file browser.
- Select a file.
- Select **Edit > Copy**.
- Open the portable device, drive, or volume for the device or memory card.
- Browse to a folder.
- 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.

- Open the **Garmin** drive or volume.
- If necessary, open a folder or volume.
- Select a file.
- Press the **Delete** key on your keyboard.

NOTE: If you are using an Apple® computer, you must empty the Trash folder to completely remove the files.

Disconnecting the USB Cable

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

- Complete an action:
 - For Windows computers, select the **Safely Remove Hardware** icon in the system tray, and select your device.
 - For Apple computers, select the device, and select **File > Eject**.
- Disconnect the cable from your computer.

Specifications

Battery type	Lithium-ion battery pack or four AA batteries (NiMH, alkaline, or lithium)
Battery life	Lithium-ion battery pack: up to 14 hours of typical usage. AA batteries: up to 18 hours of typical usage.
Water rating	IEC 60529 IPX7*
Operating temperature range	From -20° to 55°C (from -4° to 131°F)
Charging temperature range	From 0° to 40°C (from 32° to 104°F)
Communication frequency/protocol	2.4 GHz ANT+ wireless communications protocol Bluetooth enabled device

Radio channels	1 through 7: GMRS and FRS channels (requires FCC license in the United States) 8 through 14: FRS channels 15 through 22: GMRS channels (requires FCC license in the United States) 15R through 22R: GMRS repeater channels (requires FCC license in the United States) (position reporting is not allowed by the FCC on repeater channels) Channels WX 1 through 7: weather radio channels
Radio output power	FRS: 0.5 W GMRS: 0.5, 2.0, or 5.0 W (5.0 W is available only in the US, and only when using the Lithium-ion battery pack.)

*The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/waterrating.

Radio Frequency Charts

FRS/GMRS Radio Frequencies

Rino models sold in the United States and Canada use these frequencies.

NOTE: If you plan to use this device in countries outside of the United States or Canada, you should check with the government of that country for any restrictions on FRS or GMRS use.

Channel Number	Transmit Frequency (MHz)	Receive Frequency (MHz)	Channel Description
1	462.5625	462.5625	GMRS Interstitial 1, FRS 1
2	462.5875	462.5875	GMRS Interstitial 2, FRS 2
3	462.6125	462.6125	GMRS Interstitial 3, FRS 3
4	462.6375	462.6375	GMRS Interstitial 4, FRS 4
5	462.6625	462.6625	GMRS Interstitial 5, FRS 5
6	462.6875	462.6875	GMRS Interstitial 6, FRS 6
7	462.7125	462.7125	GMRS Interstitial 7, FRS 7
8	467.5625	467.5625	FRS-8
9	467.5875	467.5875	FRS-9
10	467.6125	467.6125	FRS-10
11	467.6375	467.6375	FRS-11
12	467.6625	467.6625	FRS-12
13	467.6875	467.6875	FRS-13
14	467.7125	467.7125	FRS-14
15	462.5500	462.5500	GMRS Primary 1
16	462.5750	462.5750	GMRS Primary 2
17	462.6000	462.6000	GMRS Primary 3
18	462.6250	462.6250	GMRS Primary 4
19	462.6500	462.6500	GMRS Primary 5
20	462.6750	462.6750	GMRS Primary 6
21	462.7000	462.7000	GMRS Primary 7
22	462.7250	462.7250	GMRS Primary 8
15R	467.5500	462.5500	GMRS Repeater 1
16R	467.5750	462.5750	GMRS Repeater 2
17R	467.6000	462.6000	GMRS Repeater 3
18R	467.6250	462.6250	GMRS Repeater 4
19R	467.6500	462.6500	GMRS Repeater 5
20R	467.6750	462.6750	GMRS Repeater 6

Channel Number	Transmit Frequency (MHz)	Receive Frequency (MHz)	Channel Description
21R	467.7000	462.7000	GMRS Repeater 7
22R	467.7250	462.7250	GMRS Repeater 8

CBRS/PRS Radio Frequencies

Rino models sold in Australia and New Zealand use these frequencies.

NOTE: If you plan to use this device in countries outside of Australia or New Zealand, you should check with the government of that country for any restrictions on CBRS or PRS use.

