



MONTANA™ 600 series quick start manual

for use with models 600, 650, 650t



Getting Started

WARNING


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

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

1. Install the batteries ([page 3](#)).
2. Turn on the device ([page 5](#)).
3. Register the device ([page 5](#)).
4. Acquire satellites ([page 5](#)).
5. Calibrate the compass ([page 6](#)).
6. Mark a waypoint ([page 7](#)).
7. Create a route ([page 8](#)).
8. Record a track ([page 8](#)).
9. Navigate to a destination ([page 10](#)).

Device Overview



①	Camera lens (650 and 650t only)
②	 Power key
③	microSD™ card slot (under battery door)
④	Power connector for optional accessory mounts
⑤	Stereo headphone jack
⑥	Mini-USB port (under weather cap)
⑦	Battery cover D-ring
⑧	MCX port for external GPS antenna (under weather cap)

Battery Information

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.


The temperature rating for the device (-4°F to 158°F, or -15 to 70°C) may exceed the usable range of some batteries. Alkaline batteries can rupture at high temperatures.

NOTICE

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

The device operates on the included lithium-ion battery pack or three AA batteries.

Installing the Lithium-ion Battery Pack

1. Turn the D-ring counter-clockwise, and pull up to remove the cover.
2. Locate the battery  that came in the product box.



3. Align the metal contacts on the battery with the metal contacts in the battery compartment.
4. Insert the battery into the compartment, contacts first.
5. Gently press the battery into place.
6. Replace the battery cover, and turn the D-ring clockwise.

Charging the Lithium-ion Battery Pack

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 use the device the first time, fully charge the battery. Charging a depleted battery takes 4½ hours. The device will not charge when outside the temperature range of 32°F to 113°F (0°C to 45°C).

1. Plug the AC charger into a standard wall outlet.
2. Pull up the weather cap ① from the mini-USB port ②.



3. Plug the small end of the AC charger into the mini-USB port.
4. Charge the device completely.

Removing the Lithium-ion Battery Pack

⚠ WARNING

To prevent damage to the battery and possible injury, do not use a sharp object to remove batteries.



1. Remove the battery cover.
2. Pull up on the side of the battery that is closer to the ⏻ key.

Installing AA Batteries

Instead of the lithium-ion battery pack, you can use alkaline, NiMH, or lithium batteries. This is especially useful when you are on the trail and cannot charge the lithium-ion battery pack. Use NiMH or lithium batteries for best results.

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.
4. Hold  (page 2).
5. Select  > **Setup** > **System** > **AA Battery Type**.
6. Select **Alkaline**, **Lithium**, or **Rechargeable NiMH**.


Turning the Device On or Off

Hold  (page 2).

Registering Your Device

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

Satellite Signals


After the device is turned on, it begins acquiring satellite signals. The device may need a clear view of the sky to acquire satellite signals. When the  bars turn green, your device has acquired satellite signals. The time and date are set automatically based on the GPS position.

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

Adjusting the Backlight Brightness

NOTE: The backlight brightness may be limited when the remaining capacity in the batteries is low.

Extensive use of screen backlighting can significantly reduce battery life.

1. While the device is on, press .
2. Use the backlight slider bar to adjust the brightness level.

About the Main Menu



①	Status bar
②	Current time and date
③	Application icons
④	Application drawer containing more application icons

Customizing the Main Menu and the Application Drawer

- Hold any icon on the main menu or application drawer, and drag it to a new location.


- Open the application drawer, and drag an icon up to the main menu.
- To drag an icon to a new menu page, select and drag the icon over the left or right arrows.

Calibrating the Compass

NOTICE

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

You should calibrate the compass after moving long distances, experiencing temperature changes, or changing the batteries.

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

Selecting a Profile

Profiles are a collection of settings that optimize your device based on how you are using it. For example, your settings and views can be different when you are using the device for geocaching and for navigating on water.

1. Select  > **Profile Change**.
2. Select a profile.

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. Select an option:
 - To save the waypoint without changes, select **Save**.


- To make changes to the waypoint, select **Edit**, make changes to the waypoint, and select **Save**.

Finding a Waypoint

1. Select **Where To?** > **Waypoints**.
2. Select a waypoint.

Increasing the Accuracy of a Waypoint Location

Waypoint Averaging allows you to increase the accuracy of a waypoint location by collecting multiple samples of the waypoint location.

