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.

# Device Information

## Viewing Device Information

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

Select **Setup** > **About**.

## Updating the Software

Before you can update the handheld device or collar software, you must connect the handheld device (page 47) or the collar (page 47) to the computer.

You must update the software on the handheld device and collar separately.

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

1. Go to www.garmin.com/products/webupdater.
2. Follow the on-screen instructions.

## 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 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.

## Specifications

### Alpha 100 Handheld Device Specifications

| | |
|---|---|
| Battery type | Rechargeable, replaceable lithium-ion |
| Battery life | Up to 20 hr. |
| Operating temperature range | From -4° to 140°F (from -20° to 60°C) |
| Charging temperature range | From 32° to 104°F (from 0° to 40°C) |
| Long-term storage temperature range | From 32° to 77°F (from 0° to 25°C) |
| VHF wireless range | Up to 9 mi. |
| ANT+ low power wireless range | About 10 ft. (3 m) |
| Water rating | IEC 60529 IPX7* |

*The device withstands incidental exposure to water of up to 1 m for up to 30 min.

### TT 15 Dog Collar Device Specifications

| | |
|---|---|
| Battery type | Rechargeable, replaceable lithium-ion |
| Battery life | 20 to 40 hr.<br>Battery life is determined by which handheld device is being used. |
| Operating temperature range | From -4° to 140°F (from -20° to 60°C) |
| Charging temperature range | From 32° to 104°F (from 0° to 40°C) |
| Short-term storage temperature range | From -4° to 104°F (from -20° to 40°C) |

| | |
|---|---|
| Long-term storage temperature range | From -4° to 77°F (from -20° to 25°C) |
| Water rating | 1 ATM* |

*The device withstands pressure equivalent to a depth of 10 m.

## 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.

Do not use a sharp object to remove batteries.

**⚠ CAUTION**

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

### Long-Term Storage

***NOTICE***

The normal long-term decrease in the charging capacity of lithium-ion batteries can be accelerated by exposure to elevated temperatures. Storing a fully charged device in a location with a temperature outside the long-term storage temperature range can significantly reduce its recharging capacity.

When you do not plan to use the handheld device for several months, the battery should be removed. Stored data is not lost when the battery is removed.

When you do not plan to use the collar for several months, the battery should be charged to about 50%. The device should be stored in a cool, dry place with temperatures around the typical household level. After storage, the collar should be fully recharged before use.

### Maximizing the Battery Life

You can do several things to extend the life of the batteries in the handheld device and collar.

- Reduce the backlight brightness (page 44).
- Reduce the backlight timeout (page 44).
- Select a longer duration for your handheld update rate (page 44).
- Turn off the transmitter (page 45).
- Use battery save mode (page 45)
- Decrease the map drawing speed (page 45).
- Put the dog collar device into rescue mode (page 23) to conserve the collar battery.
- Extend the duration for the collar update rate (page 44) to conserve the collar battery.

### *Adjusting the Backlight Brightness*

Extensive use of screen backlighting can significantly reduce battery life. You can adjust the backlight brightness to maximize the battery life.

**NOTE:** The backlight brightness may be limited when the battery is low.

1. Select ⏻.
2. Use the slider bar to adjust the backlight brightness.

The device may feel warm when the backlight setting is high.

### *Adjusting the Backlight Timeout*

You can decrease the backlight timeout to maximize the battery life.

1. Select **Setup** > **Display** > **Backlight Timeout**.
2. Select an option.

### *Changing the Dog Collar Device Update Rate*

Before you can change the collar update rate, the collar must be turned on and within range of the handheld device.

You can select a longer duration for the update rate to conserve battery power.

1. Select **Dog List**.
2. Select a dog.
3. Select **Show Info** > ☰ > **Change Update Rate**.

### *Changing Your Handheld Update Rate*

You can select a longer duration for the update rate to conserve battery power.

1. Select **Setup** > **Contacts** > **Pairing Setup** > **Update Rate**.
2. Select a new update rate.

***Turning On the Handheld Battery Save Mode***

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

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

When in battery save mode, the screen shuts off when the backlight times out.

***Adjusting the Map Drawing Speed***

You can reduce the map drawing speed to conserve battery power.

Select **Setup** > **Map** > **Map Speed** > **Normal**.

***Turning On the Transmitter***

Before you can add a contact or initiate an emergency alert, you must ensure the transmitter is enabled.

