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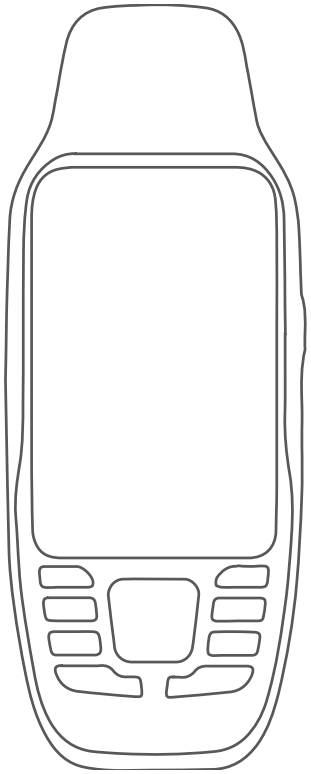

GPSMAP® 79S/SC

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.

Getting Started

When using your device the first time, you should complete these tasks to set it up and get to know the basic features.

1. Install the batteries (*Installing Batteries*, page 3).
2. Press and hold ⏻ to turn on the device.
3. Acquire satellites (*Acquiring Satellite Signals*, page 6).
4. Calibrate the compass (*Calibrating the Compass*, page 8).
5. Mark a waypoint (*Saving Your Current Location as a Waypoint*, page 12).
6. Navigate to a destination (*Navigating to a Destination*, page 11).

Device Overview

1	GNSS antenna
2	Power button
3	Buttons
4	Micro-USB port (under weather cap)
5	Serial port (under weather cap)
6	microSD® card slot (under batteries)
7	Battery compartment
8	Mounting spine
9	Battery cover D-ring

Installing Batteries

NOTICE

To prevent damage, thoroughly wipe dry and air dry the device and battery compartment before installing the batteries or turning on the device.

The handheld device operates using two AA batteries (not included). Use lithium batteries with 1.5 V nominal voltage for best results. Do not use lithium batteries with a higher voltage.

1 Turn the D-ring counter-clockwise, and pull up to remove the cover.

2 Insert two AA batteries, observing polarity.

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

Connecting the Device to External Power

NOTICE

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

Before you can connect the device to external power using a USB cable, you must change the serial interface setting to Garmin Spanner (*Serial Interface Settings*, page 25).

1 Lift the weather cap ①.

2 Select an option:

- To connect to a compatible 5 V AC power adapter (sold separately), connect the small end of the included USB cable to the USB port ② on the device.
- To connect to a NMEA® 0183 device, connect a 12 V serial/data power cable (sold separately) to the serial port ③ on the device.

Optional accessories are available at buy.garmin.com or from your Garmin® dealer.

Buttons

FIND	Press to open the search menu. Hold to mark your current location as a man overboard (MOB) location and activate navigation.
MARK	Press to save your current location as a waypoint.
QUIT	Press to cancel or return to the previous menu or page. Press to scroll through the main pages.
ENTER	Press to choose options and acknowledge messages. Press to control the current activity recording (from the main pages).
MENU	Press to open the options menu for the page that is currently open. Press twice to open the main menu (from any page).
PAGE	Press to scroll through the main pages.
▲▼◄►	Press to select menu options and move the map cursor.
+	Press to zoom in on the map.
−	Press to zoom out on the map.

Turning On the Device

Press and hold ⏻.

Locking the Buttons

You can lock the keypad to prevent inadvertent button presses.

1. Press ⏻ to open the status page.
2. Select **Lock Keys**.

Turning On the Backlight

Press any button to turn on the backlight.

Adjusting the Backlight

1 Press ⏻ to open the status page.
2 Use + and − to adjust the brightness.

TIP: You can select NV to reduce the backlight intensity for compatibility with night vision goggles.

Acquiring Satellite Signals

It may take 30 to 60 seconds to acquire satellite signals.

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

? flashes while the device determines your GNSS location.

in the status bar shows the satellite signal strength.

When the device acquires satellite signals, it automatically starts recording your path as an activity.

Using the Main Pages

The information needed to operate this device is found on the main menu, map, compass, and trip computer pages.

Press **PAGE** or **QUIT** to scroll through the main pages.

The page displayed in the middle opens automatically.

Opening the Main Menu

The main menu gives you access to tools and setup screens for waypoints, activities, routes, and more (*Main Menu Tools*, page 21, *Setup Menu*, page 24).

From any page, press **MENU** twice.

Map

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

Navigating with the Map

1 Begin navigating to a destination (*Navigating to a Destination*, page 11).
2 Press **PAGE** to scroll to the map page.

A blue triangle represents your location on the map. As you travel, the blue triangle moves and displays your path.

3 Complete one or more actions:

- To view different areas of the map, press ▲, ▼, ◄, or ►.
- To zoom in and out of the map, press + and −.
- To view more information about a waypoint on the map (represented by an icon) or other location, move the map cursor to the location, and press **ENTER**.

Measuring Distance on the Map

You can measure the distance between multiple locations.

