# KENWOOD

# CONNECTED NAVIGATION SYSTEM DNN990HD DNN770HD GPS NAVIGATION INSTRUCTION MANUAL

JVCKENWOOD Corporation

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# Contents

End-User License Agreements	4
Getting Started	10
Using the Navigation System	10
Help When You Need It	10
Searching Help Topics	10
Status Bar Icons	10
Satellite Signals	11
Viewing GPS Satellite Signals	11
Using the On-Screen Buttons	11
Using the On-Screen Keyboard	11
Adding a Shortcut	11
Removing a Shortcut	11

NAMES OF TAXABLE PARTY.

12

12

12

12

12

15

15

15

15 16

16

16

Finding Locations
Finding a Location by Category
Searching Within a Category
Finding a Location Using the Search Bar
Changing the Search Area
Finding Fuel Stations and Prices
Finding an Address
Finding a City
Finding an Intersection
Finding a Location Using Coordinates
Finding a Location by Browsing the Map
Finding a Location Using Quick Search
Saving a Home Location
Going Home
Editing Your Home Location Information
Finding Recently Found Places

Clearing the List of Recently Found Places 15

Assigning Categories to a Saved Location 16

Finding Parking

Saving a Location

Setting a Simulated Location

Deleting a Saved Location

Saving Your Current Location

Starting a Route to a Saved Location Editing a Saved Location

Voice Command	17
Voice Command Tips	17
Starting a Route Using Voice Command	17
Finding an Address	17

#### Navigation 18 18 Starting a Route Previewing Multiple Routes 18 Following a Route 18 Using the Navigation Map 18 Using Multi-touch Controls 18 Adding a Point to a Route 19 Taking a Detour 19 Stopping the Route 19 Updating Speed Limits 19 Using Suggested Routes 19 Using Exit Services 19 Finding Exit Services 20 Navigating to an Exit 20 Using Find Ahead 20 Avoiding Road Features 20 Adding a Custom Avoidance Area 20 Avoiding a Road 20 Disabling a Custom Avoidance 20 Deleting Custom Avoidances 21 Enabling Advanced Detours 21 Taking a Detour Around Specified Areas 21 Navigating Off Road 21

The Map Pages	22
Customizing the Map Layers	22
Viewing the Trip Log	22
Changing the Map Data Field	22
Changing the Map Perspective	22
Customizing Map Buttons	22
Removing Buttons from the Map	22
Viewing a List of Turns	23
Viewing the Entire Route on the Map	23
Viewing the Next Turn	23
Viewing Junctions	23
Viewing Traffic Alerts	23
Viewing Trip Information	23
Resetting Trip Information	24
Viewing Current Location Information	24
Finding Nearby Services	24
Directions to Your Current Location	24

Using	the	Ap	ps

About the Apps	25
About ecoRoute	25
Creating a Vehicle Profile	25
Resetting Your Vehicle Profile	25
Calibrating Fuel Economy	25
Taking the ecoChallenge	25
About ecoChallenge Scores	26
Hiding Your ecoChallenge Score	26
Resetting Your Score	26
Viewing Your Fuel Economy	26
About the Mileage Report	26
Viewing a Mileage Report	26
Exporting a Mileage Report	27
Setting Routes that Use Less Fuel	27
Planning a Trip	27
Editing a Trip Itinerary	27
Navigating to a Saved Trip	27
Editing a Saved Trip	27
Importing Routes	28
Viewing Previous Routes & Destinations	28
Using the World Clock	28
Viewing the World Map	28
Using Dynamic Parking	28
About Real-Time Traffic Camera	28
Using Movie Time	28

25

Traffic Information	29
Traffic Subscription Activation	29
Understanding Traffic	29
Traffic Data Using INRIX Traffic Service	29
About the Traffic Icon	29
Traffic on Your Route	30
Viewing Traffic on Your Route	30
Manually Avoiding Traffic on Your Route	30
Taking an Alternate Route	30
Viewing Traffic on the Map	30
Searching for Traffic Delays	30
Viewing a Traffic Incident on the Map	30
Understanding Traffic Data	30

#### Icons Used in This Manual



Important precautions are described to prevent injuries and potentially dangerous situations.

Expecial instructions, supplementary explanations, limitations, and reference pages are described.