**NOTE**: In cold temperatures, if you transmit when the battery is low, the device may shut down.

Select **Setup** > **Contacts** > **Pairing Setup** > **Transmitting** > **On**.

***Turning Off the Transmitter***

You can disable transmitting to conserve battery power on the handheld device when you are not communicating with contacts.

**NOTE**: At cold temperatures, if you transmit when the battery is low, the device may shutdown.

Select **Setup** > **Contacts** > **Pairing Setup** > **Transmitting** > **Off**.

When the transmitter is off, you cannot send your location or messages to contacts.

## Saving Energy While Charging the Device

You can turn off the device display and all other features while charging.

1. Connect your device to an external power source.

   The remaining battery capacity appears.
2. Hold the power key for 4 to 5 seconds.

   The display turns off, and the device goes into a low power, battery charging mode.

3 Charge the device completely.

## Data Management

You can store files on your device. The device has a memory card slot for additional data storage.

**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. Go to www.garmin.com/trip_planning.
- JPEG photo files.
- GPX geocache files. Go to www.opencaching.com.
- GPI custom POI files from the Garmin POI Loader. Go to www.garmin.com/products/poiloader.

### Installing a Memory Card

**⚠ WARNING**

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

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

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

2 Remove the battery.

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 **CLOSE** to lock it.

7 Replace the battery and cover.

## Connecting the Handheld Device to a Computer

**NOTICE**

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

1 Lift the weather cap ①.


2 Plug the small end of the USB cable into the mini-USB connector ② on the device.

3 Plug the other end of the USB cable into an available USB port on the computer.

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

## Connecting the Collar to a Computer

**NOTICE**

To prevent corrosion, you should dry the contacts on the collar and the surrounding area before connecting the charging clip.

You can connect the collar to your computer to use with programs like BaseCamp. The collar is not a mass storage device.

1 Snap the charging clip onto the collar.

2 Plug the small end of the USB cable into the mini-USB port on the charging clip cable.

3 Plug the other end of the USB cable into a USB port on the computer.

## Transferring Dog Tracks to BaseCamp

You can transfer the dog tracks to BaseCamp.

1. Connect the collar to the computer (page 47).

   The collar turns on automatically.
2. Select ⏻.
3. Open BaseCamp.

   BaseCamp recognizes and transfers the collar's internal track log.

### 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.

# Appendix

## Accessories and Replacement Parts

### Purchasing Accessories

Go to http://buy.garmin.com.

#### *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.

## ANT+ Sensors

Your device can be used with wireless ANT+ sensors. For more information about compatibility and purchasing optional sensors, go to http://buy.garmin.com.

### *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.

### *Using Optional Fitness Accessories*

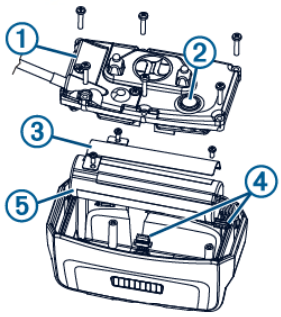
1. Bring the device within range 10 feet (3 m) of the ANT+ accessory.
2. Select ^ > **Setup** > **Fitness**.
3. Select **Heart Rate Monitor** or **Bike Cadence Sensor**.
4. Select **Search for New**.
5. Customize the data fields to view the heart rate or cadence data (page 35).

### *Tips for Pairing ANT+ Accessories with Your Garmin Device*

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

## TT 15 Battery Replacement Instructions

### *TT 15 Components*




| | |
|---|---|
| ① | Back plate |
| ② | Power key |
| ③ | Battery cover |
| ④ | Connectors |
| ⑤ | Battery |

### *Removing the Old Battery*

Before you replace the battery, you must remove all dirt, water, and debris from the device. You must also have a small Phillips screwdriver.

1. Remove the six screws from the outer edges of the back plate.

   **NOTE:** You should leave the two inner screws in place.
2. Pry off the back plate.
3. Disconnect the battery connector and power connector.
4. Remove the screws that secure the battery cover.
5. Remove the battery cover and the battery.

   Remember the orientation of the battery. You must install the new battery the same way.

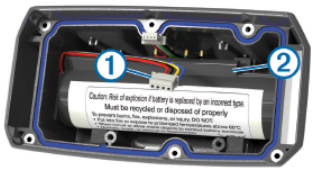
After you remove the old battery, contact your local waste disposal department to properly recycle the battery.