1. Press **PAGE** to scroll to the map page.
2. Press **MENU**.
3. Select **Measure Distance**.
4. Press ▲, ▼, ◄, and ► to move the map cursor to a location.
   The measured distance appears.
5. Press **ENTER** to select additional locations on the map.

Map Page Settings

Press **PAGE** to scroll to the map page, and press **MENU**.

Show Dashboard: Allows you to show or hide the dashboard after setting one to display on the map (*Map Settings*, page 7).

Stop Navigation: Stops navigating the current route.

Map Setup: Allows you to customize additional map settings (*Map Settings*, page 7).

Measure Distance: Allows you to measure the distance between multiple locations (*Measuring Distance on the Map*, page 7).

Change Data Fields: Allows you to customize the data fields on the dashboard.

Restore Defaults: Restores the map to factory default settings.

Map Settings

Press **PAGE** to scroll to the map page, and press **MENU**. Select **Map Setup**.

Configure Maps: Enables or disables the maps currently loaded on the device (*Enabling Maps*, page 7).

Orientation: Adjusts how the map is shown on the page (*Changing the Map Orientation*, page 8).

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

NOTE: Your customized settings are remembered by the dashboard. Your settings are not lost when you change profiles (*Profiles*, page 29).

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

Advanced Setup: Allows you to customize advanced map settings (*Advanced Map Settings*, page 8).

Enabling Maps

You can enable map products installed on your device.

1. Press **PAGE** to scroll to the map page.
2. Press **MENU**.
3. Select **Map Setup** > **Configure Maps**.
4. Select the toggle switch to enable each installed map.

Optional Maps

You can use additional maps with the device, such as BirdsEye satellite imagery, BlueChart® g3, and City Navigator® detailed maps. Detailed maps may contain additional points of interest, such as restaurants or marine services. For more information, go to buy.garmin.com or contact your Garmin dealer.

Changing the Map Orientation

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

Advanced Map Settings

Press **PAGE** to scroll to the map page, and press **MENU**. Select **Map Setup** > **Advanced Setup**.

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

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 on the map. The default icon is a small blue triangle.

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.

Compass

The handheld device has a 3-axis, tilt-compensated compass. You can use a bearing pointer or a course pointer to navigate to your destination.

Calibrating the Compass

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

The GPSMAP 79s/sc device has a 3-axis electronic compass. You should calibrate the compass after moving long distances, experiencing temperature changes, or changing the batteries.

1. Press **PAGE** to scroll to the compass page.
2. Press **MENU**.
3. Select **Calibrate Compass** > **Start**.
4. Follow the on-screen instructions.

Navigating with the Compass

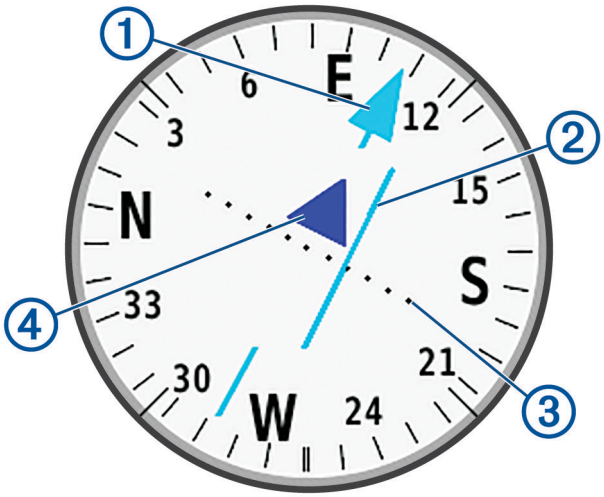
When navigating to a destination, ▲ points to your destination, regardless of the direction you are moving.

1. Begin navigating to a destination (*Navigating to a Destination*, page 11).
2. Press **PAGE** to scroll to the compass page.
3. Turn until ▲ points toward the top of the compass, and continue moving in that direction to the destination.

Using the Course Pointer

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

1. Press **PAGE** to scroll to the compass page.
2. Press **MENU**.
3. Select **Heading Setup** > **Go To Line (Pointer)** > **Course (CDI)** to enable the course pointer.



1	Course line pointer. Indicates the direction of the desired course line from your starting point to your next waypoint.
2	Course deviation indicator (CDI). Indicates the location of the desired course line in relation to your location. If the CDI is aligned with the course line pointer, you are on course.
3	Course deviation distance. The dots indicate your distance off course. The distance represented by each dot is indicated by the scale in the upper-right corner.
4	To-and-from indicator. Indicates whether you are headed to or away 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. Press **PAGE** to scroll to the compass page.
2. Press **MENU**.
3. Select **Sight 'N Go**.
4. Point the device at an object.
5. Select **Lock Direction** > **Set Course**.
6. Navigate using the compass.

Projecting a Waypoint from Your Current Location

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

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

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

Compass Settings

Press **PAGE** to scroll to the compass page, and press **MENU**.

Sight 'N Go: Allows you to point the device at an object in the distance, and navigate using the object as a reference point (*Navigating with Sight 'N Go*, page 9).

Stop Navigation: Stops navigation of the current route.

