

GARMIN[™]

Owner's Manual

nüvi[®] 610/660/670



personal travel assistant

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PREFACE

Thank you for purchasing the Garmin® nüvi®. This manual includes information for nüvi 610, nüvi 660, and nüvi 670 products.

Manual Conventions

When you are instructed to “touch” something, use your finger to touch an item on the screen.

Small arrows (>) appear in the text. They indicate that you should touch a series of items on the nüvi screen. For example, if you see “touch **Where to > Favorites**,” you should touch the **Where to** button, and then touch the **Favorites** button.

Contact Garmin

Contact Garmin if you have any questions while using your nüvi. In the USA contact Garmin Product Support by phone: 913/397.8200 or 800/800.1020, Monday–Friday, 8 AM–5 PM Central Time; or go to www.garmin.com/support, and click **Product Support**.

In Europe, contact Garmin (Europe) Ltd. at +44 (0) 870.8501241 (outside the UK) or 0808 2380000 (UK only).

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myGarmin™

Go to <http://my.garmin.com> to access the latest services for your Garmin products. From the myGarmin Web site, you can do the following:

- Register your Garmin unit.
- Subscribe to online services for safety camera information (see [page 50](#)).
- Unlock optional maps.

Return to myGarmin often for new Garmin product services.

Tips and Shortcuts

- To quickly return to the Menu page, touch and hold **Back**.
- Touch  and  to see more choices. Touch and hold to scroll faster.
- To learn more about the nüvi Bluetooth® technology or Travel Kit features, touch **Help** on the appropriate screen.
- To extend the battery life, close the GPS antenna when you do not need to use the nüvi for navigation. If the antenna is closed, the GPS receiver is off.
- To adjust the audio or the screen brightness, quickly press and release the  **Power** button. You can also touch  on the Menu page.
 - To adjust the volume or brightness, touch  or .
 - To prevent accidental screen taps, touch **Lock**. To unlock, press the  **Power** button.
- To switch the audio output between the nüvi and an FM stereo (where available), quickly press the  **Power** button twice.

GETTING STARTED

What Is in the Box?

- **nüvi unit**
- **Vehicle suction cup mount** to mount the nüvi on your windshield.
- **Carrying case** to protect your nüvi from scratches and accidental screen taps.
- **12-Volt adapter** to get power in your vehicle; or **traffic receiver**.
- **AC charger** (nüvi 660 and nüvi 670) to receive power from a wall outlet.
- **USB cable** to connect the nüvi to your computer.
- **Dashboard disk** to mount the suction cup mount on your dashboard.
- **Yellow sheet** that contains your unit's serial number, registration number for registering on Garmin's Web site, and unlock code for future reference.
- **Quick reference guide** to help you get started.



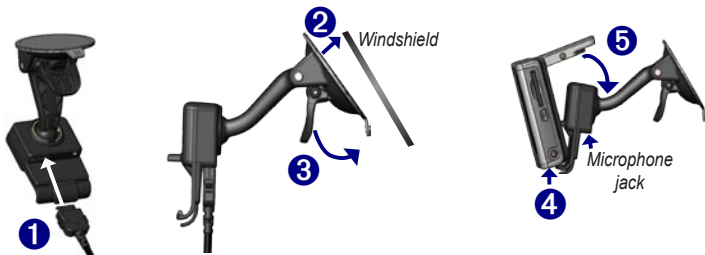
Mounting the nüvi on the Windshield

Check your state and local traffic laws before mounting. Currently, state laws in California and Minnesota prohibit drivers from using suction mounts on their windshields while operating motor vehicles. Other Garmin dashboard or friction mounting options should be used. See the *Important Safety and Product Information* guide for more details.

To mount the nüvi on your dashboard, see [page 57](#).

To mount the nüvi using the suction cup mount:

1. Plug the power cable into the bottom of the mount. Plug the other end into a 12-Volt receptacle in your vehicle.
2. Clean and dry your windshield and the suction cup with a lint-free cloth. Place the suction cup on the windshield.
3. Flip the lever back, toward the windshield.
4. Flip up the GPS antenna. Fit the bottom of your nüvi into the cradle.
5. Tilt the nüvi back until it snaps into place.
6. If you are using a traffic receiver in Europe, secure the traffic antenna and suction cups to the windshield.



To remove your nüvi from the cradle, press the small tab on the bottom of the cradle up, and tilt the nüvi forward.

BASIC OPERATION

Turning the nüvi On or Off

Press and hold the  **Power** button on the top of the nüvi.

Charging the nüvi

To charge the nüvi, use one of the following methods:

- Connect the nüvi to the suction mount and the 12-Volt car adapter.
- Connect the USB cable to the nüvi and your computer.
- Connect the AC adapter to the nüvi and wall outlet (nüvi 660 and nüvi 670).


Acquiring Satellites

Before the nüvi can find your current location and navigate a route, you must do the following:






1. Go outdoors to an open area, away from tall buildings and trees.
2. Flip up the GPS antenna on the back of the nüvi, so that it is parallel to the ground.
3. Turn on the nüvi. Acquiring satellite signals can take a few minutes.



**GPS Antenna Up
(Parallel to the Ground)**

The  bars indicate satellite signal strength. When the bars are green, the nüvi has acquired satellite signals; now you can select a destination and navigate to it. To use the nüvi indoors, close the GPS antenna.

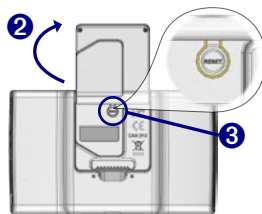
Changing the Volume, Brightness, and Screen Lock

1. Press and quickly release the  **Power** button, or on the Menu page, touch .
2. Touch  or  to adjust the volume and brightness. To prevent accidental screen taps, touch **Lock**. To unlock the screen, press the  **Power** button.

Resetting Your nüvi

If the nüvi screen stops functioning, turn the nüvi off and on again. If this does not help, do the following:

1. Disconnect the nüvi from external power.
2. Flip up the GPS antenna.
3. Press the **Reset** button.
4. Connect the nüvi to a power source. The nüvi should automatically turn back on and operate normally.



Clearing User Information




CAUTION: This procedure deletes all information that you have entered.

1. Hold your finger on the lower-right corner of the nüvi screen while you turn on the nüvi. Keep your finger pressed until the pop-up window appears.
2. Touch **Yes**. All factory settings are restored. Your Favorites and audio bookmarks are also deleted.

Using the Anti-Theft Feature

Garmin Lock™ is an anti-theft feature. You can set a four-digit PIN (personal identification number) and a security location; then every time the nüvi is powered on you must enter the PIN or drive to your security location. Select any location, such as your home or office, for your security location. Write down your PIN, and keep it in a safe place. If you forget your PIN, you can go to your security location to unlock the nüvi.

To help prevent theft of the nüvi, apply the Garmin Lock sticker to the inside of a vehicle window, and do the following:

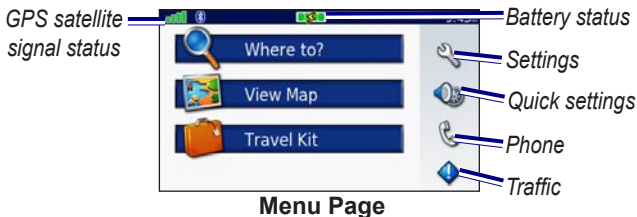
1. Flip up the GPS antenna.
2. On the Menu page, touch  **Settings > System**.
3. Touch the button next to **Garmin Lock**. Touch **OK**.
4. Enter a four-digit PIN. Touch **Yes** to accept the PIN.
5. Touch **OK**. Drive to a security location, and touch **Set**.
6. Each time you turn on the nüvi, enter the four-digit PIN or drive to the security location (with the antenna up).