### *Installing the New Battery*

Before you replace the battery, you must remove the old battery (page 50). You also must have a small Phillips screwdriver. You may need a small flat screwdriver.

1. Install the new battery using the same orientation as the old battery.

The connector ① should face the end nearest the power key, and the bump ② where the wires connect to the battery should face toward the side with the charging clip contacts.




2 Replace the battery cover.

3 Replace the screws to secure the battery cover.

4 Connect the battery connector and power connector.

You may need to use a flat screwdriver to help secure the connectors.

5 Select the power key to test the connections.

When properly connected, a tone is emitted and the status LED blinks green.

6 Turn off the device.

7 Verify the gasket located inside the bottom cover is fully seated.

8 Replace the back plate.

9 Replace the six screws to secure the back plate.

After you install the new battery, charge the collar completely.

## Replacing the Collar Strap

Before you replace the collar strap, you must remove all dirt, water, and debris from the device (page 41).

1 Pull the collar strap out of the GPS antenna, VHF antenna guide, and the dog device.

You may need to push and pull the collar strap to properly remove it. You may need to loosen the screw on the GPS antenna case, but do not remove them.

2 Thread the new collar strap through the dog device, VHF antenna guide, and GPS antenna.

3 If necessary, tighten the screws that secure the GPS antenna case.

## Replacing the VHF Antenna in the Dog Collar Device

**NOTICE**

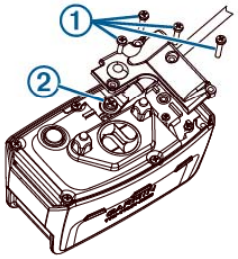
Do not excessively bend the band that connects the main device case with the GPS antenna.

When the L-shaped cover is removed, do not disturb the sealant opposite the VHF antenna, because this can damage the waterproof seal of the dog collar device.

Before you replace the VHF antenna, you must remove all dirt, water, and debris from the device (page 41). Also, you need a small Phillips screwdriver.

1. Remove the 4 screws ① from the L-shaped cover over the VHF antenna.

   **NOTE:** You should note the location of the one short screw.
2. Pry off the L-shaped cover.




3. Remove the screw ② securing the VHF antenna to the back plate.
4. Pull the length of the antenna from the antenna guide to remove the old antenna.
5. Loop the antenna guide around the collar strap, and thread the new VHF antenna through the guide.

   This helps to point the antenna up.
6. Replace the screw securing the VHF antenna to the back plate.
7. Replace the L-shaped cover over the VHF antenna.
8. Replace the 4 screws on the L-shaped cover, replacing the short screw in the correct location.

### Changing the Fuse in the Vehicle Power Cable

**NOTICE**

When replacing the fuse, do not lose any of the small pieces and make sure they are put back in the proper position. The vehicle power cable does not work unless it is assembled correctly.

If your device does not charge in your vehicle, you may need to replace the fuse located at the tip of the vehicle adapter.

1. Rotate the end piece ① 90 degrees counter clockwise to unlock it.


   **TIP**: You may need to use a coin to remove the end piece.

2. Remove the end piece, the silver tip ②, and the fuse ③.
3. Insert a new fast-blow fuse that has the same current, such as 1 A or 2 A.
4. Place the silver tip in the end piece.
5. Push in the end piece and rotate it 90 degrees clockwise to lock it back into the vehicle power cable ④.

## Data Field Options

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

**Ambient Pressure**: The uncalibrated environmental pressure.

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

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

**Ascent - Total**: The total elevation distance ascended since the last reset.

**Barometer**: The calibrated current pressure.

**Battery Level**: The remaining battery power.

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

**Cadence**: The revolutions of the crank arm or strides per minute. Your device must be connected to a cadence accessory.

**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.

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

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

**Descent - Total**: The total elevation distance descended since the last reset.

**Distance to Destination**: 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.

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

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

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

**ETA at Destination**: The estimated time of day 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 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 Signal Strength**: The strength of the GPS satellite signal.

**Heading**: The direction you are moving.

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

**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.

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

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

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

**Speed**: The current rate of travel.

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

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

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

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

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

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

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

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

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

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

**Trip Odometer**: A running tally of the distance traveled 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.

**Trip Time - Total**: A running tally of the total time spent moving and 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 Speed**: The rate of ascent or descent over time.