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

NOTE: Your customized settings are remembered by the dashboard. Your settings are not lost when you change profiles (*Profiles*, page 29).

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

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 8).

Heading Setup: Allows you to customize the compass heading settings (*Heading Settings*, page 10).

Change Data Fields: Allows you to customize the compass data fields.

Restore Defaults: Restores the compass to factory default settings.

Heading Settings

Press **PAGE** to scroll to the compass page, and press **MENU**. Select **Heading Setup**.

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

North Reference: Sets the north reference used on the compass (*Setting the North Reference*, page 11).

Go To Line (Pointer): Sets the behavior of the pointer that appears on the map. Bearing points in the direction of your destination. Course (CDI) 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 8).

Setting the North Reference

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

1. Press **PAGE** to scroll to the compass page.
2. Press **MENU**.
3. Select **Heading Setup** > **North Reference**.
4. Select an option:
   - To set geographic north as the heading reference, select **True**.
   - To set the magnetic declination for your location automatically, select **Magnetic**.
   - To set grid north (000 degrees) as the heading reference, select **Grid**.
   - To set the magnetic variation value manually, select **User**, enter the magnetic variance, and select **Done**.

Trip Computer

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

Trip Computer Settings

Press **PAGE** to scroll to the trip computer page, and press **MENU**.

Reset: Resets all the trip computer values to zero. For accurate information, reset the trip information before beginning a trip.

Change Data Fields: Customizes the trip computer data fields.

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

NOTE: Your customized settings are remembered by the dashboard. Your settings are not lost when you change profiles (*Profiles*, page 29).

Insert Page: Inserts an additional page of customizable data fields.

TIP: You can use the arrow buttons to scroll through the pages.

Remove Page: Removes an additional page of customizable data fields.

More Data: Adds additional data fields to the trip computer.

Less Data: Removes data fields from the trip computer.

Restore Defaults: Restores the trip computer to its factory default settings.

Navigation

FIND Page

You can use the FIND page to find a destination to navigate to. Not all FIND categories are available in all areas and maps.

Navigating to a Destination

1. Press **FIND**.
2. Select a category.
3. If necessary, press **MENU** to narrow the search.
4. If necessary, select **Spell Search**, and enter the destination name or part of the name.
5. Select a destination.
6. Select **Go**.

   Your route appears as a magenta line on the map.
7. Navigate using the map (*Navigating with the Map*, page 6) or compass (*Navigating with the Compass*, page 8).

Stopping Navigation

1. Press **FIND**.
2. Select **Stop Navigation**.

Finding a Location Near Another Location

1. Press **FIND**.
2. Press **MENU**.
3. Select **Search Near**, and select an option.
4. Select a location.

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.

Saving Your Current Location as a Waypoint

1. Press **MARK**.
2. If necessary, select a field to edit information about the waypoint, such as the name or location.
3. Select **Save**.

Saving a Location on the Map as a Waypoint

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

1. Press **PAGE** to scroll to the map page.
2. Press ▲, ▼, ◄, or ► to move the cursor to a location.
   An information bar appears at the top of the screen.
3. Press **ENTER**.
4. Press **MENU**.
5. Select **Save as Waypoint**.

Navigating to a Waypoint

1. Press **FIND**.
2. Select **Waypoints**.
3. Select a waypoint.
4. Select **Go**.
   By default, your route to the waypoint appears as a straight, colored line on the map.

Finding a Saved Waypoint

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. If necessary, press **MENU** to narrow the search.
4. 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.
5. Select a waypoint from the list.

Editing a Waypoint

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a saved waypoint.
4. Select an item to edit, such as the name or location.
5. Enter the new information, and select **Done**.

Deleting a Waypoint

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Delete**.

Changing the Photo for a Waypoint

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Change Photo**.
6. Select a photo.
7. Select **Use**.

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. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Average Location**.
6. Move to the waypoint location.
7. Select **Start**.
8. Follow the on-screen instructions.
9. 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 from a Saved Waypoint

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

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Project Waypoint**.
6. Enter the bearing, and select **Done**.
7. Select a unit of measure.
8. Enter the distance, and select **Done**.
9. Select **Save**.

Moving a Waypoint on the Map

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Move Waypoint**.
6. Press ▲, ▼, ◄, or ► to move the cursor to a new location on the map.
7. Select **Move**.

Finding a Location Near a Waypoint

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Find Near Here**.
6. Select a category.

The list displays locations near the selected waypoint.

Setting a Waypoint Proximity Alarm

You can add a proximity alarm for a waypoint. Proximity alarms alert you when you are within a specified range of a particular location.

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Set Proximity**.
6. Enter the radius.

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

Adding a Waypoint to a Route

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Add to Route**.
6. Select a route.

Repositioning a Waypoint to Your Current Location

You can change the position of a waypoint. For example, if you move your vehicle, you can change the location to your current position.

1. Press **MENU** twice to open the main menu.
2. Select **Waypoint Manager**.
3. Select a waypoint.
4. Press **MENU**.
5. Select **Reposition Here**.

The waypoint location changes to your current location.

