

Monterra[™] Owner's Manual



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Table of Contents

Introduction	1	Trip Computer	5
Device Overview	1	Resetting the Trip Computer	6
Battery Information	1	Photos and Video	6
Installing the Battery Pack	1	Taking a Photo	6
Installing AA Batteries	2	Taking a Panoramic Photo	6
Turning On the Device	2	Recording a Video	6
Setting Up the Device	2	Viewing Photos and Videos	6
Using the Touchscreen	2	Geocaches	6
Home Screen	2	Downloading Geocaches	6
Viewing Notifications	2	Filtering the Geocache List	6
Enabling GPS	2	Creating and Saving a Geocache Filter	6
Updating the Device Software	2	Applying a Saved Geocache Filter	6
Locking and Unlocking the Touchscreen	2	Editing a Custom Geocache Filter	6
Waypoints, Routes, and Tracks	2	Navigating to a Geocache	6
Waypoints	2	Logging the Attempt	6
Creating a Waypoint	2	chirp™	6
Marking a Waypoint Using the Map	2	Finding a Geocache with a chirp Device	7
Finding a Waypoint	2	Applications	7
Editing a Waypoint	3	Installing Applications	7
Deleting a Waypoint	3	Setting a Proximity Alarm	7
Increasing the Accuracy of a Waypoint Location	3	Using the Flashlight	7
Projecting a Waypoint	3	Calculating the Size of an Area	7
Where To? Menu	3	Satellite Page	7
Optional Maps	3	Changing the Satellite View	7
Finding a Location by Name	3	Listening to NOAA® Weather Radio	7
Finding a Location Near Another Location	3	Listening to FM Radio	7
Finding an Address	3	Viewing Weather Data	7
Routes	3	Customizing the Device	7
Creating a Route	3	Adding Shortcuts and Widgets to the Home Screen	7
Editing the Name of a Route	3	Rotating the Screen	8
Viewing a Route on the Map	3	Locking the Screen Orientation	8
Editing a Route	3	Map Settings	8
Deleting a Route	3	Custom Data Fields and Dashboards	8
Viewing the Active Route	3	Enabling the Map Data Fields	8
Reversing a Route	3	Customizing the Data Fields	8
Tracks	4	Customizing Dashboards	8
Pausing Track Recording	4	Tracks Settings	8
Customizing Your Track Log	4	Routing Settings	8
Following Your Track Log	4	Changing the Units of Measure	8
Saving the Current Track	4	Position Format Settings	8
Viewing the Elevation Plot of a Track	4	Heading Settings	9
Changing the Track Color	4	Altimeter Settings	9
Archiving Saved Tracks	4	Proximity Alarms Settings	9
Clearing the Current Track	4	Connecting to a Wireless Network	9
Deleting a Track	4	Pairing Bluetooth® Devices	9
Garmin Adventures	4	Pairing Your ANT+™ Sensors	9
Sending Files to BaseCamp	4	Enabling Airplane Mode	9
Creating an Adventure	4	Profiles	9
Starting an Adventure	4	Selecting a Profile	9
Navigation	4	Creating a Custom Profile	9
Navigating to a Destination	5	Editing a Profile Name	10
Stopping Navigation	5	Deleting a Profile	10
Navigating with the Map	5	Sound Settings	10
Navigating a Driving Route	5	Display Settings	10
Navigating with the Compass	5	Adding Accounts	10
Calibrating the Compass	5	Changing the Lock Screen Security	10
Course Pointer	5	Language and Input Settings	10
Navigating with Sight 'N Go	5	Backing Up Your Data	10
Elevation Plot	5	Resetting to Factory Defaults	10
Navigating to a Point on the Plot	5	Date and Time Settings	10
Changing the Plot Type	5	Device Information	11
Resetting the Elevation Plot	5	Battery Information	11
Calibrating the Barometric Altimeter	5	Maximizing the Battery Life	11
		Saving Energy While Charging the Device	11

Long-Term Storage	11
Device Care	11
Cleaning the Device	11
Cleaning the Touchscreen	11
Water Immersion	11
Specifications	11
Data Management	11
File Types	11
Installing a Memory Card	11
Connecting the Device to Your Computer	12
Transferring Files to Your Device	12
Deleting Files	12
Disconnecting the USB Cable	12
Troubleshooting	12
Viewing Device Information	12
Updating the Software	12
Resetting the Device	12
Registering Your Device	12
Getting More Information	12
Appendix	12
Optional Maps	12
tempe	12
Index	13

Introduction

⚠ WARNING

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

Device Overview



①	Camera
②	Microphone
③	Power key
④	LED flash
⑤	Volume keys
⑥	Battery cover D-ring
⑦	Waterproof speaker
⑧	Headphone jack (under weather cap)
⑨	Mini-USB port (under weather cap)

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.

Installing the Battery Pack

⚠ WARNING

This product contains a lithium-ion battery. To prevent the possibility of personal injury or product damage caused by battery exposure to extreme heat, store the device out of direct sunlight.

- 1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
- 2 Locate the metal contacts on the end of the lithium-ion battery.
- 3 Insert the battery into the compartment, contacts first.