NOTE: If you forget your PIN and your security location, you must send your nüvi to Garmin to get it unlocked.

MAIN PAGES

Understanding the Menu Page



- **GPS satellite signals**—represents the satellite signals being received by your nÜvi. When you see green bars, you have a strong signal.
- **Battery status**—represents the status of the battery charge. The lightning bolt symbol indicates that the nÜvi is currently charging.
- **Settings**—accesses the nÜvi settings.
- **Quick settings**—accesses the settings for volume, brightness, and screen lock.
- **Phone**—appears when you pair the nÜvi with a phone; accesses phone features.
- **Traffic**—appears when you connect an FM traffic receiver; accesses the traffic incident list.

Understanding the Map Page

From the Menu page, touch  **View Map** to open the Map page. The  vehicle icon shows your current location.



Map Page while Navigating a Route

Understanding the Trip Information Page

The Trip Information page displays your current speed and provides helpful statistics about your trip. To view the Trip Information page, touch **Speed** or **Arrival** on the Map page.



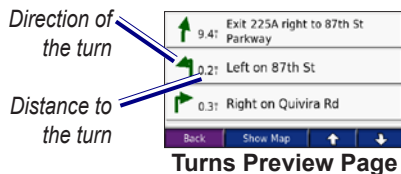
Trip Information Page

Resetting Trip Information

Touch **Reset Trip** to reset the Trip Information page before beginning a trip. If you make frequent stops, leave the nüvi turned on so it can accurately measure elapsed time during the trip. Touch **Reset Max** to reset the Maximum Speed.

Understanding the Turns Preview Page

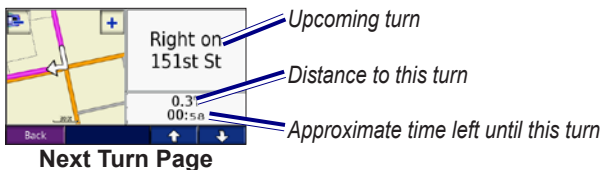
Touch the green text bar on the top of the Map page to open the Turns Preview page. This page displays all turns in the route and the distance between turns. Touch a turn on the list to view the Next Turn page for that turn. Touch **Show Map** to view the entire route on the map.



Understanding the Next Turn Page

The Next Turn page displays the upcoming turn on the map and the distance and time remaining before you reach the turn. To view an upcoming turn on the map, touch **Turn In** on the Map page, or touch any turn from the Current Route page.


Touch **↑** or **↓** to view other turns in the route. When you are finished viewing the Next Turn page, touch **Back**.



 **WHERE TO**


Finding Your Destination

Flip up the antenna on the nüvi to get satellite signals. Then, use the Garmin nüvi to find your destination and navigate to it.



1. On the Menu page, touch  **Where to**.
2. Select a category. (Touch the arrows to see more categories.)
3. Select a destination. (Touch the arrows to see more places.)
4. Touch **Go**.

Following Your Route

Follow the route to your destination using the Map page. As you travel, the nüvi guides you to your destination with voice prompts, arrows on the map, and directions at the top of the Map page. If you depart from the original route, the nüvi recalculates the route and provides new route instructions.

- The vehicle icon  shows your location.
- Your route is marked with a purple line.
- Follow the arrows as you take turns.
- A checkered flag marks your destination.

Finding an Address

1. On the Menu page, touch  **Where to** >  **Address**.
2. Select a country (if necessary), state, and city. If you are not sure of the city, select **Search All**.
3. Type the address number, and touch **Done**.
4. Type the street name until a list of streets appears.
5. Select the street. If more than one matching address is found, select the one that you want.
6. Touch **Go**.





TIP: You can search for a postal code. Enter the postal code instead of the city name. (Not all map data provides postal code searching.)









TIP: Finding an intersection is very similar to finding an address. Touch **Intersection**, and enter the two street names.

Finding a Place Using Coordinates

You can find a place by entering the location coordinates. This can be helpful if you enjoy geocaching.

1. On the Menu page, touch  **Where to** >  **Coordinates**.
2. Enter the coordinates for your destination, and touch **Next**.
3. Touch **Go**.

Finding a Place by Spelling the Name

1. On the Menu page, touch  **Where to** >  **Food, Lodging** >  **Spell Name**.
2. Using the on-screen keyboard, enter letters contained in the name. Touch  to enter numbers. Touch  to delete the last character entered; touch and hold  to delete the entire entry.
3. Touch **Done**.
4. Select the place you want to visit.
5. Touch **Go**.






TIP: In a search results list, if you do not see the place you want to visit, or you want to narrow your search results list, touch **Spell** and enter the name or part of the name.

Finding a Place Using the Map

Touch  **Where to** >  **Browse Map**.


Tips for Browsing the Map

- Touch the map and drag to view different parts of the map.
- Touch  and  to zoom in and out.
- Touch anywhere on the map. An arrow points to the location.
 - Touch **Go** to navigate to the selected location.
 - Touch **Save** to save this location to your  **Favorites**.
 - If the GPS is turned off, touch **Set Loc.** to set the location.

Viewing Places on the Map

1. Touch **Show Map**.
2. Drag the map, and zoom in or out, as necessary. Touch **Back** when you are finished.

Expanding Your Search

1. From the Menu page, touch  **Where to > Near**.
2. Select an option:

Where I Am Now—searches for places near your current location.

A Different City—searches for places near the city you enter.

My Current Route—searches for places along the route you are currently navigating.

My Destination—searches for places near your current route destination.


3. Touch **OK**.



NOTE: Your nüvi automatically searches for places near your current location.


Adding a Stop to Your Route

You can add one stop to your route. The nüvi gives you directions to the stop and then to your final destination.

1. When navigating a route, touch  **Where to** on the Menu page.
2. Search for a location at which you want to stop before your final destination.
3. Touch **Go**.
4. Select whether you want this stop to be the new final destination, or whether you want to insert this stop before your final destination.

Adding a Detour to Your Route

If you want the nüvi to try to calculate a new route to avoid something ahead of you, use the following procedure.

1. On the Map page, select  to return to the Menu page.
2. Touch **Detour**, and the nüvi creates a new route, if possible.

The nüvi attempts to get you back on your original route, as soon as possible. If the route you are currently taking is the only reasonable option, the nüvi might not calculate a detour.

Stopping Your Route


If you want to stop your current route, return to the Menu page and touch **Stop**.

 **FAVORITES**



Understanding Favorites

You can save 500 of your favorite places in  **Favorites**.



Saving Places You Find

1. After you have found a place you want to save, touch **Save**.
2. Touch **OK**. The place is saved in  **Favorites**.


Finding Saved Places


1. On the Menu page, touch  **Where to** >  **Favorites**.
2. Select a place.
3. Touch **Go**.

Saving Your Current Location

1. On the Map page, touch the vehicle icon .
2. Touch **Save**. The place is saved in  **Favorites**.

Setting a Home Location

You can set a home location for the place you return to most often. Your home location is saved in  **Favorites**.

1. On the Menu page, touch  **Where to** > **Go Home**.
2. Select an option.

If you want to change your home location after you have already set it, follow the procedure for “Editing Saved Places” below.



Going Home

After you set your home location, you can route to it at any time.



Touch  **Where to** > **Go Home**.

Editing Saved Places

You can change the name, symbol, or phone number of a saved place.


1. On the Menu page, touch  **Where to** >  **Favorites**.
2. Select the place you want to edit.
3. Touch **Edit**.
4. Touch the appropriate option, and make the changes.

Deleting Saved Places

1. On the Menu page, touch  **Where to** >  **Favorites**.
2. Select the place you want to delete.
3. Touch **Edit** > **Delete** > **Yes**.