Channel Number	Frequency (MHz)	Channel Description
1	476.4250	Repeater channel
2	476.4500	Repeater channel
3	476.4750	Repeater channel
4	476.5000	Repeater channel
5	476.5250	Emergency repeater channel: reserved
6	476.5500	Repeater channel
7	476.5750	Repeater channel
8	476.6000	Repeater channel
9	476.6250	General chat channel
10	476.6500	4WD clubs or convoys and national parks
11	476.6750	Call channel
12	476.7000	General chat channel
13	476.7250	General chat channel
14	476.7500	General chat channel
15	476.7750	General chat channel
16	476.8000	General chat channel
17	476.8250	General chat channel
18	476.8500	Caravanners and campers convoy channel
19	476.8750	General chat channel
20	476.9000	General chat channel
21	476.9250	General chat channel
22	476.9500	Telemetry and telecommand channel. GPS position data is transmitted on this channel, and audio transmissions are not possible.
23	476.9750	Telemetry and telecommand channel. GPS position data is transmitted on this channel, and audio transmissions are not possible.
24	477.0000	General chat channel
25	477.0250	General chat channel
26	477.0500	General chat channel
27	477.0750	General chat channel
28	477.1000	General chat channel
29	477.1250	Road safety channel: Pacify Hwy/Mwy between Brisbane (QLD) and Sydney (NSW)
30	477.1500	General chat channel
31	477.1750	Repeater input
32	477.2000	Repeater input
33	477.2250	Repeater input
34	477.2500	Repeater input
35	477.2750	Emergency repeater input: reserved

Channel Number	Frequency (MHz)	Channel Description
36	477.3000	Repeater input
37	477.3250	Repeater input
38	477.3500	Repeater input
39	477.3750	General chat channel
40	477.4000	Road safety channel Australia wide
41	476.4375	Repeater channel
42	476.4625	Repeater channel
43	476.4875	Repeater channel
44	476.5125	Repeater channel
45	476.5375	Repeater channel
46	476.5625	Repeater channel
47	476.5875	Repeater channel
48	476.6125	Repeater channel
49	476.6375	General chat channel
50	476.6625	General chat channel
51	476.6875	General chat channel
52	476.7125	General chat channel
53	476.7375	General chat channel
54	476.7625	General chat channel
55	476.7875	General chat channel
56	476.8125	General chat channel
57	476.8375	General chat channel
58	476.8625	General chat channel
59	476.8875	General chat channel
60	476.9125	General chat channel
61	N/A	Reserved for future expansion
62	N/A	Reserved for future expansion
63	N/A	Reserved for future expansion
64	477.0125	General chat channel
65	477.0375	General chat channel
66	477.0625	General chat channel
67	477.0875	General chat channel
68	477.1125	General chat channel
69	477.1375	General chat channel
70	477.1625	General chat channel
71	477.1875	Repeater input
72	477.2125	Repeater input
73	477.2375	Repeater input
74	477.2625	Repeater input
75	477.2875	Repeater input
76	477.3125	Repeater input
77	477.3375	Repeater input
78	477.3625	Repeater input
79	477.3875	General chat channel
80	477.4125	General chat channel

Weather Radio Frequencies

Weather radio broadcasts are available in the United States only.

Channel Number	Receive Frequency (MHz)	Channel Description
WX 1	162.550	NOAA 1 (Weather radio)
WX 2	162.400	NOAA 2 (Weather radio)
WX 3	162.475	NOAA 3 (Weather radio)
WX 4	162.425	NOAA 4 (Weather radio)
WX 5	162.450	NOAA 5 (Weather radio)

Channel Number	Receive Frequency (MHz)	Channel Description
WX 6	162.500	NOAA 6 (Weather radio)
WX 7	162.525	NOAA 7 (Weather radio)

CTCSS Frequencies

CTCSS frequencies and squelch codes may differ in some radios from third-party manufacturers. For the best results, you should compare CTCSS frequency information from your third-party radio with the information in this table..

Channel Number	Frequency (MHz)
0	199.5
1	67.0
2	71.9
3	74.4
4	77.0
5	79.7
6	82.5
7	85.4
8	88.5
9	91.5
10	94.8
11	97.4
12	100.0
13	103.5
14	107.2
15	110.9
16	114.8
17	118.8
18	123.0
19	127.3
20	131.8
21	136.5
22	141.3
23	146.2
24	151.4
25	156.7
26	162.2
27	167.9
28	173.8
29	179.9
30	186.2
31	192.8
32	203.5
33	210.7
34	218.1
35	225.7
36	233.6
37	241.8
38	250.3

DCS Frequency Chart

DCS uses a digital signature and is not frequency-based. DCS squelch codes may differ in some radios from third-party manufacturers. For the best results, you should compare the DCS-code information for your third-party radio with the information in this table..