Customizing the Settings Customizing the Navigation System Changing the Map Settings Enabling Maps Changing the Navigation Settings Adjusting the Display Settings Route Preferences Updating the Time Settings Setting the Languages Adding Security	<b>31</b> 31 31 31 31 31 31 31 32 32 32
Adding Security Device and Privacy Settings Restoring Settings	32 32 32
Nestoning settings	52

Appendix	33
Updating the Software	33
Updating the Map Data	33
Safety Cameras	33
Custom POIs (Points of Interest)	34
Finding Custom POIs	34

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# **Getting Started**

The first time you use your Kenwood Navigation System, you need to set up your system. The Help menu provides additional information.

#### \land WARNING

See "Safety Precautions and Important Information" in the *Quick Start Guide* for product warnings and other important information.



 The screenshots shown in this manual may not exactly match the screens on your navigation system. The images used in this manual are intended for reference only.

#### **Using the Navigation System**

For complete audio system information, see the other Kenwood system manuals.



- Select 1 to access the navigation system.
- When navigating, ② displays Kenwood audio. When using audio, this displays navigation information.

#### Help When You Need It

Select Apps > Help to view information about using the device.

#### **Searching Help Topics**

Select Apps > Help > Q.

#### **Status Bar Icons**

The status bar is located at the top of the main menu. The status bar icons display information about features on the device. You can select some icons to change settings or view additional information.

att	GPS signal status.
<b>11:20</b> Å	Current time.

#### Satellite Signals

After your vehicle is turned on, the navigation system begins acquiring satellite signals. The system may need a clear view of the sky to acquire satellite signals. When at least one of the **mill** bars is green, your system has acquired satellite signals.

#### **Viewing GPS Satellite Signals**

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

Select all.

#### **Using the On-Screen Buttons**

- Select Ď to return to the main menu.
- Hold Ď to quickly return to the main menu.
- Select ↑ or ↓ to see more choices.
- Hold ↑ or ↓ to scroll faster.
- Select to see a menu of options for the current screen.

#### Using the On-Screen Keyboard

See Language Settings to change the keyboard layout (page 32).

When an on-screen keyboard appears, select a letter or a number to enter it.



- Select \_\_\_\_\_ to add a space.
- Select so delete a character.
- Select 🛛 to erase the entire entry.
- Select to select the keyboard language mode.
- Select to enter special characters, such as punctuation marks.
- Select 
   to change character capitalization.

#### **Adding a Shortcut**

You can add shortcuts to the Where To? menu. A shortcut can point to a location, a category, or a search tool. The Where To? menu can contain up to 36 shortcut icons.

#### 1 Select Where To? > Add Shortcut.

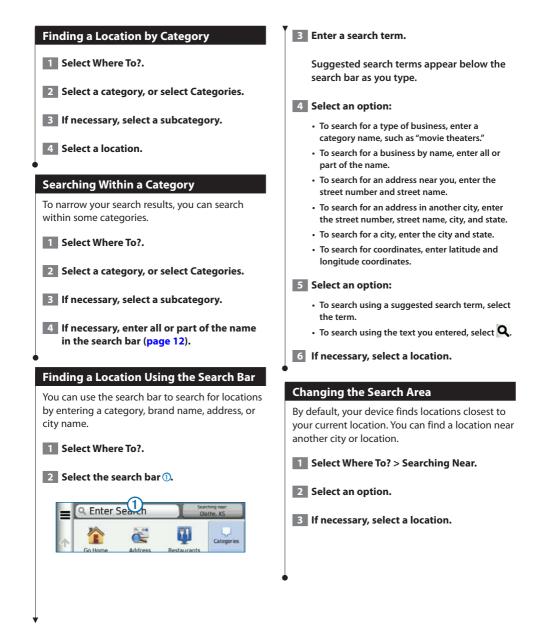
#### 2 Select an item.