 **TRAVEL KIT**


The Travel Kit provides many features that are helpful when you are traveling. Touch **Help** to learn more about the nüvi Travel Kit.

1. On the Menu page, touch  **Travel Kit**.
2. Touch the item you want to open.

To purchase a Travel Kit accessory, go to www.garmin.com/products. You can also contact your Garmin dealer to purchase nüvi accessories.


Listening to MP3 Files

1. On the Menu page, touch  **Travel Kit** >  **MP3 Player** > **Browse**.
2. Select a category.
3. To play the entire category from the beginning of the list, touch **Play All**. To play starting with a specific song, touch the title.
4. Touch **Back** to exit the MP3 page.


Touch  to adjust the volume.

Tap  to go to the beginning of the song; touch and hold to rewind the song.

Tap  to skip to the next song; touch and hold to fast forward the song.

Touch  to pause the song.

Touch  to repeat. Touch  to shuffle.

To switch the audio output between the nüvi and an FM stereo (where available), quickly press the  **Power** button twice.



NOTE: The nüvi plays MP3 files only; it does not support M4A/M4P files.



Listening to Your Playlist

Your nüvi can play a playlist you have created in an audio program.

1. Using your computer and an audio program, create a playlist of MP3 files. Save the playlist as an M3U file.





NOTE: You may need to edit the M3U file with a text editor, such as Notepad, to remove the path (link) to the MP3. The M3U file should only list the MP3 files in your playlist, not their location. Refer to the audio program's Help file for instructions.

2. Transfer the playlist and the MP3 files to the nüvi or SD drive (see [pages 37–40](#)). The M3U file must be in the same file location as the MP3 files.
3. On the nüvi, touch  **Travel Kit** >  **MP3 Player** > **Browse** > **Import Playlist**. All available playlists appear.
4. Touch a playlist to start playing the MP3 files. You cannot change the playlist order from your nüvi.


Playing Audible Books

Purchase full books from Audible.com at <http://garmin.audible.com>.


1. On the Menu page, touch  **Travel Kit** >  **Audible Book Player**.
2. Touch **Browse**.
3. Touch a category, and then touch a book title.

Touch  to adjust the volume.



Tap  to jump back. Tap  to skip ahead. Touch and hold to move more quickly.

Touch  to pause the book.

Touch the book cover art to view book information.

To switch the audio output between the nüvi and an FM stereo (where available), quickly press the  **Power** button twice.

Using Bookmarks


To create a bookmark, touch  and **Bookmark**. To view bookmarks, touch  and then touch a bookmark. Touch **Play** to listen to the book from the bookmark.

Loading Audible Books to Your nüvi

To purchase a book, go to <http://garmin.audible.com>, and create an Audible.com account. After you create an account, download AudibleManager to your personal computer. Then you can purchase a book and download it to your nüvi.

Step 1: Activate Your nüvi with AudibleManager

Before you can listen to a book you have downloaded from Audible.com, you must activate your nüvi. This is a one-time process.


1. Disconnect your nüvi from your computer: double-click the **Unplug or Eject**  icon in your system tray. Select **USB Mass Storage Device**, and click **Stop**. Select the nüvi drives, and click **OK**. Unplug the USB cable from your nüvi.
2. From your computer's desktop, double-click the **AudibleManager** icon to open AudibleManager.
3. In the "Choose your device" window, click the box next to "Garmin - nüvi" to place a check mark in the box. Click **Next**.
4. Enter your Audible user name and password. Click **Next**.
5. Connect your nüvi to your computer using the USB cable. Wait a few moments for AudibleManager to detect your nüvi.
6. Select **Activate my player(s)**, and click **Next**.
7. Please wait while AudibleManager attempts to activate your nüvi. Upon completion, you will receive a message saying the process has been successful. Click **Finish**.



NOTE: If you are unable to connect to the Internet or have any other problems activating your nüvi, refer to the AudibleManager Help file. Select **Help** from the menu, and then click **Help**.

Step 2: Download the book to your computer



Refer to AudibleManager's Help file for detailed instructions about downloading books to your computer and loading them on your nüvi.

1. Connect the nüvi to your computer.
2. From your computer's desktop, double-click the **AudibleManager** icon to open AudibleManager.
3. Click the **Go to My Library Online**  button on the top center of the window. Your Audible.com library opens, displaying the books you have purchased.
4. Click **Get it Now** to download the book to your computer.
5. Select a format, and click **Download**.

Step 3: Transfer the book to your nüvi



Refer to AudibleManager's Help file for detailed instructions about downloading books to your computer and loading them on your nüvi. You must first activate your nüvi before transferring books.

1. Connect the nüvi to your computer.
2. Open **AudibleManager**.
3. Select the Internal Drive or External Drive (SD card) in the lower portion of the window. (Insert an SD card into your nüvi, if loading books onto an SD card.)

4. Select the book title. Click the **Add to Garmin - nüvi**  button in the top left corner.
5. Select how much of the book you want to load. You can load small sections at a time to save memory. Click **OK**. AudibleManager transfers the book to your nüvi.
6. When you are finished, double-click the **Unplug or Eject Hardware** icon . Click **Stop**, and then click **OK**.

Viewing Pictures

You can view pictures that you have stored in your nüvi using the Picture Viewer. See [page 37](#) for more information about loading pictures onto your nüvi.

1. On the Menu page, touch  **Travel Kit** >  **Picture Viewer**.
2. Touch a picture to view a larger image of it.





TIP: Touch **Rotate** to rotate the image 90°.



Viewing a Slide Show

Touch **Slide Show** to start a slide show, which displays each image for a few moments and then displays the next image. You can zoom in or out and pan by dragging the picture with your finger. Touch anywhere on the screen to stop the slide show.

Using the World Clock



1. On the Menu page, touch  **Travel Kit** >  **World Clock**.
2. To change a city listed, touch the city.
3. Select a new time zone (or city). Touch **OK** when done.
4. Touch **World Map** to view a map.
5. Nighttime hours are shown in the shaded area. Touch **World Clock** to view the clocks again, or **Back** to exit.


Converting Currency

1. On the Menu page, touch  **Travel Kit** >  **Currency Converter**.
2. Touch a currency button to change the currency.
3. Select a currency, and touch **OK**.
4. Touch the blank rectangle under the currency rate you want to convert.
5. Enter the number. Touch **Done**.
6. Touch **Clear** to convert a different value.

Updating Conversion Rates

The nüvi allows you to update the currency conversion rates manually so that you are always using the most current rates.

1. On the Menu page, touch  **Travel Kit** >  **Currency Converter**.
2. Touch **Update**.
3. Touch the rate you want to update.



4. Touch  to erase the current rate. Enter a new rate, and touch **Done**.
5. Touch **Save** to finish.

TIP: Touch **Restore** to use the original conversion rate.






TIP: Touch and hold  to erase the entire entry.

Converting Measurements

1. On the Menu page, touch  **Travel Kit** >  **Measurement Converter**.
2. Select a type of measurement, and touch **OK**.
3. Touch a unit of measure that you want to change.
4. Select a unit of measure, and touch **OK**. Repeat, if necessary.
5. Touch the blank rectangle to enter a value.
6. Enter a value, and touch **Done**.
7. Touch **Clear** to enter another measurement.

Using the Calculator

1. On the Menu page, touch  **Travel Kit** >  **Calculator**.
2. Enter the first number of your calculation.
3. Touch an operator (**÷**, **x**, **-**, or **+**).
4. Enter the second number of your calculation.
5. Touch **=**.
6. Touch  to make a new calculation.