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

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

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

# Index

## www.garmin.com/support

| | |
|---|---|
| +43 (0) 820 220230 | + 32 2 672 52 54 |
| 0800 770 4960 | 1-866-429-9296 |
| +385 1 5508 272<br>+385 1 5508 271 | +420 221 985466<br>+420 221 985465 |
| + 45 4810 5050 | + 358 9 6937 9758 |
| + 331 55 69 33 99 | + 39 02 36 699699 |
| (+52) 001-855-792-7671 | 0800 0233937 |
| +47 815 69 555 | 00800 4412 454<br>+44 2380 662 915 |
| (+35) 1214 447 460 | +386 4 27 92 500 |
| 0861 GARMIN (427 646)<br>+27 (0)11 251 9999 | +34 93 275 44 97 |
| + 46 7744 52020 | +886 2 2642-9199 ext 2 |
| 0808 238 0000<br>+44 (0) 870 8501242 | +49 (0)180 6 427646<br>20 ct./Anruf. a. d. deutschen Festnetz,<br>Mobilfunk max. 60 ct./Anruf |
| 913-397-8200<br>1-800-800-1020 | |

## Part Information

| | |
|---|---|
| GPN: | 190-01786-00 |
| Description: | Alpha 100 with TT15 Owner's Manual (EN-US) |
| Part Type: | Manuals / Printed Literature |
| Lifecycle Phase: | Production |
| Rev: | A IR#059138 |

### Item Attribution

| | |
|---|---|
| Document Review Required: | |
| Item Notes: | |
| Preferred Rating: | |
| ESD Sensitive: | |
| Moisture Sensitive: | |
| Limited Shelf Life: | |
| Magnetic Sensitive: | |

GARMIN

## Important Safety and Product Information

**⚠ WARNING**

Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

**Navigation Warnings**

If your Garmin® device uses or accepts mapping products, follow these guidelines to ensure safe navigating.

- Always carefully compare information displayed on the device to all available navigation sources, including information from visual sightings, local waterway rules and restrictions, and maps. For safety, always resolve any discrepancies or questions before continuing navigation, and defer to posed signs and conditions.
- Use this device only as a navigational aid. Do not attempt to use the device for any purpose requiring precise measurement of direction, distance, location, or topography.

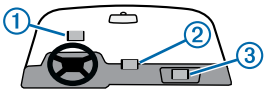
**Off-Road Navigation Warnings**

If your Garmin device is able to suggest off-road routes for various outdoor activities, such as biking, hiking, and all-terrain vehicles, follow these guidelines to ensure safe off-road navigation.

- Always use your best judgment and exercise common sense when making off-road navigational decisions. The Garmin device is designed to provide route suggestions only. It is not a replacement for attentiveness and proper preparation for outdoor activities. Do not follow the route suggestions if they suggest an illegal course or would put you in an unsafe situation.
- Always carefully compare information displayed on the device to all available navigation sources, including trail signs, trail conditions, weather conditions, and other factors that may affect safety while navigating. For safety, always resolve any discrepancies before continuing navigation, and defer to posted signs and conditions.
- Always be mindful of the effects of the environment and the inherent risks of the activity before embarking on off-road activities, especially the impact that weather and weather-related trail conditions can have on the safety of your activity. Ensure that you have the proper gear and supplies for your activity before navigating along unfamiliar paths and trails.

**Vehicle Installation Warnings**

- When installing the device in a vehicle, place the device securely so it does not obstruct the driver's view of the road ① or interfere with vehicle operating controls, such as the steering wheel, foot pedals, or transmission levers. Do not place unsecured on the vehicle dashboard ②. Do not place the device in front of or above any airbag ③.




- The windshield mount may not stay attached to the windshield in all circumstances. Do not place the mount where it will become a distraction if it should become detached. Keep your windshield clean to help ensure that the mount stays on the windshield.

**Street Navigation Warnings**

If your Garmin device accepts street maps and suggests routes that follow roads, follow these guidelines to ensure safe on-road navigation.