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. Press **MENU** twice to open the main menu.
2. Select **Route Planner** > **Create Route** > **Select First Point**.
3. Select a category.
4. Select the first point in the route.
5. Select **Use**.
6. Select **Select Next Point** to add additional points to the route.
7. Select **QUIT** to save the route.

Creating a Route Using the Map

1. Press **MENU** twice to open the main menu.
2. Select **Route Planner** > **Create Route** > **Select First Point** > **Use Map**.
3. Press ▲, ▼, ◄, or ► to select a point on the map.
4. Select **Use**.
5. Repeat steps 3 and 4 to select additional points on the map to add to the route (optional).
6. Select **QUIT**.

Navigating a Saved Route

1. Press **FIND**.
2. Select **Routes**.
3. Select a route.
4. Select **Go**.

   By default, your route appears as a straight, colored line on the map.

Viewing the Active Route

1. Begin navigating a route (*Navigating a Saved Route*, page 15).
2. Press **MENU** twice to open the main menu.
3. Select **Active Route**.
4. Select a point in the route to view additional details.

Editing a Route

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

1. Press **MENU** twice to open the main menu.
2. Select **Route Planner**.
3. Select a route.
4. Select **Edit Route**.
5. Select a point.
6. 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**.
7. Select **QUIT** to save the route.

Viewing a Route on the Map

1. Press **MENU** twice to open the main menu.
2. Select **Route Planner**.
3. Select a route.
4. Select **View Map**.

Editing the Name of a Route

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

1. Press **MENU** twice to open the main menu.
2. Select **Route Planner**.
3. Select a route.
4. Select **Change Name**.
5. Enter the new name.

Reversing a Route

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

1. Press **MENU** twice to open the main menu.
2. Select **Route Planner**.
3. Select a route.
4. Select **Reverse Route**.

Deleting a Route

1. Press **MENU** twice to open the main menu.
2. Select **Route Planner**.
3. Select a route.
4. Select **Delete Route**.

Recordings

Your device records your path as an activity. Activities contain information about points along your recorded path, including time and location for each point.

Recording Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Recording**.

Record Method: Sets the recording method. The Auto option records points at a variable rate to create an optimum representation of your path. You can also record points at specific time or distance intervals.

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

Auto Pause: Sets the device to stop recording your path when you are not moving.

Auto Start: Sets the device to start a new recording automatically when the previous recording ends.

Activity Type: Sets the default activity type for the device.

Advanced Setup: Allows you to customize additional recording settings (*Advanced Recording Settings*, page 17).

Advanced Recording Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Recording** > **Advanced Setup**.

Output Format: Sets the device to save the recording as a FIT or a GPX and FIT file (*File Types*, page 32). The FIT option records your activity with fitness information that is tailored for the Garmin Connect™ application and can be used for navigation. The FIT and GPX option records your activity as both a traditional track that can be viewed on the map and used for navigation, and as an activity with fitness information.

Auto Save: Sets an automated schedule to save your recordings. This helps organize your trips and save memory space (*Auto Save Settings*, page 17).

Trip Recording: Sets a trip recording option.

Recorded Data Reset: Sets a reset option. The Activity and Trip option resets the recording and trip data when you finish the active recording. The Prompted option prompts you to select the data to reset.

Auto Save Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Recording** > **Advanced Setup** > **Auto Save**.

When Full: Automatically saves the current recording and starts a new one when the current recording is near 20,000 track points.

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

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

Auto: Automatically saves the current recording based on its length and the number of track points taken.

Never: Never saves the current recording automatically. When the current recording nears 20,000 track points, the device filters the active track to remove redundant points while retaining the shape and history of the recording. Unfiltered points are saved in a temporary GPX and FIT file that is saved or discarded when the recording stops.

NOTE: When importing FIT activities or GPX tracks with more than 20,000 track points, the device filters the line to fit in the device memory and improve map drawing performance, while retaining the shape and history of the recording. The FIT and GPX files retain all of their original track points.

Viewing the Current Activity

By default, the device automatically starts recording your path as an activity when it is turned on and has acquired satellite signals. You can pause and start recording manually.

1. Press **MENU** twice to open the main menu.
2. Select **Recording Controls**.
3. Press ◄ and ► to view an option:
   - To control the current activity recording, select ▌▶.
   - To view data fields for the activity, select ⓘ.
   - To view the current activity on the map, select .

Customizing Your Activity Log

You can customize how your device displays and records activities.

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities** > **Current Activity** > ⓘ.
3. Press **MENU**.
4. Select an option:
   - To change the color of the activity line on the map, select **Set Color**.
   - To display a line on the map indicating your activity, select **Show on Map**.
5. Select **Activities Setup** > **Record Method**.
6. 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**.
7. Select **Interval**.
8. 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 **Done**.

Navigating Using TracBack®

While recording, 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. Press **MENU** twice to open the main menu.
2. Select **Recording Controls**.
3. Press ► to switch to the map tab.
4. Select **TracBack**.