#### **Removing a Shortcut**

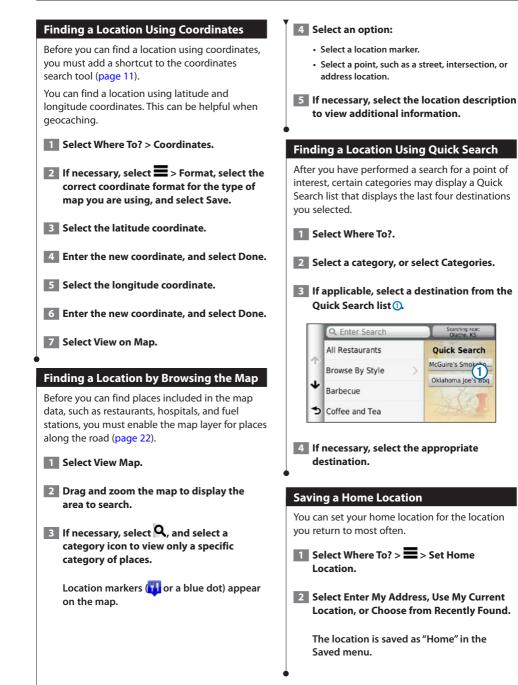
- Select Where To > Select Where To >
- **2** Select the shortcut to remove.
- **3** Select the shortcut again to confirm.

# **Finding Locations**

The navigation system offers many methods for finding locations. The detailed maps loaded in your navigation system contain locations, such as restaurants, hotels, and auto services. You can use categories to browse for nearby businesses and attractions.



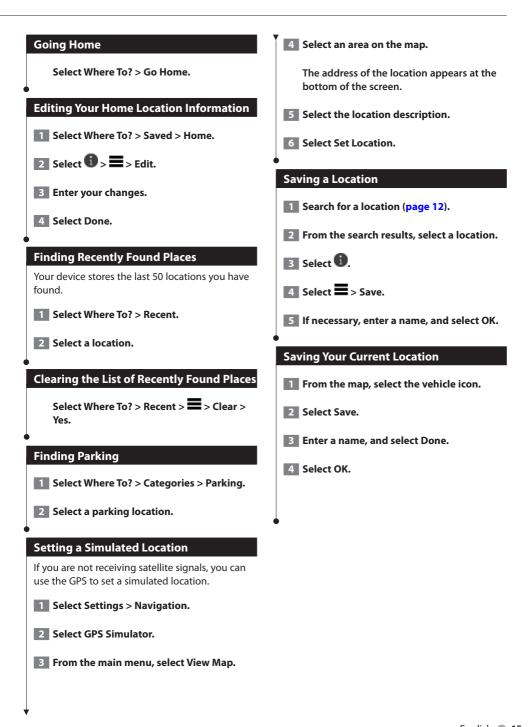
Finding Fuel Stations and Prices	Finding a City
Before you can use this feature, you must subscribe to the Fuel Price service, and your	Before you can find a city, you must add a shortcut to the cities search tool (page 11).
levice must be connected via Wi-Fi to access connected services. This feature is not available n all areas.	1 Select Where To? > Cities.
ou can find nearby fuel stations and compare uel prices.	2 Select Enter Search.
Select Where To? > Categories > Fuel Prices.	<ul> <li>3 Enter a city name, and select</li> <li>4 Select a city.</li> </ul>
2 If necessary, select  > Fuel Type, select a fuel type, and select Save.	• Finding an Intersection
3 Select a fuel station.	Before you can find an intersection, you must add a shortcut to the intersection search tool (page 11).
inding an Address	1 Select Where To? > Intersections.
The order of the steps may change depending on the map data loaded on your device.	2 Select a state or province.
Select Where To? > Address.	If necessary, select <b>State or Country</b> to change the country, state, or province.
2 Enter the address number, and select Done.	3 Enter the first street name, and select Next.
3 Enter the street name, and select Next.	4 If necessary, select the street.
4 If necessary, select Searching In to change the city, state, or province.	5 Enter the second street name, and sele Next.
	6 If necessary, select the street.
5 If necessary, select the city, the state, or the province.	