- Always use your best judgment, and operate the vehicle in a safe manner. Do not become distracted by the device while driving, and always be fully aware of all driving conditions. Minimize the amount of time spent viewing the device screen while driving.
- Do not input destinations, change settings, or access any functions requiring prolonged use of the device controls while driving. Pull over in a safe and legal manner before attempting such operations.
- When navigating, carefully compare information displayed on the device to all available navigation sources, including road signs, road closures, road conditions, traffic congestion, weather conditions, and other factors that may affect safety while driving. For safety, always resolve any discrepancies before continuing navigation, and defer to posted signs and conditions.
- The device is designed to provide route suggestions. It is not a replacement for driver attentiveness and good judgement. Do not follow route suggestions if they suggest an illegal maneuver or would place the vehicle in an unsafe situation.

**Battery Warnings**

A replaceable lithium-ion battery pack can be used with the dog collar device. The handheld device can use either a lithium-ion battery pack or replaceable alkaline or NiMH batteries. Refer to the handheld device specifications in the manual for more information about the battery type used in your specific handheld device model.

If these guidelines are not followed, batteries may experience a shortened life span or may present a risk of damage to the device, fire, chemical burn, electrolyte leak, and/or injury.

- Do not leave the device exposed to a heat source or in a high-temperature location, such as in the sun in an unattended vehicle. To prevent the possibility of damage, remove the device from the vehicle or store it out of direct sunlight, such as in the glove box.
- Do not disassemble, modify, remanufacture, puncture or damage the device or batteries.
- Do not immerse or expose the device or batteries to water or other liquids, fire, explosion, or other hazard.
- Do not use a sharp object to remove the removable batteries.
- Keep batteries away from children.
- Do not use a power and/or data cable that is not approved or supplied by Garmin.
- If using an external battery charger, only use the Garmin accessory approved for your product.
- Only replace batteries with correct replacement batteries. Using other batteries presents a risk of fire or explosion. To purchase replacement batteries, see your Garmin dealer or the Garmin website.
- Do not operate the device outside of the temperature ranges specified in the printed manual in the product packaging.
- When storing the device for an extended time period, store within the temperature ranges specified in the printed manual in the product packaging.
- Do not leave the dog device where a dog may attempt to chew on it. If the battery cell is punctured, electrolyte can be released that can be harmful to the dog.
- Contact your local waste disposal department to dispose of the device/batteries in accordance with applicable local laws and regulations.

**FCC Warnings**

**Exposure to Radio Frequency Signals**–Your device is a radio transmitter and receiver. When it is on, it receives and also sends out radio frequency (RF) signals.

**Antenna Care**–Use only the supplied antenna or a recommended antenna accessory. Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations. Warning: Do not use any radio that has a damaged antenna, because if it comes into contact with your skin, a minor burn can result.

**Electronic Devices**–Most modern electronic equipment is shielded from RF signals. However, certain equipment may not be shielded against the RF signals from your wireless radio.

**Pacemakers**–The Health Industry Manufacturers Association (HIMA) and Wireless Technology Research recommend that a minimum separation of six inches (6") be maintained between a handheld wireless radio and a pacemaker to avoid potential interference with the pacemaker. Persons with pacemakers should ALWAYS keep the radio more than six inches from their pacemaker when the radio is turned on, should not carry the radio in a breast pocket, and should turn the radio off immediately if you have any reason to suspect that interference is taking place.

**Hearing Aids**–Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

**Posted Facilities**–Turn your radio OFF in any facility where posted notices so require.

**Vehicles**–RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

**Commercial Aircraft**–Many commercial airlines prohibit the use of radios on board. Switch OFF your radio before boarding an aircraft or check the airline rules.

**Potentially Explosive Atmospheres**–Turn your radio OFF and do not remove your battery when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death.

***NOTICE***

**Windshield Mounting Legal Restrictions**

Before using the suction cup mount on your windshield, check the state and local laws and ordinances where you drive. Some state laws prohibit drivers from using suction mounts on their windshields while operating motor vehicles. Other state laws allow the suction mount to be located only in specific locations on the windshield. Many other states have enacted restrictions against placing objects on the windshield in locations that obstruct the driver's vision. **IT IS THE USER'S RESPONSIBILITY TO MOUNT THE DEVICE IN COMPLIANCE WITH ALL APPLICABLE LAWS AND ORDINANCES.**Where required, other Garmin dashboard or friction mount options should be used. Always mount your Garmin device in a location that does not obstruct the driver's view of the road. Garmin does not assume any responsibility for any fines, penalties, or damages that may be incurred as a result of any state or local law or ordinance relating to the use of your Garmin device.