   The map displays your route with a magenta line, start point, and end point.
5. Navigate using the map (*Navigating with the Map*, page 6) or compass (*Navigating with the Compass*, page 8).

Stopping the Current Activity

1. From the main pages, press **ENTER**.
2. Select **Stop**.
3. Select an option:
   - To resume recording, select **Resume**.
   - To save the activity, select .

     TIP: You can view the saved activity by pressing **MENU** twice to view the main menu, and selecting **Recorded Activities**.
   - To delete the activity and reset the trip computer, select .

Saving the Current Activity

1. Press **MENU** twice to open the main menu.
2. Select **Recording Controls** > .
3. Select an option:
   - Select **Save** to save the entire activity.
   - Press **MENU**, select **Save Portion**, and select a portion.

Viewing Saved Activity Information

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities**.
3. Select an activity.
4. Select to view information about the activity, such as time and distance.
5. Select to view the activity on a map.

   The beginning and the end of the trail are marked by flags.

Saving a Location from an Activity as a Waypoint

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities**.
3. Select an activity.
4. Select .
5. Press , , , or to move the cursor to a location.

   An information bar appears at the top of the screen.
6. Press **ENTER**.
7. Press **MENU**.
8. Select **Save as Waypoint**.

Creating a Track from a Saved Activity

You can create a track from a saved activity. Tracks are saved using different file types than activities (*File Types*, page 32).

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities**.
3. Select an activity.
4. Press **MENU**.
5. Select **Save as Track**.

Reversing an Activity

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

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities**.
3. Select an activity.
4. Press **MENU**.
5. Select **Copy Reversed**.

Navigating a Saved Activity

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities**.
3. Select an activity.
4. Select .
5. Select **Go**.

Deleting a Saved Activity

1. Press **MENU** twice to open the main menu.
2. Select **Recorded Activities**.
3. Select an activity.
4. Press **MENU**.
5. Select **Delete**.

Main Menu Tools

Press **MENU** twice to open the main menu.

Recording Controls: Allows you to view details about the current activity and control the current activity recording (*Viewing the Current Activity*, page 18).

Waypoint Manager: Displays all waypoints saved to the device (*Waypoints*, page 12).

Geocaching: Displays a list of downloaded geocaches (*Geocaches*, page 21).

Recorded Activities: Displays your current activity and a list of recorded activities (*Recordings*, page 17).

Active Route: Displays your active route and upcoming waypoints (*Routes*, page 15).

Route Planner: Displays a list of saved routes and allows you to create new routes (*Creating a Route Using Route Planner*, page 15).

Saved Tracks: Displays a list of saved tracks (*Creating a Track from a Saved Activity*, page 19).

Sight 'N Go: Allows you to point the device at an object in the distance, and navigate using the object as a reference point (*Navigating with Sight 'N Go*, page 9).

Proximity Alarms: Allows you to set alerts to sound when you are within a specified distance of particular locations (*Setting a Proximity Alarm*, page 23).

Profile Change: Allows you to change the device profile to customize your settings and data fields for a particular activity or trip (*Selecting a Profile*, page 24).

Area Calculation: Allows you to calculate the size of an area (*Calculating the Size of an Area*, page 24).

Calendar: Displays a calendar.

Hunt and Fish: Displays the predicted best dates and times for hunting and fishing at your current location.

Sun and Moon: Displays sunrise and sunset times, along with the moon phase, based on your GPS position.

Photo Viewer: Displays saved photos.

Waypoint Averaging: Allows you to refine a waypoint location for more accuracy (*Increasing the Accuracy of a Waypoint Location*, page 13).

Calculator: Displays a calculator.

Alarm Clock: Sets an audible alarm. If you are not currently using the device, you can set the device to turn on at a specific time.

Stopwatch: Allows you to use a timer, mark a lap, and time laps.

Geocaches

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

Downloading Geocaches Using a Computer

You can load geocaches manually onto your device using a computer (*Transferring Files to Your Device*, page 33). 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.

Searching for a Geocache

You can search the geocaches loaded on your device.

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

1. Press **MENU** twice to open the main menu.
2. Select **Geocaching** > .
3. Press **MENU**.
4. 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.
5. Select a geocache.

   The geocache details appear.

Filtering the Geocache List

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

1. Press **MENU** twice to open the main menu.
2. Select **Geocaching** > .
3. Press **MENU**.
4. Select **Filter**, and select one or more options:
   - To filter by a geocache category, such as puzzle or event, select **Type**.
   - To filter by the physical size of the geocache container, select **Cache Size**.
   - To filter by **Unattempted**, **Did Not Find**, or **Found** geocaches, select **Status**.
   - To filter by the difficulty level of finding the geocache, or the difficulty of the terrain, select a level from 1 to 5.
5. Select **QUIT** to view the filtered geocache list.

Saving a Custom Geocache Filter

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

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Geocaching** > **Filter Setup** > **Create Filter**.
3. Select items to filter.
4. Select **QUIT**.

   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 22).

Editing a Custom Geocache Filter

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Geocaching** > **Filter Setup**.
3. Select a filter.
4. Select an item to edit.