- 4 Press the battery into place.
- 5 Replace the battery cover, and turn the D-ring clockwise.

Charging the Battery Pack

⚠ WARNING

This product contains a lithium-ion battery. To prevent the possibility of personal injury or product damage caused by battery exposure to extreme heat, store the device out of direct sunlight.

NOTICE

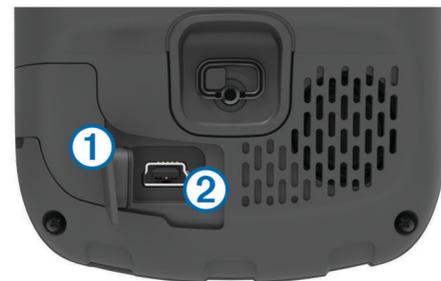
To prevent corrosion, thoroughly dry the mini-USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

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.

NOTE: The battery will not charge when outside the temperature range of 32°F to 113°F (0°C to 45°C).

You can charge the battery using the included AC adapter. You can also use an optional battery charger accessory. Go to www.garmin.com/outdoor for more information.

- 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 the AC adapter.
- 4 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.
The battery charge level is indicated in the notification bar.
- 6 Remove the USB cable and fully close the weather cap.

Removing the Battery Pack

⚠ WARNING

Do not use a sharp object to remove batteries.

- 1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
- 2 Pull up on the side of the battery pack closest to the power button.

Installing AA Batteries

Instead of the battery pack (page 1), you can use alkaline, NiMH, or lithium AA batteries. This is useful when you are on the trail and cannot charge the battery pack. Use NiMH or lithium batteries for best results.

NOTE: Standard alkaline batteries are not recommended when using the camera feature.

- 1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
- 2 Insert three AA batteries, observing polarity.



- 3 Replace the battery cover, and turn the D-ring clockwise.

Turning On the Device

Select .

Setting Up the Device

The first time you turn on the device, you must set up basic device settings. You can also set up accounts.

- 1 Turn on the device.
- 2 Follow the on-screen instructions.

Using the Touchscreen

- Drag or swipe your finger across the screen to pan or scroll the screen.
- Pinch two fingers together to zoom out.
- Spread two fingers to zoom in.
- Make each touchscreen selection a separate action.
- Select  to return to the previous page.
- Select  to return to the home screen.
- Select  to view additional options for the page you are viewing.

Home Screen



①	Swipe down to view notifications.
②	Enter text to start a search.
③	Swipe left and right to switch pages. Hold to customize shortcuts, widgets, or wallpaper.
④	Hold to drag shortcuts in or out of the dock.
⑤	Touch to view all installed apps.

Viewing Notifications

- 1 Swipe down from the top of the screen.
The list of notifications appears.
- 2 Select an option:
 - To launch the action or app mentioned in the notification, select the notification.
 - To dismiss a notification, swipe the notification to the right.

Enabling GPS

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

Select **Settings > Location services > GPS satellites**.

Updating the Device Software

Before you can update the device software, you must be connected to a wireless network.

The device checks for software updates periodically when it is connected to a wireless network. A notification appears when a software update is available. You can also check for updates manually.

- 1 Select an option:
 - When a software update notification appears, swipe down from the top of the screen, and select **New software update available**.
 - To check for an update manually, select **Settings > About Monterra > System updates**.

The device checks for available updates. This may take several minutes.

- 2 Select **Download**, and follow the on-screen instructions.

Locking and Unlocking the Touchscreen

You can lock the screen to prevent inadvertent screen touches.

- 1 Hold the power key.
- 2 Select **Touch Lock** to toggle the screen lock on or off.

Waypoints, Routes, and Tracks

Waypoints

Waypoints are locations you record and store in the device.

Creating a Waypoint

You can save your current location as a waypoint.

- 1 Select **Mark Waypoint**.
- 2 If necessary, select **Edit** to change the name or other waypoint data.
- 3 Select **Save**.

Marking a Waypoint Using the Map

- 1 Select **Map**.
- 2 Select a location on the map.
- 3 Select the information bar at the top of the screen.
- 4 Select .

Finding a Waypoint

- 1 Select **Waypoint Manager**.
- 2 Select an option:
 - Select **Q** to search using the name of the waypoint.
 - Select **All**, and select a symbol type 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.

3 Select a waypoint from the list.

Editing a Waypoint

Before you can edit a waypoint, you must create a waypoint.

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

Deleting a Waypoint

- 1 Select **Waypoint Manager**.
- 2 Select a waypoint.
- 3 Select  > **Delete**.

Increasing the Accuracy of a Waypoint Location

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

- 1 Select **Waypoint Manager**.
- 2 Select a waypoint.
- 3 Select  > **Average Location**.
- 4 Move to the waypoint location.
- 5 Select **Start**.
- 6 Follow the on-screen instructions.
- 7 When the confidence status bar reaches 100%, select **Save**.

For best results, collect 4 to 8 samples for the waypoint, waiting at least 90 minutes between samples.

Projecting a Waypoint

You can create a new location by projecting the distance and bearing from a marked location to a new location.