USING BLUETOOTH® TECHNOLOGY

If you have a phone with Bluetooth wireless technology, and your phone is supported by the nüvi (see www.garmin.com/bluetooth), you can use your nüvi as a hands-free device. Hands-free phone features on the nüvi are only available if your phone supports that feature using Bluetooth technology (for example, phone book, voice dial, and call waiting). You can speak into the front of the nüvi, and listen to the conversation over the nüvi speaker (or FM stereo, if available). To use this hands-free feature, you must pair (connect) your phone with the nüvi. You can initiate this pairing from the phone settings or from the nüvi settings. Refer to your phone's documentation for more information.

To pair using the phone settings:

1. Access the phone's Settings menu.
2. Access the phone's Bluetooth technology settings. Sometimes these are in a Bluetooth, Connections, or Hands-free menu.
3. Search for devices. The nüvi must be 10 meters or closer and turned on.
4. Select the nüvi from the list of devices.
5. Enter the nüvi PIN (personal identification number), **1234**, into your phone.


To pair using the nüvi settings:

1. Confirm that your phone is supported by the nüvi.
(See www.garmin.com/bluetooth.)
2. On the Menu page, touch  **Settings** > **Bluetooth**.
3. Ensure that the Bluetooth button is set to **Enabled**.

4. Touch **Add** (or **Change**, if you already added).
5. If adding, set your phone to Find Me/Discoverable mode, and touch **OK** on the nüvi. Select your phone on the list. Enter passkey **1234** on your phone, when prompted.



OR

If changing, select your phone and touch **OK**, or touch **Add Device** and **OK**.

6. If the pairing is successful, the  Phone icon appears on the nüvi Menu page.




When you turn on the nüvi, it tries to pair with the last phone with which it paired. After the initial pairing, you can set some phones to automatically attempt pairing with a designated device when the phone is turned on.

To enable or disable the Bluetooth technology:


1. On the Menu page, touch  **Settings** > **Bluetooth**.
2. Set the Bluetooth field to **Enabled** to turn on the Bluetooth technology of your nüvi. The  **Bluetooth** icon appears on the Menu page if the nüvi is enabled.

To disconnect your nüvi from your phone, or to prevent a phone from automatically pairing, touch **Disabled**.




Calling a Number

1. Ensure that your phone is paired with the nüvi.
2. On the Menu page, touch  **Phone** >  **Dial**.
3. Enter the number, and touch **Dial**.
4. To end the call, touch , and then touch **End Call**.

If you are calling a number that requires that you enter information using a keypad during the call (for example, entering a password for your voicemail), do the following:

1. During the call, touch  > **Call Options** > **Touch Tones**.
2. Enter the information. Touch **Back** twice, when finished.
3. To end the call, touch **End Call**.


Calling a Place

1. Ensure that your phone is paired with the nüvi.
2. On the Menu page, touch  **Phone** >  **Food, Lodging**.
3. Search for the place that you want to call.
4. Touch **Dial**.
5. To end the call, touch , and then touch **End Call**.



NOTE: You can also call a place that you find using the **Where to** menu.


Receiving a Call

1. Ensure that your phone is paired with the nüvi.
2. When you receive a call, a message appears on the nüvi. Touch **Answer**.
3. To end the call, touch , and then touch **End Call**.

Using Call Waiting

If you get a call waiting call, the nüvi displays the Incoming Call window. Touch **Answer**. The first call is placed on hold.


To switch between calls:

1. Touch  to open the In Call menu.
2. Touch **Switch To**.
3. Touch **End Call** to hang up; this does not disconnect the call on hold.


Transferring Audio to Your Phone

This feature can be helpful if you are using the hands-free features of the nüvi, and you want to get out of a vehicle without disconnecting your call.

To transfer audio to your phone:

1. During the call, touch  > **Call Options** > **Transfer Audio to Phone**.
2. Continue your call using your mobile phone.

Using the Phone Book

If your phone supports phone book transfer, when your phone pairs with the nüvi, the phone book automatically loads into the nüvi. After pairing, it might take a few minutes for the phone book to be available. You can then place a call using your phone book entries. On the Menu page, touch  **Phone** > **Phone Book**.

Using Call History



Touch **Call History** to access information about the phone numbers that you last dialed, last received calls from, and those calls that you missed.

Calling Home


1. Touch **Call Home** to set up or change your home information, so that you can quickly call home. The first time that you use this function, follow the prompts to enter your home information, and then touch **Save**.
2. If you want to set your phone number, follow the prompts, and then touch **Done**. The nūvi calls your home phone number.

Changing Your Home Phone Number

If you want to change your home phone number after you have previously set it, use the following procedure:

1. On the Menu page, touch  **Where to** >  **Favorites**.
2. Touch **Home**.
3. Touch **Edit**.
4. Touch **Change Phone Number**.

Using Voice Dial

To use the Voice Dial function of the nūvi, your phone must support voice dial and must be set up properly to take voice commands. On the Menu page, touch  **Phone** > **Voice Dial**.

Using Status

To access information about the phone signal, battery status, and carrier name of your phone service, on the Menu page, touch  **Phone** > **Status**.



Using Text Messaging

If your phone supports SMS text messaging using Bluetooth technology, you can send and receive text messages on the nüvi. After pairing, it might take a few minutes for text messages to be available.

Getting a Text Message

When you get a text message, the Incoming Text window opens. Touch **Listen** to play the text message, touch **Review** to open your Inbox, or touch **Ignore** to close the window.




Sending a Text Message

1. On the Menu page, touch  **Phone** >  **Text Message** > **Compose**.
2. Select an option to select the text message recipient.
3. Enter the message, and touch **Done**.




NOTE: Messages sent from your nüvi do not appear in your phone's outbox.


Viewing Your Messages

1. On the Menu page, touch  **Phone** >  **Text Message**.
2. Touch **Inbox**, **Outbox**, or **Drafts**.
3. Touch a message.
4. Select an option:
 - Touch  to listen to the message. (This is available only on the nüvi 660 or nüvi 670 and when a TTS voice is selected).
 - Touch **Forward** to send this message to another recipient, or touch **Reply** to reply to this contact.

Dropping a Connection

1. On the Menu page, touch  **Settings** > **Bluetooth**.
2. Touch **Change**.
3. Touch the device name that you want to drop, and then touch **Drop**.
4. To confirm, touch **Yes**. If you want to use hands-free functions with this dropped phone again, you do not have to pair this phone and the nüvi again.

Removing a Phone from the List

1. On the Menu page, touch  **Settings** > **Bluetooth**.
2. Touch **Change**.
3. Touch the device name that you want to remove, and then touch **Delete**.
4. To confirm, touch **Yes**. If you want to use hands-free functions with this removed phone again, you must pair this phone and the nüvi again.

USING FM TRAFFIC

If you are using a traffic receiver, you can view traffic information on your nüvi. When a traffic message is received, your nüvi displays the incident on the map, and you can change your route to avoid the traffic incident. For traffic data coverage areas, refer to the Garmin Web site at www.garmin.com/traffic.



NOTE: The FM traffic receiver and nüvi must be in data range of an FM station transmitting traffic data to receive traffic information.



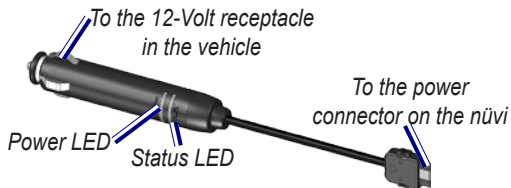
NOTE: Garmin is not responsible for the accuracy of the traffic information. The FM traffic receiver simply receives signals from the traffic service provider and displays that information on your nüvi.



NOTE: You can only access the traffic information if the nüvi is connected to an FM traffic receiver.


LED Blink Codes

The green Power LED lights when connected to external power. The Status LED indicates the status of the traffic receiver.