Viewing Geocache Details

1. Press **MENU** twice to open the main menu.
2. Select **Geocaching**.
3. Select a geocache.
4. Press **MENU**.
5. Select **Review Point**.

   The geocache description and logs appear.

Navigating to a Geocache

1. Press **MENU** twice to open the main menu.
2. Select **Geocaching**.
3. Select a geocache.
4. Select **Go**.

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 **MENU** > **Geocache**.
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**.

Logging the Attempt

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

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

Setting a Proximity Alarm

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

1. Press **MENU** twice to open the main menu.
2. Select **Proximity Alarms** > **Create Alarm**.
3. Select a category.
4. Select a location.
5. Select **Use**.
6. Enter a radius.

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

Editing or Deleting a Proximity Alarm

1. Press **MENU** twice to open the main menu.
2. Select **Proximity Alarms**.
3. Select an alarm.
4. Select an option:
   - To edit the radius, select **Change Radius**.
   - To view the alarm on a map, select **View Map**.
   - To delete the alarm, select **Delete**.

Selecting a Profile

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

1. Press **MENU** twice to open the main menu.
2. Select **Profile Change**.
3. Select a profile.

Calculating the Size of an Area

1. Press **MENU** twice to open the main menu.
2. Select **Area Calculation** > **Start**.
3. Walk around the perimeter of the area you want to calculate.
4. Select **Calculate** when finished.

Customizing the Device

Customizing the Data Fields

You can customize the data fields displayed on each main page.

1. Open the page for which you will change the data fields.
2. Press **MENU**.
3. Select **Change Data Fields**.
4. Select a data field.
5. Follow the on-screen instructions.

Setup Menu

Press **MENU** twice to open the main menu. Select **Setup**.

System: Allows you to customize the system settings (*System Settings*, page 25).

Display: Adjusts the backlight and display settings (*Display Settings*, page 25).

Map: Sets the map appearance (*Map Settings*, page 7).

Recording: Allows you to customize the activity recording settings (*Recording Settings*, page 17).

Routing: Allows you to customize how the device calculates routes for each activity (*Routing Settings*, page 26).

Expedition Mode: Allows you to customize the settings for turning on expedition mode (*Turning On Expedition Mode*, page 26).

Waypoints: Allows you to enter a custom prefix for automatically named waypoints.

Tones: Sets the device sounds, such as key tones and alarms (*Setting the Device Tones*, page 26).

Heading: Allows you to customize the compass heading settings (*Heading Settings*, page 10).

Geocaching: Allows you to customize your geocache settings (*Geocaching Settings*, page 27).

Marine: Sets the appearance of marine data on the map (*Marine Settings*, page 27).

Menus: Allows you to customize the page sequence and main menu (*Menu Settings*, page 27).

Position Format: Sets the geographical position format and datum options (*Position Format Settings*, page 28).

Units: Sets the units of measure used on the device (*Changing the Units of Measure*, page 29).

Time: Adjusts the time settings (*Time Settings*, page 29).

Profiles: Allows you to customize and create new activity profiles (*Profiles*, page 29).

Reset: Allows you to reset user data and settings (*Resetting Data and Settings*, page 30).

About: Displays device information, such as the unit ID, software version, regulatory information, and license agreement (*Viewing E-label Regulatory and Compliance Information*, page 34).

System Settings

Press **MENU** twice to open the main menu. Select **Setup** > **System**.

Satellite: Sets the satellite system options (*Satellite Settings*, page 25).

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, such as street names.

Interface: Sets the format of the serial interface (*Serial Interface Settings*, page 25).

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

Battery Type: Allows you to change the type of AA battery you are using.

NOTE: This setting is disabled when the optional NiMH battery pack is installed.

Satellite Settings

Press **MENU** twice to open the main menu. Select **Setup** > **System** > **Satellite**.

Satellite System: Sets the satellite system to GPS only, multiple satellite systems, or Demo Mode (GPS off).

SBAS: Enables the device to use a satellite-based augmentation system (SBAS).

GPS and Other Satellite Systems

Using GPS and another satellite system together offers increased performance in challenging environments and faster position acquisition than using GPS only. However, using multiple systems can reduce battery life more quickly than using GPS only.

Your device can use these Global Navigation Satellite Systems (GNSS).

GPS: A satellite constellation built by the United States.

GLONASS: A satellite constellation built by Russia.

GALILEO: A satellite constellation built by the European Space Agency.

Serial Interface Settings

Press **MENU** twice to open the main menu. Select **Setup** > **System** > **Interface**.

Garmin Spanner: Allows you to use the device USB port with most NMEA 0183-compliant mapping programs by creating a virtual serial port.

Garmin Serial: Sets the device to use a Garmin proprietary format to exchange waypoint, route, and track data with a computer.

NMEA In/Out: Sets the device to use standard NMEA 0183 output and input.

Text Out: Provides simple ASCII text output of location and velocity information.

Display Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Display**.

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

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 26).

Appearance: Changes the appearance of the display background and selection highlight (*Changing the Color Mode*, page 26).

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

Review Text Size: Changes the size of the text on the screen.