- 1 Select **Waypoint Manager**.
- 2 Select a waypoint.
- 3 Select  > **Project New Waypoint**.
- 4 Enter the bearing and distance.
- 5 Select **Save**.

Where To? Menu

You can use the **Where To?** menu to find a destination to navigate to. Not all **Where To?** categories are available in all areas and maps.

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 a Location by Name

You can search for map POIs and saved items, such as waypoints, tracks, or geocaches, by name.

- 1 Select **Where To?** > **Q**.
- 2 Enter the name or part of the name.
- 3 Select a location from the search results.

Finding a Location Near Another Location

- 1 Select **Where To?** >  > **Search Near**.
- 2 Select an option.
- 3 Select a location.

Finding an Address

You can use optional City Navigator maps to search for addresses.

- 1 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.

Routes

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

Creating a Route

- 1 Select **Route Planner** > **+** > **+**.
- 2 Select a category.
- 3 Select the first point in the route.
- 4 Select **Use**.
- 5 Select **+** to add additional points to the route.
- 6 Select  to save the route.

Editing the Name of a Route

- 1 Select **Route Planner**.
- 2 Select a route.
- 3 Select **Name**.
- 4 Enter the new name.

Viewing a Route on the Map

- 1 Select **Route Planner**.
- 2 Select a route.
- 3 Swipe left to view the map.

Editing a Route

- 1 Select **Route Planner**.
- 2 Select a route.
- 3 Select an option:
 - To view a point on the map, select a point.
 - To change the order of points on the route, drag points up or down in the list.
 - To add an additional point to the route, select **+**.
 - To remove a point from the route, hold the point, and select .

Deleting a Route

- 1 Select **Route Planner**.
- 2 Hold a route.
- 3 Select .

Viewing the Active Route

- 1 While navigating a route, swipe down from the top of the screen.
- 2 Select .

Reversing a Route

- 1 Select **Route Planner**.
- 2 Select a route.
- 3 Select  > **Reverse Route**.

Tracks

A track is a recording of your path. The track log contains information about points along the recorded path, including time, location, and elevation for each point.

Pausing Track Recording

- 1 Swipe down from the top of the screen.
The list of notifications appears.
- 2 Select  next to **Track Recording On**.

Customizing Your Track Log

You can customize how your device displays and records tracks.

- 1 Select **Settings > Tracks**.
- 2 Select **Record** to toggle track logging on or off.
- 3 Select **Show on Map** to toggle the track log on the map on or off.
When this feature is enabled, a line on the map indicates your track.
- 4 Select **Color**, and select a color for the track log on the map.
- 5 Select **Record Method**.
- 6 Select an option:
 - To record tracks at a variable rate that creates an optimum representation of your tracks, select **Auto**.
 - To record tracks at a specified distance, select **Distance**.
 - To record tracks at a specified time, select **Time**.
- 7 Select **Interval**.
- 8 Complete an action:
 - If you selected **Auto** for the **Record Method**, select an option to record tracks more or less often.
NOTE: Using the **Most Often** interval provides the most track detail, but fills up the device memory quicker.
 - If you selected **Distance** or **Time** for the **Record Method**, enter a value, and select **OK**.

Following Your Track Log

While navigating, you can navigate back to the beginning of your track log. This can be helpful when finding your way back to camp or the trail head.

- 1 Select **Track Manager > Current Track > View Map > TracBack**.
The map displays your route with a magenta line, start point, and end point.
- 2 Navigate using the map or the compass.

Saving the Current Track

- 1 Select **Track Manager > Current Track**.
- 2 Select  > **Save**.

Viewing the Elevation Plot of a Track

- 1 Select **Track Manager**.
- 2 Select a track.
- 3 Swipe right to view the elevation plot page.

Changing the Track Color

You can change the color of a track to improve the view on the map or compare it to another track.

- 1 Select **Track Manager**.
- 2 Select a track.
- 3 Select **Track Color**.
- 4 Select a color.

Archiving Saved Tracks

You can archive saved tracks to save memory space.

- 1 Select **Settings > Tracks > Auto Archive**.
- 2 Select **When Full, Daily, or Weekly**.

Clearing the Current Track

Select **Track Manager > Current Track > **.

Deleting a Track

- 1 Select **Track Manager**.
- 2 Select a track.
- 3 Select  > **Delete**.

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 ([page 4](#)).

- 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 send an adventure from BaseCamp to your device.

- 1 Select **Adventures**.
- 2 Select an adventure.
- 3 Select **Start**.

Navigation

You can navigate routes and tracks, to a waypoint, geocache, photo, or any saved location in the device. You can use the map or the compass to navigate to your destination.

Navigating to a Destination

- 1 Select **Where To?**.
- 2 Select a category.
- 3 Select a destination.
- 4 Select **Go**.

The map opens with your route marked with a magenta line.

- 5 Navigate using the map (page 5) or compass (page 5).

Stopping Navigation

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

Navigating with the Map

- 1 Begin navigating to a destination (page 5).
- 2 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:
 - 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 a Driving Route

Before you can navigate street routes, you must purchase and load City Navigator maps.