- ○ ● ● Yellow dot-dash flashes: determining which country you are currently in.
- ● ● ● Yellow solid light: searching for signal.
- ● ● ● Red solid light: momentary sync loss.
- ● ● ● Green solid light: normal traffic data.

Viewing Traffic Incidents




1. On the Menu page, touch  to display a list of traffic incidents.
2. Select an item to view details.
3. Select an option.

Traffic Symbols



North American	Meaning	International
	Road Condition	
	Road Construction	
	Congestion	
	Accident	
	Incident	
	Information	



Severity Color Code

The bars to the left of the traffic symbols indicate the traffic incident's severity:

-  Green = Low severity; traffic is flowing normally.
-  Yellow = Medium severity; traffic is a bit congested.
-  Red = High severity; traffic is heavily congested or stopped.

Avoiding Traffic

The Map page displays  or  in the lower-right corner when there is a traffic incident on your current route or on the road on which you are traveling.

- From the Map page, touch  or .
- Select an item to view details.
- Touch **Avoid**.

Traffic Settings and Subscriptions

See [page 47](#) for information about changing the traffic settings or adding a traffic subscription.

For more information about traffic subscriptions, go to www.garmin.com/fmtraffic.



NOTE: You do not need to activate the subscription included with your FM traffic receiver (if it came with one). The subscription activates automatically after your nüvi acquires satellite signals while receiving traffic signals from the pay service provider.


USING THE FM TRANSMITTER

If an FM transmitter is available on your nüvi, you can listen to your nüvi audio on an FM stereo.



NOTE: When using the FM transmitter function on the nüvi, any phone calls that you place or receive through the nüvi might be overheard by adjacent vehicles through the FM stereo.


Listening to the nüvi on an FM Stereo


1. On the Menu page, touch  > **Audio Output** > **FM Transmitter** > **OK**.
2. If you are using a traffic receiver, touch **Auto Tune**. Then tune your stereo to the selected channel.

OR

Tune your stereo to an FM channel that has a lot of static and has a low FM frequency number. Then select that same channel on the nüvi.

Switching between the nüvi and an FM Stereo

1. On the Menu page, touch  > **Audio Output**.
2. Touch an output mode, and touch **OK**.

To switch the audio output between the nüvi and an FM stereo (where available), quickly press the  **Power** button twice.

FM Transmitter Tips

The FM transmitter is intended to transmit your nüvi's audio to your FM stereo.

Do not adjust your FM settings while you are driving your vehicle.

When searching for an appropriate FM frequency on your FM stereo, look for an unused frequency that has steady, consistent static. If you hear slight noises and sounds in the background of the static, choose a different frequency.

As you travel, you might need to change the frequency for the FM transmitter. A frequency not used by a radio station in your area might be used by a station elsewhere.

As you drive, you may notice changes in the background static even though there is no FM station using that channel. You may notice this as you drive through intersections where certain kinds of traffic lights or other municipal electronic systems are operating. You might also notice this effect when the terrain changes, allowing distant stations to be received by your car stereo that were not received when you made your initial frequency selection. These and other sources of electrical interference may make it necessary to look for another frequency.

The distance between the 12-Volt adapter, the nüvi, and the FM stereo antenna may also affect the noise level. Vehicles with antennas located far away, such as a rear-mounted antenna, may experience more interference from outside noise sources than vehicles with front-mounted antennas.

MANAGING FILES ON YOUR NÜVI

You can store files (such as JPEG images and MP3 music files) in the nüvi's internal memory or on an optional SD card.



NOTE: The nüvi is not compatible with Windows® 95, Windows 98, or Windows Me. This is a common limitation of most USB Mass Storage devices.

Supported File Types

- MP3 music files
- JPG image files
- AA audio book files
- GPI custom POI files from Garmin's POI Loader
- GPX waypoint files from MapSource
- Maps from MapSource

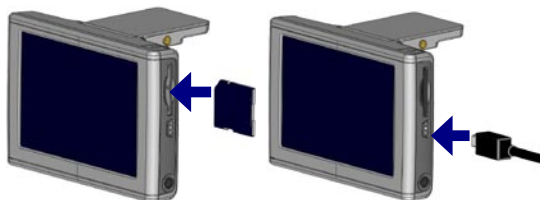


NOTE: The nüvi does not support M4A/M4P files.

Loading Items to Your nüvi

Step 1: Insert an SD Card (Optional)

The SD card slot is located on the side of the nüvi. To insert the card, press it in until it clicks.



Inserting an SD Card Connecting the USB Cable

Step 2: Connect the USB Cable

1. Plug the small end of the USB cable into the connector on the side of the nüvi.
2. Connect the larger end of the USB cable to an available USB port on your computer.


After you connect your nüvi to your computer, one or two additional drives appear in your computer's list of drives: "nüvi" and "nüvi sd." "nüvi" is the available storage in the nüvi's internal memory. "nüvi sd" appears if an SD card is inserted into the nüvi.



NOTE: On some operating systems, the nüvi drives may not be named automatically. See your Help file to learn how to rename the drives.

Step 3: Transfer Files to the nüvi

On a Windows PC:


1. Connect the nüvi to your computer.
2. Double-click the  **My Computer** icon on your computer's desktop.
3. Browse your computer for the file you want to copy.
4. Highlight the file and select **Edit > Copy**.
5. Open the "nüvi" or "nüvi sd" drive.
6. Select **Edit > Paste**. The file then appears in the list of files on the nüvi memory or SD card.

On a Macintosh:



1. Connect the nüvi to your computer as described on the [previous page](#). Your drive should mount onto your Mac Desktop as two mounted volumes (drives); the "nüvi" and "nüvi sd" volumes.
2. To copy files to your nüvi or SD card, drag and drop any file or folder onto the volume icon. Double-click the volume to open it. To help manage the files, add folders (press the **Command + Shift + N** keys).

Step 4: Disconnect

From a Windows PC:

1. When you are finished transferring files, double-click the **Unplug or Eject**  icon in your system tray.
2. Select "USB Mass Storage Device," and click **Stop**.
3. Select the nüvi drives, and click **OK**. You can disconnect your nüvi from your computer now.

From a Macintosh:

1. When you are finished transferring files, drag the volume icon to the **Trash**  (it turns into an Eject  icon) to unmount the device.
2. Disconnect your nüvi from your computer now.

Information about Your nüvi Drives

For files that you manually load onto your nüvi, like your MP3 or JPEG files, you can paste them anywhere in the “nüvi” and “nüvi sd” drives. If another program, such as POI Loader, places a file in a specific folder, keep that file in that specific folder.

Deleting Files from the nüvi

You can delete files from your nüvi just as you would delete files from your computer. Select the file that you want to delete from your nüvi, and press the **Delete** key on your computer’s keyboard.



CAUTION: If you are not sure about a file’s purpose, do **NOT** delete it. Your nüvi memory contains important system files that should **NOT** be deleted. Be especially cautious of files located in folders entitled “Garmin.”

CUSTOMIZING THE NÜVI

Restoring Settings

To restore all settings you have changed, touch  **Settings** > **Restore**.

To restore settings for an individual category, touch **Restore** on that particular page.

Changing the Map Settings


To change the map settings, on the Menu page, touch  **Settings** > **Map**.

Map Detail—adjust the amount of detail shown on the map. Displaying more detail causes the map to redraw more slowly.

Map View—change the perspective of the Map page.

- **Track Up**—display the map in two dimensions (2D) with your direction of travel at the top.
- **North Up**—display the map in 2D with North at the top.
- **3D View**—display the map in three dimensions (3D), Track Up orientation. This is the default map view.

Map outlines—turn on this setting if you load supplemental maps onto your nüvi and you want to see what areas the supplemental maps cover.