**Legal Restrictions**

SPECIAL NOTICE TO USERS IN CALIFORNIA AND ALASKA: State law in California prohibits the use of GPS dog collars for the pursuit of mammals. Alaska law prohibits guides from using GPS devices to assist in the taking of big game animals. This is not intended to be an exhaustive list of applicable laws and ordinances, and Garmin makes no such guarantees or warranties that this list is complete. Check your state and local laws and ordinances to ensure you fully understand any restrictions applicable to this product in your jurisdiction prior to purchase and/or use. Garmin does not assume any responsibility for any fines, penalties, or damages that may be incurred as a result of any state or local law or ordinance relating to use of the product.

**Product Environmental Programs**

Information about the Garmin product recycling program and WEEE, RoHS, REACH, and other compliance programs can be found at www.garmin.com/aboutGarmin/environment.

**Declaration of Conformity**

Hereby, Garmin declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. To view the full Declaration of Conformity, go to www.garmin.com/compliance.

**Industry Canada Compliance**

Category I radiocommunication devices comply with Industry Canada Standard RSS-210. Category II radiocommunication devices comply with Industry Canada Standard RSS-310. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**FCC Compliance**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet that is on a different circuit from the GPS device.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations.

**Software License Agreement**

BY USING THE DEVICE, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Garmin Ltd. and its subsidiaries ("Garmin") grant you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin and/or its third-party providers.

You acknowledge that the Software is the property of Garmin and/or its third-party providers and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software, for which source code is not provided, are valuable trade secrets of Garmin and/or its third-party providers and that the Software in source code form remains a valuable trade secret of Garmin and/or its third-party providers. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America or the export control laws of any other applicable country.

**Map Data Information**

Garmin uses a combination of governmental and private data sources. Virtually all data sources contain some inaccurate or incomplete data. In some countries, complete and accurate map information is either not available or is prohibitively expensive.

**Limited Warranty**

This Garmin product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not apply to: (i) cosmetic damage, such as scratches, nicks and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iii) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (iv) damage caused by service performed by anyone who is not an authorized service provider of Garmin; or (v) damage to a product that has been modified or altered without the written permission of Garmin, or (vi) damage to a product that has been connected to power and/or data cables that are not supplied by Garmin. In addition, Garmin reserves the right to refuse warranty claims against products or services that are obtained and/or used in contravention of the laws of any country.

Our navigation products are intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location or topography. Garmin makes no warranty as to the accuracy or completeness of map data.

Repairs have a 90 day warranty. If the unit sent in is still under its original warranty, then the new warranty is 90 days or to the end of the original 1 year warranty, depending upon which is longer. THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL Garmin BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Garmin retains the exclusive right to repair or replace (with a new or newly-overhauled replacement product) the device or software or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local Garmin authorized dealer or call Garmin Product Support for shipping instructions and an RMA tracking number. Securely pack the device and a copy of the original sales receipt, which is required as the proof of purchase for warranty repairs. Write the tracking number clearly on the outside of the package. Send the device, freight charges prepaid, to any Garmin warranty service station.

**Online Auction Purchases**: Products purchased through online auctions are not eligible for rebates or other special offers from Garmin warranty coverage. Online auction confirmations are not accepted for warranty verification. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. Garmin will not replace missing components from any package purchased through an online auction.

**International Purchases**: A separate warranty may be provided by international distributors for devices purchased outside the United States depending on the country. If applicable, this warranty is provided by the local in-country distributor and this distributor provides local service for your device. Distributor warranties are only valid in the area of intended distribution. Devices purchased in the United States or Canada must be returned to the Garmin service center in the United Kingdom, the United States, Canada, or Taiwan for service.

**Australian Purchases**: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits under our Limited Warranty are in addition to other rights and remedies under applicable law in relation to the products. Garmin Australasia, Unit 19, 167 Prospect Highway, Seven Hills, NSW, Australia, 2147, Phone: 1800 822 235





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## Radio Frequency Radiation Exposure

This device is a mobile transmitter and receiver that uses an internal antenna to send and receive low levels of radio frequency (RF) energy for data communications. The device emits RF energy below the published limits when operating in its maximum output power mode and when used with Garmin authorized accessories. To comply with RF exposure compliance requirements, the device should be installed and operated with a minimum of 12 in. (0.3 m) between the device and your body. The device should not be used in other configurations.

This device must not be co-located or operated in conjunction with any other transmitter or antenna.

For actual SAR values, go to www.garmin.com/compliance.


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