- 1 Select **Settings > Profiles > Automotive > Make Current**.
- 2 Select a destination.
- 3 Navigate using the map.

Turns appear in the information bar along the top of the map. Audible tones signal turns in the route.

Navigating with the Compass

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

- 1 Begin navigating to a destination (page 5).
- 2 Select **Compass**.
- 3 Turn until \blacktriangle 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.

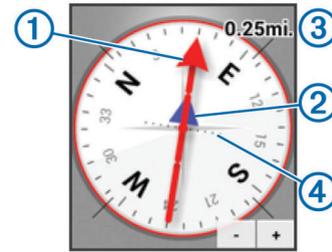
Your device was already calibrated at the factory, and the device uses automatic calibration by default. If you experience irregular compass behavior, for example, after moving long distances or after extreme temperature changes, you can manually calibrate the compass.

- 1 Select **Compass > \equiv > Calibrate Compass > Start**.
- 2 Follow the on-screen instructions.

Course Pointer

The course pointer is most useful if you are navigating on water or where there are no major obstacles in your path. It also can also help you avoid hazards to either side of the course, such as shoals or submerged rocks.

To enable the course pointer, from the compass, select **Settings > Heading Settings > Go to Line/Pointer > Course (CDI)**.



The course pointer ① indicates your relationship to the course line leading to the destination. The course deviation indicator (CDI) ② provides the indication of drift (right or left) from the course. The scale ③ refers to the distance between dots ④ on the course deviation indicator, which tell you how far off course you are.

Navigating with Sight 'N Go

You can point the device at an object in the distance, lock in the direction, and navigate to the object.

- 1 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. To customize the elevation settings, see page 9. You can touch any point on the plot to view details about that point.

Navigating to a Point on the Plot

- 1 Select **Elevation Plot**.
- 2 Select an individual point on the plot.
Details about the point appear.
- 3 Select \equiv > **View Map**.
- 4 Select the information bar at the top of the screen.
- 5 Select **Go**.
The map opens with your route marked with a magenta line.
- 6 Navigate using the map (page 5) or compass (page 5).

Changing the Plot Type

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

- 1 Select **Elevation Plot > \equiv > Change Plot Type**.
- 2 Select an option.

Resetting the Elevation Plot

Select **Elevation Plot > \equiv > Reset**.

Calibrating the Barometric Altimeter

Your device was already calibrated at the factory, and the device uses automatic calibration by default. 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 Select **Elevation Plot > \equiv > Calibrate Altimeter**.
- 3 Follow the on-screen instructions.

Trip Computer

The trip computer displays your current speed, average speed, maximum speed, trip odometer, and other helpful statistics. You can customize the trip computer layout, dashboard, and data fields.

From the main menu, select **Trip Computer**.

Resetting the Trip Computer

For accurate information, reset the trip information before beginning a trip.

Select **Trip Computer** >  > **Reset** > **OK**.

Photos and Video

You can take photos and videos with your device. If GPS is enabled ([page 2](#)), the geographic location is automatically saved in the photo or video information.

Taking a Photo

- 1 Select **Camera**.
- 2 Turn the device horizontally or vertically to change the orientation of the photo.
- 3 If necessary, select one or more options to customize the photo:
 - To change shooting options, including flash, exposure, white balance, scene, or location information, select .
 - To zoom in or out, use the slider.
 - To change the focus, select a part of the image.
The device focuses on the area inside of the square brackets. When the photo is in focus, the square brackets turn green.
- 4 Select  to take a photo.

Taking a Panoramic Photo

You can use panorama mode to capture extra wide photos, such as landscapes.

- 1 Select **Camera** > .
- 2 Aim the camera at the left or right edge of the shot.
- 3 Select .
- 4 Hold the device level, and slowly pan the device in one direction, from left to right or from right to left.
If you pan too quickly, a red frame flashes around the viewfinder to indicate you should slow down.
 fills in with blue as you pan. The brighter blue area indicates the area currently shown in the viewfinder.
- 5 Select an option:
 - To stop capturing the panorama at a specific point, select .
 - To capture a full panorama, continue panning until  is completely blue.

The device displays a preview of the photo and a progress bar as it saves the photo.

Recording a Video

- 1 Select **Camera** > .
- 2 Select .
- 3 Record a video.
- 4 When you have finished recording the video, select .

Viewing Photos and Videos

- 1 Select **Gallery**.
- 2 If necessary, select an album.
- 3 Select a photo or video.
Videos are indicated by .
- 4 Swipe left or right to view additional photos and videos in the album.

Geocaches

A geocache is like a hidden treasure. Geocaching is when you hunt for hidden treasures using GPS coordinates posted online by those hiding the geocache.

Downloading Geocaches

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

Filtering the Geocache List

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

- 1 Select **Geocaching** > .
- 2 Customize the settings, and select .

The filtered list of geocaches appears.

- 3 Select  to save the filter (optional).

Creating and Saving a Geocache Filter

You can create and save custom filters for geocaches based on specific factors. After you set up the filter, you can apply it in the geocache list.

- 1 Select **Geocaching** >  > **Manage Filters** > .
- 2 Enter a name.
- 3 Select filter options, and select .