Vehicle—provides choices of vehicles for your map. The default is . For more vehicles, go to www.garmin.com/vehicles.

Map Info—view the maps loaded on your nüvi and their versions.

Changing the System Settings

To change the system settings, on the Menu page, touch  **Settings** > **System**.

WAAS/EGNOS—turning on the WAAS/EGNOS setting might improve GPS accuracy, but it consumes more battery power. For information about WAAS/EGNOS, go to www.garmin.com/aboutGPS/waas.html.

Safe Mode—turn on or off the Safe Mode feature. When your vehicle is moving, Safe Mode disables all unit functions that require significant operator attention and could become a distraction while driving.

Garmin Lock—turn on Garmin Lock™ to lock your nüvi. Enter a four-digit PIN and set a security location. Each time you turn on the nüvi, enter the four-digit PIN or drive to the security location.

Touch Tones—disable or enable the tone that sounds each time you touch the screen.

Simulator—turns on or off simulator mode. When simulator mode is **On** you can simulate driving a route.

About—display your nüvi's software version number, unit ID number, and audio version number. You need this information to update the system software or purchase additional map data.

Changing the Locale Settings

To change the locale settings, on the Menu page, touch  **Settings** > **Locale**.

View the location settings, such as language. Touch the setting that you want to change, or touch **Change All** to adjust the settings based on a selected country. On each screen, touch the setting you want, and then touch **OK**.

Text Language—change all on-screen text to the selected language. Changing the Text Language does not change the language of map data, such as street names and places or user-entered data.

Voice Language—change the language for all voice prompts and messages. Your nüvi might contain two different types of voice languages: text-to-speech (nüvi 660 and nüvi 670) and pre-recorded.

Languages noted with a person's name are text-to-speech (TTS) voices: for example, American English-Jill is a text-to-speech voice. The text-to-speech voices “read” and “speak” the same words that are displayed on the nüvi. The voices have an extensive vocabulary, and they pronounce the street names as you approach turns.

The pre-recorded voices have a limited vocabulary and do not speak names of locations or streets.

Time Format—choose a 12-hour, 24-hour, or UTC time format.

Units—Change units of measure to kilometers (**Metric**) or miles (**Statute**).

Changing the Display Settings


To change the display settings, on the Menu page, touch  **Settings** > **Display**.

Color Mode—touch **Daytime** for a light background, **Nighttime** for a black background, or **Auto** to automatically switch between the two.

Backlight Timeout—touch the length of time the backlight stays on after external power is removed. Reducing the time the backlight stays on increases your battery life.

Touch Screen—recalibrates (or realigns) the touch screen to respond properly. Touch **Recalibrate** and then follow the directions.

Splash Screen—select an image to be shown when you turn on the nüvi. You can load JPEG images on your nüvi or SD card using USB Mass Storage Mode.

Screenshot—enables you to take a picture of the screen when you quickly press and release the  **Power** button. The pictures are saved in your “nüvi” drive.



NOTE: When Screenshot is **On**, the Quick Settings screen does not open when you press the  **Power** button.

Changing the Navigation Settings

To change the navigation settings, on the Menu page, touch  **Settings** > **Navigation**.

Route Preference—touch a preference for calculating your route.

Vehicle—touch your vehicle type to optimize routes.

Avoidances—touch **Enabled** to access the road types. Select the road types you want to avoid on your routes. The nüvi uses these road types only if alternative routes take you too far out of your way or if no other roads are available. If you have an FM traffic receiver, you can also avoid traffic incidents.

Attention Tone—turn on or off the attention tone.

Voice Prompts—select when you want the nüvi to announce route navigation and system status.

Changing the Bluetooth Settings

To change the Bluetooth settings, on the Menu page, touch  **Settings** > **Bluetooth**.

Connections—select a device to connect to. Select **Add Device** to search the area for mobile phones with Bluetooth® wireless technology. Set your mobile phone to Find Me, Discoverable, or Visible, and then touch **OK**. The nüvi searches for all Bluetooth wireless devices in the area and lists them. Select your phone, and then touch **OK**. Enter the nüvi's PIN in your phone.



NOTE: The nüvi's PIN code (or passkey) is **1234**.

Drop—disconnect the nüvi from your phone.

Delete—remove a device from the device list. Touch the device, then touch **Remove**.

Bluetooth—enable and disable the Bluetooth component.

Friendly Name—select to enter a friendly name that identifies your nüvi on devices that are Bluetooth enabled. Touch **Done** after you have entered the name.

Restore—restore the original Bluetooth settings. Restoring the Bluetooth settings does not clear the pairing information.

Changing the Traffic Settings



NOTE: You can only access the traffic settings if your nüvi is connected to external power and an FM TMC traffic receiver.

North American Options

The FM traffic services that you have subscriptions to are listed followed by the expiration date of the subscription. Touch **Add** to add a subscription.

Non-North American Options



Auto—select which provider to use. Select **Auto** to use the best provider for the area, or select a specific provider to use always.

Search—search for additional TMC traffic providers. To increase the search time, touch **Yes** to clear provider table.

Subscriptions—view your subscriptions.

Adding a Subscription

You can purchase additional subscriptions or a renewal if your subscription expires; go to Garmin's FM Traffic Web site at www.garmin.com/fmtraffic.


1. From the Menu page, touch  >  **Traffic**.
2. For Non-North American units, touch **Subscriptions** > **Add**. For North American units, touch **Add**.
3. Write down the FM traffic receiver's unit ID. Go to www.garmin.com/fmtraffic to purchase a subscription and get a 25-character code.

4. After you receive the 25-character code, touch **Next** on the nüvi, enter the code, and touch **Done**.

You must obtain a new code each time you renew your service. If you own multiple FM traffic receivers, you must obtain a new subscription code for each receiver.

For more information about using a traffic receiver, go to [page 31](#).

Changing the Proximity Points Settings

To change the proximity points settings, on the Menu page, touch  **Settings** > **Proximity Points**. Only those items that you have loaded onto your nüvi can be changed with these settings.

Alerts—touch **Change** to turn on or off the alerts when you approach custom POIs or safety cameras. Touch **Audio** to set the type of audio notification that you want to hear, and touch **OK**.

TourGuide—set how you want the audio for Garmin TourGuide™ to be activated.

APPENDIX

Updating the nüvi Software



Use WebUpdater to update your nüvi software. Go to www.garmin.com/products/webupdater to download the WebUpdater program.

After downloading WebUpdater to your computer, connect your nüvi to your computer, run WebUpdater, and follow the screen prompts. After confirming that you want to perform an update, WebUpdater automatically downloads the update and installs it on your nüvi.

Register your nüvi to receive notification of software and map updates. To register your nüvi, go to <http://my.garmin.com>.

You can also download software updates from www.garmin.com/products. Click **Software Updates**. Click **Download** next to the unit software. Read and agree to the terms. Click **Download**. Select **Run** (or **Open**). Your software is updated.

Purchasing and Loading Additional Map Data

To find out the version of the maps that are loaded on your nüvi, open the Menu page. Touch  **Settings** >  **Map** > **Map Info**. To unlock additional maps, you need your unit ID and serial number.

Check www.garmin.com/unlock/update.jsp to see if an update for your map software is available.

You can also purchase additional map data from Garmin and load the maps on your nüvi's internal memory or on an optional SD card.

To load maps or waypoints to your nüvi memory or SD card, select the name for your Garmin drive or SD card drive. Refer to the MapSource Help file for more information about using MapSource and loading maps and waypoints on your nüvi.

The waypoints you create in MapSource are displayed in  **Where to >**

 **Favorites.**

Using Safety Cameras

Safety camera information is available in some locations.