Turning On Battery Save Mode

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

1 Press **MENU** twice to open the main menu.

2 Select **Setup** > **Display** > **Battery Save** > **On**.

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

Changing the Color Mode

1 Press **MENU** twice to open the main menu.

2 Select **Setup** > **Display** > **Appearance**.

3 Select an option:

- To allow the device to display day or night colors automatically based on the time of day, select **Mode** > **Auto**.
- To use a light background, select **Mode** > **Day**.
- To use a dark background, select **Mode** > **Night**.
- To customize the color scheme for daytime, select **Day Color**.
- To customize the color scheme for nighttime, select **Night Color**.

Routing Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Routing**.

NOTE: The available routing settings vary based on the activity selected.

Activity: Sets an activity for 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 when the Direct Routing option is enabled. The Distance option routes you to the next point on the route when you are within a specified distance of your current point.

Turning On Expedition Mode

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

1 Press **MENU** twice to open the main menu.

2 Select **Setup** > **Expedition Mode**.

3 Select an option:

- To enable the device to prompt you to turn on expedition mode when you turn off the device, select **Prompted**.
- To automatically turn on expedition mode after two minutes of inactivity, select **Auto**.
- To never turn on expedition mode, select **Never**.

Setting the Device Tones

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

1 Press **MENU** twice to open the main menu.

2 Select **Setup** > **Tones** > **Tones** > **On**.

3 Select a tone for each audible type.

Geocaching Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Geocaching**.

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

Filter Setup: Allows you to create and save custom filters for geocaches (*Saving a Custom Geocache Filter*, page 22).

Found Geocaches: Allows you to edit the number of geocaches found. This number automatically increases when you log a find (*Logging the Attempt*, page 23).

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

Marine Settings

Press **MENU** twice to open the main menu. 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*, page 27).

Setting Up Marine Alarms

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Marine** > **Marine Alarm Setup**.
3. Select an alarm type.
4. Enter a distance, and select **Done**.

Menu Settings

Press **MENU** twice to open the main menu. Select **Setup** > **Menus**.

Menu Style: Changes the appearance of the main menu.

Main Menu: Allows you to move, add, and delete items in the main menu (*Customizing the Main Menu*, page 27).

Page Sequence: Allows you to move, add, and delete items in the page sequence (*Changing the Page Sequence*, page 28).

Setup: Changes the order of items in the setup menu.

Find: Changes the order of items in the find menu.

Customizing the Main Menu

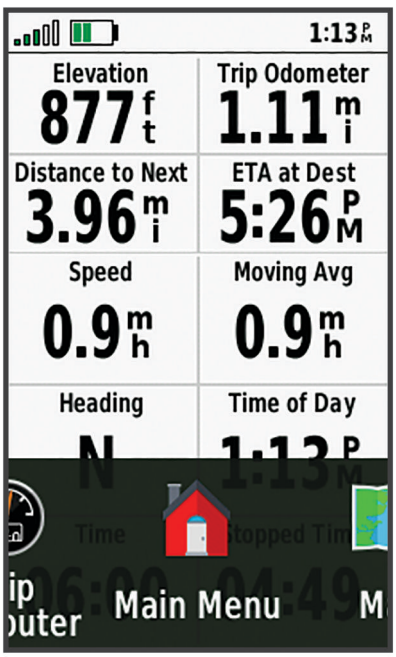
You can move, add, and delete items in the main menu.

1. Press **MENU** twice to open the main menu.
2. Press **MENU**.
3. Select **Change Item Order**.
4. Select a menu item.
5. Select an option:
   - Select **Move** to change the placement of the item in the list.
   - Select **Insert** to add a new item to the list.
   - Select **Remove** to delete an item from the list.

Changing the Page Sequence

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Menus** > **Page Sequence** > **Edit Page Sequence**.
3. Select a page.
4. Select an option:
   - To move the page up or down in the list, select **Move**.
   - To add a new page to the page sequence, select **Insert**, and select a category.
   - To remove a page from the page sequence, select **Remove**.

   TIP: You can press **PAGE** to view the page sequence.



Configuring the Page Ribbon Display

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Menus** > **Page Sequence** > **Page Ribbon Display**.
3. Select an option:
   - To disable the page ribbon display, select **Off**.
   - To set the speed at which a page opens after being selected in the page ribbon display, select **Slow** or **Fast**.

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.

Press **MENU** twice to open the main menu. 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

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Units**.
3. Select an option:
   - To change the unit of measure for speed and distance, select **Speed/Distance**.
   - To change the unit of measure for vertical speed, select **Vertical Speed**.
   - To change the unit of measure for elevation, select **Elevation** > **Elevation**.
   - To change the unit of measure for depth, select **Elevation** > **Depth**.
   - To change the unit of measure for temperature, select **Temperature**.
4. Select a unit of measure.

Time Settings

Press **MENU** twice to open the main menu. 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. The Automatic option sets the time zone automatically based on your GPS position.

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

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.

Creating a Custom Profile

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

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Profiles** > **Create Profile** > **OK**.