Applying a Saved Geocache Filter

Before you can apply a geocache filter, you must create and save a geocache filter.

- 1 From the geocache list, select **All Geocaches**.
- 2 Select a filter.

Editing a Custom Geocache Filter

- 1 Select **Settings** > **Geocaching** >  > **Manage Filters**.
- 2 Select a filter.
- 3 Select an item to edit.

Navigating to a Geocache

- 1 Select **Geocaching**.
- 2 Select a geocache.
- 3 Select **Go**.
- 4 Navigate using the map ([page 5](#)) or compass ([page 5](#)).

Logging the Attempt

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

- 1 Select **Geocaching** > **Log**.
- 2 Select **Found**, **Did Not Find**, **Needs Maintenance**, or **Unattempted**.
- 3 Enter a comment and rate the geocache (optional).
- 4 Select **Log**.

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.

Finding a Geocache with a chirp Device

When you enable chirp searching, the device alerts you when it detects nearby chirp devices. This is useful when searching for geocaches that contain a chirp device.

- 1 Select **chirp**.
- 2 Select the toggle switch to enable chirp searching.
- 3 Navigate to a geocache that contains a chirp device (page 6).

When you are within 33 ft. (10 m) of the geocache that contains a chirp device, an alert appears on your device.

- 4 Select **Details** to download and view information from the chirp device.
- 5 If available, select **Go** to navigate to the next stage of the geocache.

Applications

Installing Applications

Before you can purchase or install applications on your device, you must add a Google™ account to your device (page 10).

You can install additional applications from Google Play™.

- 1 Select the Play Store icon.
- 2 If necessary, follow the on-screen instructions to set up your account.

Setting a Proximity Alarm

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

- 1 Select **Proximity Alarms** > **+**.
- 2 Select a category.
- 3 Select a location.
- 4 Select **Use**.
- 5 Enter a radius, and select **Done**.

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

Using the Flashlight

NOTE: Using the flashlight can reduce battery life.

Select **Flashlight** > .

Calculating the Size of an Area

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

Satellite Page

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

Changing the Satellite View

- 1 Select **Satellite** > .
- 2 If necessary, select **Track Up** to orient the satellite view with your current track toward the top of the screen.
- 3 If necessary, select **Multicolor** to assign a specific color to the satellite and to the signal strength bar of that satellite.

Listening to NOAA® Weather Radio

You can listen to National Oceanic and Atmospheric Administration (NOAA) weather broadcasts using the NOAA radio built into your device. When the NOAA radio is receiving a broadcast, the device notifies you of weather alerts with a popup message and a notification.

- 1 Pull up the weather cap from the headphone jack, and connect wired headphones.

The headphone wire acts as an antenna to receive the broadcast. The radio does not function if headphones are not connected.

- 2 Select **Weather Radio**.

- 3 Select an option:

- To scan for the strongest broadcast automatically, select **Auto Scan**.
 - To select a channel manually, disable auto scan, and select  and .
 - To switch between the built-in speaker and the headphones, select .
- NOTE:** The headphones must remain connected to receive the broadcast.
- To turn the audio broadcast on or off, select .
- The device continues to receive weather alerts when the audio broadcast is disabled.
- To turn off the radio, select .
- Turning off the radio disables both the broadcast and weather alerts.

Listening to FM Radio

- 1 Pull up the weather cap from the headphone jack, and connect wired headphones.

The headphone wire acts as an antenna to receive the broadcast. The radio does not function if headphones are not connected.

- 2 Select **FM Radio**.

- 3 Select an option:

- To tune the next or previous available station, select  or .
 - To tune a specific frequency, drag the tuner.
 - To add a preset frequency, select **+**.
 - To tune a preset frequency, select the frequency.
 - To switch between the built-in speaker and the headphones, select .
- NOTE:** The headphones must remain connected to receive the broadcast.
- To turn off the radio, select .

Viewing Weather Data

Before you can view the temperature you must pair your device with a tempe™ wireless temperature sensor (page 12).

You can view weather data from the device sensors, including the temperature, UV index, barometric pressure, and ambient pressure.

Select **Weather**.

Customizing the Device

Adding Shortcuts and Widgets to the Home Screen

You can add application shortcuts and widgets to any of the home screen pages. Widgets are tools that provide quick access to information, basic application functions, or device settings.

- 1 From the home screen, swipe left or right to select a home screen page.
- 2 Select .

- 3 Swipe left or right to view additional applications and widgets.
- 4 Hold an application or widget, and drag it to the desired location on the home screen.

Rotating the Screen

Rotate your device to view in horizontal (landscape) or vertical (portrait) mode.



Locking the Screen Orientation

The default setting allows the screen to change orientation automatically based on the device orientation. You can lock the screen orientation in portrait or landscape mode.

- 1 Select **Settings > Display > Screen Orientation Lock**.
- 2 Select an option.

Map Settings

Select **Settings > Map**.

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

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

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

Layers: Sets the types of information that appears on the map page.

Auto Zoom: Automatically selects the appropriate zoom level for optimal use on your map.