(Check <http://my.garmin.com> for availability.) For these locations, the nüvi includes the locations of hundreds of safety cameras. Your nüvi alerts you when you are approaching a safety camera and can warn you if you are driving too fast. The data is updated at least weekly, so you always have access to the most up-to-date information.

To get updated safety camera information:

1. Go to <http://my.garmin.com>.
2. Sign up for a subscription.

You can purchase a new region at any time, and you can extend existing subscriptions at any time. Each region that you purchase has its own expiration date.

Custom POIs (Points of Interest)

Your nüvi accepts custom POI databases, available from various companies on the Internet. Some custom POI databases contain alert information for points such as school zones. Your nüvi can notify you with a proximity alarm when you approach one of these points.

After downloading your POI database, use the Garmin POI Loader to install the POIs into your nüvi. The POI Loader is available at www.garmin.com/poiloader. Select

Updates and Downloads.

Using the POI Loader program, you can store the Custom POIs on your “nüvi” drive or your SD card. You can also customize the proximity alert settings for each POI using the POI Loader. Refer to the POI Loader Help file for more information; press F1 to open the Help file.

To view your Custom POIs, touch  **Where to** >  **Extras** > **Custom POIs**.



CAUTION: Garmin is not responsible for the consequences of using a custom POI database or the accuracy of the safety camera or other custom POI database.

Optional Accessories



For more information about optional accessories, go to the Garmin Web site at www.garmin.com/products. You can also contact your Garmin dealer to purchase accessories. Optional accessories include:

- FM traffic receiver
- External remote antenna
- External microphone
- Travel Kit accessories

About the Garmin Travel Guide™

Much like a paper travel guide, the Garmin Travel Guide provides detailed information about places, such as restaurants and hotels. To purchase the Travel Guide accessory, go to the Garmin Web site at www.garmin.com/extras.

To use the Travel Guide:

1. Insert the SD card into your nüvi.
2. Touch  **Where to** >  **Extras**.
3. Touch the Travel Guide.
4. Touch a category. Touch a sub-category, if necessary.
5. Touch a location in the list.
6. Touch **Go** to go to the location.

Touch **Map** to display this item on a map.

Touch **Save** to save this location in your  Favorites.

Touch **More** to view more information about the location.

About SaversGuide

The SaversGuide® is an optional accessory that is available only in North America. With the SaversGuide preprogrammed SD data card and membership card, your nüvi is a digital coupon book that notifies you of merchants near your current location where you are eligible for a discount, such as restaurants, hotels, movie theaters, and auto repair shops.

About the Garmin Language Guide

The Garmin Language Guide is an optional accessory. The Language Guide puts data from Oxford's multilingual resources and five bilingual dictionaries in the palm of your hand.






NOTE: Only the nüvi 660 and nüvi 670 can verbally translate words and phrases in the Language Guide. The nüvi 610 can only display this information.

Loading the Garmin Language Guide

When you receive the Garmin Language Guide SD card, you must load the data on the nüvi. Follow the directions on the package or in the nüvi Help file.

All dictionary, word, and phrase content is © Oxford University Press. Voice files are © Scansoft.

Translating Words and Phrases




1. On the Menu page, touch  **Travel Kit** >  **Language Guide**.
2. Touch **Words and Phrases** > **Language**.
3. Select the **From** and **To** languages and touch **Back**.
4. Select a category.
5. Search for a phrase, and touch it.
6. Touch  to hear the translation.

Words and Phrases Tips

- Use **Keywords in Phrases** to find all phrases that contain a specific word.
- Touch **Search** to spell the word.
- Touch an underlined word to replace the word.
- Touch **More Variations** to change words in the phrase or to get a different translation.
- If you cannot find what you are looking for in **Words and Phrases**, look in the **Bilingual Dictionaries**.

Using the Bilingual Dictionaries

The Garmin Language Guide provides five bilingual dictionaries. You can easily translate words and hear their pronunciation using the Bilingual Dictionaries.



1. On the Menu page, touch  **Travel Kit** >  **Language Guide**.
2. Touch **Bilingual Dictionaries**.
3. Touch a translation option. If necessary, touch **To English**.
4. Search for the word and touch it.
5. Touch  to hear the word spoken.

Bilingual Tips

- Touch **Search** to spell the word or the beginning of the word.
- Touch **Legend** to view the legend for the selected language. The Legend contains information on abbreviations, labels, and pronunciation symbols used in each dictionary.



About Garmin TourGuide™

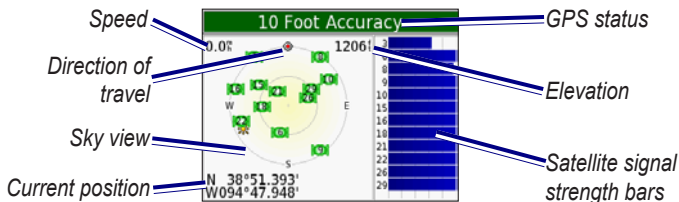
The Garmin TourGuide allows your nüvi to play third-party, GPS-guided audio tours. These audio tours, for example, can take you on a route while playing interesting facts about historical sites along the way. As you travel, the audio information is triggered by GPS signals.

If you have loaded TourGuide files on your nüvi, go to the Menu page and then touch  **Where to** >  **Extras** > **Custom POIs**.

About GPS Satellite Signals

Your nüvi must acquire GPS (Global Positioning System) satellite signals to operate. If you are indoors, near tall buildings or trees, or in a parking garage, the nüvi might not acquire satellites. Go outside to an area free from tall obstructions to use your nüvi, or close the antenna to turn off the GPS and use it indoors.

When the nüvi acquires satellite signals, the signal strength bars on the Menu page are green . When it loses satellite signals, the bars turn red or disappear . Touch the signals strength bars in the upper-left corner of the Menu page to view GPS information. Touch any where on the screen to return to the Menu page.



The sky view shows the satellites from which you are receiving. The satellite signal strength bars indicate the strength of each satellite you are receiving.

For more information about GPS, visit the Garmin Web site at www.garmin.com/aboutGPS.

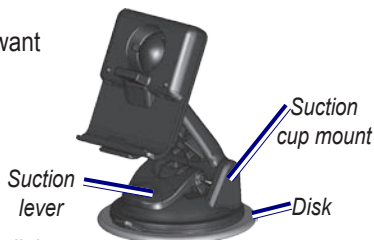
Mounting the nüvi on Your Dashboard

Use the enclosed mounting disk to mount your nüvi to the dashboard.

Important: The **permanent** mounting adhesive is extremely difficult to remove after it is installed.

To install the mounting disk:

1. Clean and dry the dashboard where you want to place the disk.
2. Remove the backing from the permanent mounting adhesive on the bottom of the disk, and place the disk on the dashboard.
3. Place the suction cup mount on top of the disk.
4. Flip the suction lever down to secure the suction cup mount to the disk.



Removing the nüvi and the Mount

1. To remove the nüvi, press up on the tab on the bottom of the cradle.
2. Lift the nüvi off of the mount.
3. To remove the suction cup from the windshield, flip the lever toward you.
4. Pull the tab on the suction cup toward you.

Removing the Cradle from the Mount

To remove the cradle from the mount arm, turn the cradle to one side. The cradle snaps off of the ball socket. To replace the cradle, snap the cradle on the ball socket.

Caring for Your nüvi

Your nüvi contains sensitive electronic components that can be permanently damaged if exposed to excessive shock or vibration. To minimize the risk of damage to your nüvi, avoid dropping your nüvi and operating it in high shock/vibration environments.