DCS Code	DCS Code	DCS Code
23	162	466
25	165	503

DCS Code	DCS Code	DCS Code
26	172	506
31	174	516
32	205	532
43	271	546
47	306	565
51	311	606
54	315	612
65	331	624
71	343	627
72	346	631
73	351	632
74	364	654
114	365	662
115	371	664
116	411	703
125	412	712
131	413	723
132	423	731
134	431	732
143	432	734
152	445	743
155	464	754
156	465	

FCC Licensing Information

The Rino two-way radio operates on General Mobile Radio Service (GMRS) frequencies regulated by the Federal Communications Commission (FCC) in the United States. Operation on the GMRS frequencies is subject to rules as specified in 47 CFR Part 95.

In order to transmit on GMRS frequencies, you are required to obtain a license from the FCC. An individual 18 years of age or older, who is not a representative of a foreign government, is eligible to apply for a GMRS license. To apply for a GMRS license, you need FCC Form 605 (605 Main Form and Schedule F) and FCC Form 159. Download the application forms from the FCC web site at www.fcc.gov/Forms/. You can also request them through the FCC forms hotline at 1-800-418-FORM (1-800-418-3676).

File Form 605 online at <http://wireless.fcc.gov/uls/>. A filing fee is associated with this application.

For information on fees, go to the FCC fee information web page at <http://wireless.fcc.gov/feesforms/index.html> or at <http://wireless.fcc.gov/services/personal/generalmobile/>.

For questions concerning the license application, contact the FCC at 1-888-Call-FCC (1-888-225-5322).

No license is required to operate on GMRS channels in Canada. However, GMRS repeater channels are not approved for use by the Canadian government.

For use in countries outside of the U.S. and Canada, please check with that government for any restrictions of FRS or GMRS use.

Viewing Device Information

You can view the unit ID, software version, regulatory information, and license agreement.

From the app drawer, select **Setup > About**.

Troubleshooting

My handheld device is not responding

If your handheld device stops responding, you can reset the device.

NOTE: This does not erase any of your data or settings.

- 1 Remove the batteries.
- 2 Reinstall the batteries (*Installing the Lithium-ion Battery, page 1*).

My device does not turn on

- Verify the battery is installed correctly (*Installing the Lithium-ion Battery, page 1*).
- Fully charge the battery (*Charging the Battery Pack, page 1*).

The battery gauge does not seem accurate

- 1 Allow the device to fully discharge.
- 2 Fully charge the device without interrupting the charge cycle.

My phone will not connect to the device

- Select **Setup > Bluetooth**.
The Bluetooth option must be enabled.
- Enable Bluetooth wireless technology on your phone and bring your phone within 10 m (33 ft.) of the device.
- Go to www.garmin.com/bluetooth for more help.

My device is not acquiring satellite signals

- Verify the GPS simulator is turned off (*Simulating a Location, page 12*).
- Take your device out of parking garages and away from tall buildings and trees.
- Remain stationary for several minutes.

My device does not go into mass storage mode automatically

If your device is connected to the computer but does not go into mass storage mode automatically, you might have loaded a corrupt file.

- 1 Disconnect the device from your computer.
- 2 Turn off the device.
- 3 Hold **Ⓢ** while you connect the device to your computer.
- 4 Continue holding **Ⓢ** for 30 seconds or until the device goes into mass storage mode.

I need to reset all settings back to factory default values

Select **Setup > Reset > Reset All Settings**.

Appendix

tempe™

The tempe is an ANT+ wireless temperature sensor. You can attach the sensor to a secure strap or loop where it is exposed to ambient air, and therefore, provides a consistent source of accurate temperature data. You must pair the tempe with your device to display temperature data from the tempe.

Data Fields

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

24 hr Max. Temperature: The maximum temperature recorded in the last 24 hours.

24 hr Min. Temperature: The minimum temperature recorded in the last 24 hours.

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

Activity Distance: The distance traveled for the current track.

Alarm Timer: The current time of the countdown timer.

Ambient Pressure: The uncalibrated environmental 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 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: The average cadence for the current activity.

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

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

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

Barometer: The calibrated current pressure.

Battery Level: The remaining battery power.

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

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

Calories: The amount of total calories burned.

Compass Hdg.: 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.

Depth: The depth of the water. Your device must be connected to a NMEA® 0183 or NMEA 2000® device capable of acquiring the water depth.

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

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

Descent - Total: The total elevation distance descended 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.

Elev Abv Ground: The altitude of your current location above ground level (if maps contain sufficient elevation information).

Elevation: The altitude of your current location above or below sea 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 for every 10 ft. (3 m) you climb you travel 200 ft. (60 m), 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 current range of your 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: 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: 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 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.

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.

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

Temperature: The temperature of the air. Your body temperature affects the temperature sensor.

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 current 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.

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

Vert 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.

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

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