Zoom Buttons: Shows or hides the zoom buttons on the map. When the zoom buttons are hidden, you must use touchscreen gestures to zoom in and out (page 2).

Detail: Sets the level of detail on the map. More detail may cause the map to draw slower.

Vehicle: Changes the icon that represents your position on the map. Go to www.garmin.com to download more vehicle icons.

Map Information: Enables or disables the maps currently loaded on the device.

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.

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

Enabling the Map Data Fields

- 1 Select **Map > Setup Map > Dashboard**.
- 2 Select **Small Data Fields** or **Large Data Fields**.

Customizing the Data Fields

Before you can change the map data fields, you must enable them (page 8).

- 1 Select a page.
- 2 Select a data field.
- 3 Select a data field category and a data field.

For example, select **Trip Data > Speed - Moving Avg.**

Customizing Dashboards

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

Tracks Settings

Select **Settings > Tracks**.

Recording: Turns track recording on or off.

Show on Map: Shows or hides the track log on the map.

Color: Changes the color of the track line on the map.

Record Method: Sets a track recording method. **Auto** records the tracks at a variable rate to create an optimum representation of your tracks.

Interval: Sets a track log recording rate. Recording points more frequently creates a more-detailed track, but fills the track log faster.

Auto Archive: Sets an automatic archive method to organize your tracks. Tracks are saved and cleared automatically.

Routing Settings

The device calculates routes optimized for the type of activity you are doing. The available routing settings vary based on the activity selected.

Select **Settings > Routing**.

Navigation Voice: Sets the voice and language for navigation prompts.

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

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

Lock on Road: Locks the blue triangle, which represents your position on the map, onto the nearest road.

Changing the Units of Measure

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

- 1 Select **Settings > Units**.
- 2 Select a measurement type.
- 3 Select a unit of measure.

Position Format Settings

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

Select **Settings > 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.

Heading Settings

You can customize the compass settings.

Select **Settings > Heading Settings**.

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. See [page 5](#).

Altimeter Settings

Select **Settings > Altimeter**.

Auto Calibration: Automatically calibrates the altimeter each time the device is turned on. The device continues to automatically calibrate the altimeter as long as the device has GPS signals acquired.

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.

Pressure Trending: Sets how the device records pressure data. **Save Always** can be useful when you are watching for pressure fronts.

Plot Type: Records elevation changes over a period of time or distance, records barometric pressure over a period of time, or records ambient pressure changes over a period of time.

Calibrate Altimeter: Allows you to calibrate the barometric altimeter if you know the correct elevation or the correct barometric pressure. See [page 5](#).

Proximity Alarms Settings

Select **Settings > Proximity Alarms**.

Radius Units: Sets the unit used for a proximity point radius.

Enable Alarms: Turns on or off all proximity alarms.

Vibrate: The device vibrates when a proximity alarm is triggered.

Proximity Tones: The device plays an audible tone when a proximity alarm is triggered.

Approaching Alarm Tone: Sets the tone the device plays when you enter a proximity point radius.

Leaving Alarm Tone: Sets the tone the device plays when you leave a proximity point radius.

Connecting to a Wireless Network

- 1 Select **Settings > Wi-Fi**.
- 2 If necessary, select the toggle switch to turn on Wi-Fi.
- 3 If necessary, select **SCAN** to scan for available networks.
- 4 Select a wireless network.

- 5 If necessary, enter the encryption key.

The device connects to the wireless network. The device remembers the network information and connects automatically when you return to this location in the future.

Pairing Bluetooth® Devices

- 1 Select **Settings > Bluetooth**.
- 2 Select the toggle switch to turn on Bluetooth wireless technology.
- 3 If necessary, select **Search for Devices** to scan for nearby devices.
- 4 Select a device.
- 5 Follow the on-screen instructions to complete the pairing process.

Pairing Your ANT+™ Sensors

Pairing is the connecting of ANT+ wireless devices, for example, connecting a temperature sensor with your Garmin device.

- 1 Bring the device within range (3 m) of the sensor.
NOTE: Stay 10 m away from other ANT+ sensors while pairing.
- 2 Select **Settings > More > ANT+ Sensors**.
- 3 Select the toggle switch to enable pairing with your sensor type.

The device automatically searches for your sensor and pairs with it.

Enabling Airplane Mode

Airplane mode disables all receivers and transmitters in the device, including GPS, wireless networking, ANT™ technology, and Bluetooth technology. This can be useful to conserve battery life when you are not using these technologies, or when you take the device to an area where these technologies are prohibited, such as on an airplane.

Select **Settings > More > Airplane mode**.

Profiles

Profiles are a collection of settings that optimize your device based on how you are using it. For example, the settings and views are different when you use the device for hunting than when geocaching.

When you are using a profile and you change settings, such as data fields or units of measurement, the changes are saved automatically as part of the profile.

Selecting a Profile

When you change activities, you can change the setup of the device by changing the profile.

- 1 Select **Settings > Profiles**.
- 2 Select a profile.
- 3 Select **Make Current**.
- 4 Optionally, select the toggle switch to enable profile switching from the notifications.
This feature is useful if you switch profiles frequently.