Cleaning the nüvi

The nüvi is constructed of high-quality materials and does not require user maintenance other than cleaning. Clean the nüvi's outer casing (not the touch screen) using a cloth dampened with a mild detergent solution and then wipe dry. Avoid chemical cleaners and solvents that can damage plastic components.

Cleaning the Touch Screen

Clean the touch screen with a soft, clean, lint-free cloth. Use water, isopropyl alcohol, or eyeglass cleaner, if needed. Apply the liquid to the cloth and then gently wipe the touch screen.

Protecting Your nüvi

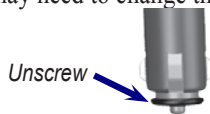
- Do not store the nüvi where prolonged exposure to extreme temperatures can occur (such as in the windshield), as permanent damage may result.
- Do not expose the nüvi to water. Contact with water can cause the nüvi to malfunction.
- Though a PDA stylus can also be used to operate the touch screen, never attempt this while operating a vehicle. Never use a hard or sharp object to operate the touch screen, because it can damage the screen.
- Keep the nüvi in the leather carrying case when not in use.

Avoiding Theft

- To avoid theft, remove the nüvi and mount from sight when not in use. Remove the mark on the windshield left by the suction cup.
- Use the Garmin Lock™ feature.

Changing the Fuse


An AGC/3AG 2 Amp, high-breaking capacity, 1500 mA-rated fuse is located at the tip of the vehicle adapter. Periodically, you may need to change the fuse. Unscrew the black, round end piece and replace the fuse.



Battery Information

Your nüvi contains an internal (non-removable) lithium-ion battery. Contact your local waste disposal department for information on properly disposing of the nüvi.

Battery Tips

- Your nüvi's battery should last 3 to 7 hours, depending on usage.
- To extend the battery life, reduce the time the backlight stays on. On the Menu page, select  **Settings** > **Display** > **Backlight Timeout** to change the setting.
- Close the antenna when you do not need to receive GPS signals.
- Do not leave your nüvi in direct sunlight, and avoid prolonged exposure to excessive heat.

Battery Gauge

The battery icon in the upper-right corner of the Menu page indicates the status of the internal battery. Periodically, you might notice that the battery gauge is not completely accurate. To increase the accuracy of the battery gauge, fully discharge the battery and then fully charge it without interrupting the charging. For best results, do not unplug the nüvi until it is totally charged.





Battery charging or connected to external power



Full battery

Troubleshooting

Problem/Question	Solution/Answer
My nüvi never gets satellite signals.	Take your nüvi outside, away from tall buildings and trees.
My battery gauge does not seem accurate.	Allow the nüvi to fully discharge and then fully charge it (without interrupting the charge cycle).
The touch screen is not responding to my taps properly.	Calibrate the screen. On the Menu page, touch  Settings > Display . Touch the Recalibrate button and follow the on-screen instructions.
My phone will not connect to the nüvi.	Verify that the Bluetooth field is set to Enabled . Make sure your phone is turned on and is less than 10 meters (about 33 feet) away from your nüvi. See www.garmin.com/bluetooth for more help.

Problem/Question	Solution/Answer
How do I know my nüvi is in USB Mass Storage Mode?	When your nüvi is in USB Mass Storage Mode, a picture of a nüvi connected to a computer is shown on the nüvi. Also, you should see a new removable disk drive listed in My Computer.
My computer never senses that the nüvi is connected.	<ol style="list-style-type: none"> 1. Unplug the USB cable from your computer. 2. Turn the nüvi off and then back on again. 3. Plug the USB cable into your computer. The nüvi automatically goes into USB Mass Storage Mode. <p>The nüvi cannot communicate with Windows® 95, Windows 98, or Windows Me.</p>
I cannot find any drives named “nüvi” in my list of drives.	Try the solution listed above.
	If you have several network drives mapped on your computer, Windows may have trouble assigning drive letters to your nüvi drives. Follow the steps on the following page to assign your drive letters.
I keep getting a message saying “Unsafe Removal of Device” when I unplug the USB cable.	To disconnect your nüvi from your computer, double-click the Unplug or Eject  icon in your system tray. Select “USB Mass Storage Device,” and click Stop . Select the nüvi drives, and click OK . Disconnect your nüvi from your computer.

Problem/Question	Solution/Answer
How can I rename my nüvi drives?	<ol style="list-style-type: none">1. Open My Computer.2. Select the drive you want to rename.3. Right-click your mouse and select Rename.4. Type the new name. Press the Return key.
How do I map my nüvi drives in Windows?	<ol style="list-style-type: none">1. Turn off your nüvi.2. Plug the USB cable into the nüvi and your computer. Your nüvi automatically turns on.3. On your computer, click Start > Settings > Control Panel > Administrative Tools > Computer Management > Storage > Disk Management.4. Click a nüvi removable disk drive (either the internal memory or your SD Card drive). Right-click your mouse and select Change Drive Letter and Path.5. Select Change, select a drive letter from the drop-down list, and click OK.

Declaration of Conformity

Hereby, Garmin declares that this nüvi product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. To view the full Declaration of Conformity, see the Garmin Web site for your Garmin product. Click **Manuals**, and then select the **Declaration of Conformity**.

Software License Agreement

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

Garmin grants 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.

You acknowledge that the Software is the property of Garmin 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 are valuable trade secrets of Garmin and that the Software in source code form remains a valuable trade secret of Garmin. 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.

Important Legal Notice Regarding Your FM Transmitter

If your nüvi product contains an FM transmitter, please read the following notice. See your product package or www.garmin.com to determine if your specific nüvi model contains an FM transmitter.

Using Your nüvi FM Transmitter in Europe

Use of FM transmitters is currently illegal in certain European countries due to specific radio frequency restrictions. You must check the local regulations in all European countries in which you intend to use the FM transmitter to ensure its legality. You accept full responsibility for complying with all such laws and regulations applicable in your particular country of operation. Garmin disclaims all responsibility for your failure to follow local laws and regulations. Please see www.garmin.com/fm-notice for more information.

Using Your nüvi FM Transmitter in the United States

While use of FM transmitters is legal in the United States, the allowable output power for FM transmitters is lower in the United States than it is in those European countries that allow FM transmitters. The nüvi models sold in Europe contain the higher powered European FM transmitter and cannot be legally used in the United States. You accept full responsibility for complying with all such laws and regulations applicable in your particular country of operation. You must disable the FM transmitter before using your European model nüvi in the United States.

Specifications

Size: 4.9" W x 2.9" H x 0.9" D (12.4 x 7.4 x 2.3 cm)

Weight: 6.7 oz (190 g)

Display: 4.3" diagonal, 480 x 272 pixels; WQVGA TFT landscape display with white backlight and touch screen

Case: Not waterproof or IPXO

Temperature range: 32°F to 140°F (0°C to 60°C)

Data storage: Internal memory and optional removable SD card. Data stored indefinitely.

PC interface: USB mass storage, plug-and-play

Power input: 12 VDC

Usage: 10 W max.

Battery life: 3 to 7 hours depending on usage

Battery type: nonreplaceable lithium-ion

Headphone jack: Standard 3.5 mm

For a complete list of specifications, visit the Garmin Web site at www.garmin.com/products.

GPS Performance

Receiver: SiRF Star III high-sensitivity GPS receiver

Acquisition times*:

Warm: < 1 sec

Cold: < 38 sec

Factory Reset: < 45 sec

*On average for a stationary receiver with a clear view of the sky

Update rate: 1/sec, continuous

GPS accuracy:

Position: < 10 meters, typical

Velocity: 0.05 meter/sec RMS

GPS (WAAS) accuracy:

Position: < 5 meters, typical

Velocity: 0.05 meter/sec RMS

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For the latest free software updates (excluding map data) throughout the life of your Garmin products, visit the Garmin Web site at www.garmin.com.



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