1. Select  > **Waypoint Averaging**.
2. Select a waypoint.
3. Move to the location.
4. Select **Start**.
5. When the Sample 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.

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.

Finding a Location by Name

Depending on the maps loaded on your device, you can search for cities, geographic points, and various points of interest (POIs), such as restaurants, hotels, and auto services.



1. Select **Where To?**.
2. Select a category.
3. Select .
4. Enter the name or part of the name.
5. Select .

Finding a Location Near Another Location

1. Select **Where To?** >  > **Search Near**.
2. Select an option.
3. If necessary, select a location.

Creating a Route

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

1. Select  > **Route Planner** > **Create Route** > **Select First Point**.
2. Select a category.
3. Select the first point in the route.
4. Select **Use** > **Select Next Point**.
5. Repeat steps 2–4 until the route is complete.
6. Select  to save the 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.

Recording Track Logs

1. Select  > **Setup** > **Tracks** > **Track Log**.

2. Select **Record, Do Not Show or Record, Show On Map**.

If you select **Record, Show On Map**, a line on the map indicates your track.

3. Select **Record Method**.
4. 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**.
5. Select **Interval**.
6. Complete an action:
 - 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.

- Enter a time or distance, and select .

As you move with the device turned on, a track log is created.

Starting a TracBack®

You can navigate back to the beginning of a track. This can be helpful when finding your way back to camp or the trail head.

1. Select  > **Track Manager** > **Current Track** > **View Map**.
2. Select **TracBack**.

The map page opens with your route marked with a magenta line.
3. Navigate using the map ([page 10](#)) or compass ([page 10](#)).

Navigating to a Destination

You can navigate to a destination using the map or compass.

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

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

5. Navigate using the map (page 10) or compass (page 10).


Using the Map

1. Select **Map**.

The ▲ position icon represents your location on the map. As you travel, the position icon moves.

2. 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, and select the information bar at the top of the screen to view information about the selected location (represented by a pin).

TIP: To customize the map view, select  > **Setup Map**, and adjust the settings.




Navigating with the Bearing Pointer

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

1. Begin navigation to a destination (page 10).
2. Select **Compass**.
3. Turn until ▲ points toward the top of the compass, and continue moving in that direction to the destination.

Taking a Photo

You can take photos with the Montana 650 and 650t.

1. Select  > **Camera**.
2. Turn the device horizontally or vertically to change the orientation of the photo.
3. If necessary, select + or - to zoom in or out.
4. Hold  to focus.
5. Release  to take a photo.

Downloading Geocaches

1. Connect your device to a computer.
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.

Troubleshooting

Resetting the Device

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

1. Remove the batteries.
2. Reinstall the batteries ([page 3](#)).

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

Getting the Manuals from the Device

1. Connect the USB cable to a USB port on your computer.
2. Pull up the weather cap from the mini-USB port.
3. Plug the small end of the USB cable into the mini-USB port.
4. Open the “Garmin” drive or volume.
5. Open the **Garmin\Documents** folder or volume.
6. Double-click **START HERE.html**.

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.

Contacting Garmin Product Support

- Go to www.garmin.com/support and click **Contact Support** for in-country support information.
- In the USA, call (913) 397.8200 or (800) 800.1020.
- In the UK, call 0808 2380000.
- In Europe, call +44 (0) 870.8501241.

Garmin® and the Garmin logo are trademarks of Garmin Ltd. or its subsidiaries, registered in the USA and other countries. Montana™ is a trademark of Garmin Ltd. or its subsidiaries. These trademarks may not be used without the express permission of Garmin. microSD™ is a trademark of SD-3C, LLC. Other trademarks and trade names are those of their respective owners.

© 2011 Garmin Ltd. or its subsidiaries

Garmin International, Inc.
1200 East 151st Street, Olathe, Kansas
66062, USA

Garmin (Europe) Ltd.
Liberty House, Hounslow Business Park,
Southampton, Hampshire, SO40 9LR UK

Garmin Corporation
No. 68, Zhangshu 2nd Road, Xizhi Dist.,
New Taipei City, 221, Taiwan (R.O.C.)

www.garmin.com

April 2011

190-01330-01 Rev. A

Printed in Taiwan