Creating a Custom Profile

You can customize your home screen, settings, and data fields for a particular activity or trip.

- 1 Select **Settings > Profiles**.
- 2 Select **+**.
- 3 Enter a name, and select **Done**.

The new profile is saved and becomes the active profile.

- 4 Customize your home screen, settings, and data fields.

Editing a Profile Name

- 1 Select **Settings > Profiles**.
- 2 Select a profile.
- 3 Select **Edit Name**.
- 4 Enter the new name.

Deleting a Profile

- 1 Select **Settings > Profiles**.
- 2 Select a profile.
- 3 Select **Delete**.

Sound Settings

Select **Settings > Sound**.

Volumes: Set the volume levels for media, notifications, and alarms.

Silent Mode: Silences devices sounds.

Default notification: Sets the default sound used for notifications.

Vibrate and ring: Enables vibration for notifications when silent mode is not enabled.

High Power Audio: Increases the maximum volume for the built-in speaker.

NOTE: This feature draws additional power and may cause the device to shut down unexpectedly if used with the camera or high backlight levels. This feature may reduce battery life.

Touch sounds: Plays a sound when you touch some on-screen objects, such as the keyboard.

Screen lock sound: Plays a sound when you unlock the lock screen.

Vibrate on touch: Vibrates when you touch some on-screen objects.

Display Settings

Select **Settings > Display**.

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

Glove Mode: Increases the touchscreen sensitivity for use when wearing gloves.

Brightness: Sets the backlight brightness.

Wallpaper: Sets the home screen wallpaper for the selected profile.

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

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

Sleep: Sets the length of time before the device enters low-power sleep mode.

Font Size: Sets the size of text in the user interface.

Adding Accounts

You can add accounts to your device to enable app purchases and synchronize data.

- 1 Select **Settings > Accounts & Sync > Add Account**.
- 2 Select an account type.
- 3 Follow the on-screen instructions.

Changing the Lock Screen Security

You can require a security pattern, password, or PIN to unlock the lock screen. You can also disable the lock screen.

- 1 Select **Settings > Security > Screen lock**.
- 2 Select a lock screen option.
- 3 If necessary, follow the on-screen instructions to create a security pattern, password, or PIN for your device.

Language and Input Settings

Select **Settings > Language & input**.

Language: Sets the language of the text in the user interface.

Spelling correction: Enables spelling correction when you enter text.

Personal dictionary: Allows you to add custom words to the dictionary used for spelling correction.

Default: Sets the default input method used for text entry.

Voice Search: Sets the preferences for the voice search feature.

Text-to-speech output: Sets the software and preferences used for text-to-speech.

Pointer speed: Sets the mouse pointer speed when using a Bluetooth mouse with the device.

Backing Up Your Data

You can back up accounts, settings, wireless network passwords, and some application data to your Google account.

- 1 Select **Settings > Backup & reset > Back up my data**.
- 2 If necessary, select **Backup account** to choose an account for the backup data.
- 3 Select **Automatic Restore** to restore data automatically from your backup account when you reinstall applications (optional).

Resetting to Factory Defaults

NOTICE

Data deleted through a factory reset cannot be restored from the internal storage.

You can reset the device to factory defaults. This removes all applications, accounts, and user data. If data backup is enabled, some account and user data may be restored from your backup account after the factory reset, but many user data types are not included in this backup. You should back up all user data prior to a reset to ensure that you do not lose important data.

Select **Settings > Backup & reset > Factory data reset**.

Date and Time Settings

Select **Settings > Date & time**.

Automatic date & time: Sets the date and time automatically from GPS satellites or wireless networks.

Automatic time zone: Sets the time zone automatically based on your location.

Set date: Sets the date. This setting is not available if **Automatic date & time** is enabled.

Set time: Sets the time. This setting is not available if **Automatic date & time** is enabled.

Set time zone: Sets the time zone. This setting is not available if **Automatic time zone** is enabled.

Use 24-hour format: Displays the time in 24-hour format.

Select date format: Sets the format used to display the date. **Regional** sets the format automatically based on the selected language ([page 10](#)).

Device Information

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 the Battery Life

- Reduce the backlight brightness, backlight timeout, and sleep timeout ([page 10](#)).
- Turn on airplane mode ([page 9](#)).
- Exit the camera application when you are not taking photos.
- Pause track recording when you do not need to record your track ([page 4](#)).
- Turn off GPS when you are not using it ([page 2](#)).

Saving Energy While Charging the Device

You can turn off some features to allow the device to go into low power mode while charging.

- 1 Turn off GPS ([page 2](#)).
- 2 Pause track recording ([page 4](#)).
- 3 Connect the device to an external power source.
- 4 Select  to turn off the display.

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.

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 touch screen, or damage may result.

Avoid chemical cleaners and solvents that can damage plastic components.