   The new profile is created with a default name and number. For example, Profile 10. The new profile becomes the active profile.
3. Select the new profile.
4. Select an option:
   - Customize the default profile name (*Editing a Profile Name*, page 29).
   - Customize your settings as necessary (*Setup Menu*, page 24).
   - Customize the data fields as necessary (*Customizing the Data Fields*, page 24).

Any changes you make to the settings and data fields are automatically saved to the active profile.

Editing a Profile Name

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Profiles**.
3. Select a profile.
4. Select **Edit Name**.
5. Enter the new name.

Deleting a Profile

NOTE: You cannot delete a profile while it is in use.

1. Press **MENU** twice to open the main menu.
2. Select **Setup** > **Profiles**.
3. Select a profile.
4. Select **Delete**.

Resetting Data and Settings

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

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

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

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

Restoring Default Page Settings

1. Press **PAGE** or **QUIT** to scroll to the page for which you will restore the settings.
2. Press **MENU**.
3. Select **Restore Defaults**.

Device Information

Product Updates

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

This provides easy access to these services for Garmin devices:

- Software updates
- Map updates
- Product registration

Setting Up Garmin Express

NOTICE

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

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

Getting More Information

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

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

Attaching a Lanyard

1 Insert the loop of the lanyard through the slot in the device.

2 Thread the other end of the lanyard through the loop, and pull it tight.

3 If necessary, attach the lanyard to your clothing or backpack to tether it during an activity.

Device Care

NOTICE
To prevent corrosion, thoroughly dry the USB port, the serial port, the weather cap, and the surrounding area before connecting to a computer or external cable.
Secure the weather cap tightly to prevent damage to the USB port or the serial port.
The device is water resistant to IEC Standard 60529 IPX6 (unit level only) and IPX7. It can withstand accidental immersion in 1 meter of water for 30 minutes, and is protected against powerful jets of water. Prolonged submersion can cause damage to the device. After submersion, be certain to wipe dry and air dry the device before using or connecting to a computer or external cable.
Thoroughly rinse the device with fresh water after exposure to chlorinated or salt water environments.
Avoid chemical cleaners, solvents, sunscreen, and insect repellents that can damage plastic components and finishes.
Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.
Avoid extreme shock and harsh treatment, because it can degrade the life of the product.

Cleaning the Device

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

2 Wipe it dry.

After cleaning, allow the device to dry completely.

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:

- GPX route, track, and waypoint files.
- GPX geocache files (*Downloading Geocaches Using a Computer*, page 21).
- 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 in the GPSMAP 79s/sc Device

⚠ WARNING

Do not use a sharp object to remove user-replaceable batteries.

You can install a microSD memory card, up to 32 GB, 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.
3. Slide the card holder ① to **OPEN**, and lift up.
4. Place the memory card with the gold contacts facing down.

5. Close the card holder.
6. Slide the card holder to **LOCK** to lock it.
7. Replace the batteries and cover.

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.

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

1. Pull up the weather cap from the USB port.
2. Plug the small end of the USB cable into the USB port on the device.
3. 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

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.

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

Using Garmin Connect

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

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.

1. 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**.
2. Disconnect the cable from your computer.

Specifications

Battery type	Two AA batteries (1.5 V or lower alkaline, NiMH, or lithium) or optional NiMH battery pack
Battery life	Up to 19 hr.
Water rating	IEC 60529 IPX6 (unit level only) and IPX7[1]
Operating temperature range	From -20° to 60°C (from -4° to 140°F)
Compass-safe distance	17.5 cm (7 in.)

Viewing E-label Regulatory and Compliance Information

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

1. Press **MENU** twice to open the main menu.
2. Select **Setup**.
3. Select **About**.

[1] The device withstands incidental exposure to water of up to 1 m for up to 30 min, and is protected against powerful jets of water. For more information, go to www.garmin.com/waterrating.

Appendix

Data Fields

Some data fields require you to be navigating to display data.

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

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

Alarm Timer: The current time of the countdown timer.

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

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

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.

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

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

Current Lap: The stopwatch time for the current lap.

Date: The current day, month, and year.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Heading: The direction you are moving.

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

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

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

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

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

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

None: This is a blank data field.

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

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

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

Speed: The current rate of travel.

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

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

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

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

Stopwatch Timer: The stopwatch time for the current activity.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Optional Accessories

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

Troubleshooting

Maximizing Battery Life

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

- Reduce the backlight brightness (*Adjusting the Backlight*, page 6).
- Reduce the backlight timeout (*Display Settings*, page 25).
- Use battery save mode (*Turning On Battery Save Mode*, page 26).
- Use expedition mode (*Turning On Expedition Mode*, page 26).
- Turn off additional satellite systems (*Satellite Settings*, page 25).

Restarting the Device

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

1. Remove the batteries.
2. Reinstall the batteries.
3. Hold ⏻.

My device is in the wrong language

You can change the device language selection if you have accidently selected the wrong language on the device.

1. Press **MENU** twice to open the main menu.
2. Select .
3. Select .
4. Select the second item in the list.
5. Select your language.

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