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

Cleaning the Device

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

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

Specifications

Battery type	Lithium-ion battery pack or three AA batteries (alkaline, NiMH, or lithium)
Battery life	Lithium-ion battery pack: up to 16 hours. AA batteries: up to 22 hours
Water resistance	IEC 60529 IPX7
Operating temperature range	From -4° to 158°F (from -15° to 70°C)
Charging temperature range	From 32° to 113°F (from 0° to 45°C)
Radio frequency/protocol	ANT+ wireless technology; Bluetooth wireless technology; Wi-Fi® IEEE 802.11b/g/n at 2.4GHz; Near Field Communication technology
Stereo headphone jack	3.5 mm

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 track files.
- GPX geocache files. Go to www.opencaching.com.
- 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.

- 1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
- 2 Remove the batteries or battery pack.
- 3 In the battery compartment, slide the card holder ① to the left and lift up.



- 4 Place the memory card ② with the gold contacts facing down.
- 5 Close the card holder.
- 6 Slide the card holder to the right to lock it.

- 7 Replace the batteries or battery pack.
- 8 Replace the battery cover, and turn the D-ring clockwise.

Connecting the Device to Your Computer

NOTICE

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

Before you can operate your device while connected to your computer, you must install batteries. The computer USB port may not provide enough power to operate the device.

- 1 Pull up the weather cap from the mini-USB port.
- 2 Plug the small end of the USB cable into the mini-USB port.
- 3 Plug the large end of the USB cable into a computer USB port.

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.

Transferring Files to Your Device

- 1 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.

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

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

Deleting Files

NOTICE

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

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

Disconnecting the USB Cable

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

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

Troubleshooting

Viewing Device Information

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

Select **Settings > About Monterra**.

Updating the Software

NOTE: Updating the software does not erase any of your data or settings.

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

Resetting the Device

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

- 1 Remove the batteries.
- 2 Reinstall the batteries.

Registering Your Device

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

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

Getting More Information

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

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

Appendix

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.

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.

Index

A

- accessories 9, 12
- accounts 10
- addresses, finding 3
- adventures 4
- airplane mode 9
- alarms, proximity 7, 9
- altimeter 5, 9
- ANT+ sensors, pairing 9
- applications, installing 7
- area calculation 7

B

- barometer 5
- BaseCamp 4, 11
- battery 1, 11
 - charging 1, 11
 - installing 1, 2
 - life 9
 - maximizing 11
 - storage 11
- Bluetooth technology 9

C

- calibrating
 - altimeter 5
 - compass 5
- camera 1, 6
- charging 1, 11
- chirp 6, 7
- City Navigator 3
- cleaning the device 11
- cleaning the touchscreen 11
- compass 5
 - navigating 5
 - settings 9
- computer, connecting 12
- course, pointer 5
- customizing the device 7, 8

D

- dashboards 8
- data
 - backup 10
 - transferring 12
- data fields 8
- deleting, all user data 12
- device
 - care 11
 - registration 12
 - resetting 10, 12
- display settings 10
- downloading, geocaches 6

E

- elevation 4, 5
 - plot 5

F

- files, transferring 6, 11, 12
- finding locations 3
- flashlight 7
- FM radio 7

G

- geocaches 6, 7, 11
 - downloading 6
- GPS 7
 - settings 2

H

- heading setting 9
- home screen 2
 - customizing 7
- HomePort 11

K

- keyboard, language 10

L

- language, keyboard 10
- locations
 - editing 2
 - saving 2
- locking, screen 2, 8, 10

M

- maps 2, 5
 - data fields 8
 - optional 3, 12
 - settings 8
- memory card 11
- microSD card. See memory card

N

- navigation 4, 5
 - compass 5
 - road 5
 - stopping 5
- NOAA radio 7
- notifications 2

O

- on-screen buttons 2

P

- pairing 9
 - ANT+ sensors 9
- photos 6
 - taking 6
 - viewing 6
- position format 8
- power key 1, 2
- product registration 12
- profiles 9, 10
- proximity alarms 7, 9

R

- radio
 - FM 7
 - NOAA 7
- registering the device 12
- resetting the device 10, 12
- routes 3
 - creating 3
 - deleting 3
 - editing 3
 - settings 8
 - viewing on the map 3

S

- satellite signals 7
- saving your data 10
- screen
 - locking 2, 8, 10
 - orientation 8
- settings 8–10
 - device 8
- shortcuts, adding 7
- Sight N' Go 5
- software, updating 2, 12
- specifications 11
- storing data 12

T

- tempe 12
- temperature 12
- time, settings 10
- touchscreen 2
- TracBack 4
- track log
 - following 4
 - pausing 4
- tracks 4
 - settings 4, 8
- transferring, files 4, 11
- transferring files 6
- trip computer 5
- trip information 6
 - viewing 5

- trip planner. See routes
- troubleshooting 12

U

- unit ID 12
- units of measure 8
- updates, software 2
- updating software 12
- USB
 - disconnecting 12
 - mass storage mode 11
 - transferring files 11
- user data, deleting 12

V

- video 6
 - playing 6
 - recording 6
- volume 1

W

- water resistance 11
- waypoints 2, 3
 - deleting 3
 - editing 2, 3
 - projecting 3
 - saving 2
- weather 7
 - radio 7
- Where To? 5
- Wi-Fi, connecting 9
- widgets 7

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