earching nea

**Quick Search** McGuire's Smoke

Oklahoma Joe's bbq



Starting a Route to a Saved Location	Assigning Categories to a Saved Location
1 Select Where To? > Saved.	You can add custom categories to organize your saved locations.
2 If necessary, select a category, or select All Saved Places.	• Categories appear in the saved locations menu after you have saved more than 12 locations.
3 Select a location.	1 Select Where To? > Saved.
4 Select Go!.	2 Select a location.
Editing a Saved Location	3 Select 1.
1 Select Where To? > Saved.	4 Select => Edit > Categories.
2 If necessary, select a category.	5 Enter one or more category names, separated by commas.
3 Select a location.	6 If necessary, select a suggested category.
4 Select 1.	7 Select Done.
5 Select => Edit.	•
6 Select an option:	Deleting a Saved Location
• Select Name.	<ul> <li>Deleted locations cannot be recovered.</li> </ul>
Select Phone Number.	
<ul> <li>To assign categories to the Favorite, select Categories.</li> </ul>	Select Where To? > Saved.
<ul> <li>To change the symbol used to mark the Favorite on a map, select Change Map Symbol.</li> </ul>	2 Select => Delete Saved Places.
7 Edit the information.	3 Select the box next to the saved locations to delete, and select Delete.
8 Select Done.	
	•

# Voice Command

Voice Command allows you to use your device by saying words and commands. The Voice Command menu provides voice prompts and a list of available commands (DNN990HD).

### 

• Voice Command is not available for all languages and regions, and is only available on the DNN990HD.

#### **Voice Command Tips**

- · Speak in a normal voice directed at the device.
- Reduce background noise, such as voices or the radio, to increase the accuracy of the voice recognition.
- · Speak commands as they appear on the screen.
- · Respond to voice prompts from the device as needed.
- Increase the length of your wakeup phrase to reduce the chance of accidental Voice Command activation.
- Listen for two tones to confirm when the device enters and exits Voice Command mode.

#### **Starting a Route Using Voice Command**

You can say the names of popular, well-known locations.

**1** Press the Voice Command button.

#### 2 Say Find Place.



#### 3 Listen for the voice prompt, and speak the name of the location. A list of locations appears.

# Voice Command 1. Starbucks 1.6T SE 1.5970 S Mur-Len Rd 2.0T E 2. Starbucks 2.0T E 3. Starbucks 2.7T NE 15225 W 135th St 2.7T NE 4. Starbucks 4.1T N Back Up Down

#### 4 Say the line number.



5 Say Navigate.

#### **Finding an Address**

- **1** Press Voice Command button.
- 2 Say Find Address.
- **3** Speak the entire address.

You can create, customize, and edit your routes.

#### **Starting a Route**

**Navigation** 

- **1** Search for a location (page 12).
- 2 Select a location.
- 3 Select Go!.
- 4 If necessary, select a route.

#### **Previewing Multiple Routes**

- **1** Search for a location (page 12).
- **2** From the search results, select a location.
- 3 Select Routes.
- 4 Use the on-screen buttons to select a route.
- 5 Select Go!.

#### **Following a Route**

The route is marked with a magenta line. A checkered flag marks your destination.

As you travel, the device guides you to the destination with voice prompts, arrows on the map, and directions at the top of the map. If you depart from the original route, the device recalculates the route and provides new directions.



#### Using the Navigation Map

**1** From the main menu, select View Map. 2 If the zoom controls are hidden, select the map to display the zoom controls. **3** Select the map to switch to browsing mode. Map buttons appear. 4 Select an option: • To zoom in or out, select 💼 or 🚍 • To rotate the map view, select 🚱. · To switch between North Up and 3-D views, select (A). To add or remove map layers, select ( To view specific location categories, select Q and select a category icon. · To center the map on your current location, select 🔊 · To view shortcuts for map and navigation features, select 🔳. Using Multi-touch Controls You can use multi-touch controls to change the map view while using the navigation map. · Pinch two fingers together on the screen to zoom out. Spread two fingers on the screen to zoom in.

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#### Adding a Point to a Route

- 1 While navigating a route, select 🗅 to return to the main menu.
- 2 Select Where To?.
- 3 Search for the location (page 12)
- 4 Select Go!.
- 5 Select Add to Active Route.

#### **Taking a Detour**

While navigating a route, you can use detours to avoid obstacles ahead of you, such as construction zones.



 If the route you are currently navigating is the only reasonable option, your device might not calculate a detour.

From the map, select **=** > Detour.

#### **Stopping the Route**

From the map, select 😕.

#### **Updating Speed Limits**

#### NOTICE

The speed limit icon feature is for information only and does not replace the driver's responsibility to abide by all posted speed limit signs and to use safe driving judgment at all times. Garmin and JVC KENWOOD will not be responsible for any traffic fines or citations that you may receive for failing to follow all applicable traffic laws and signs

An icon displaying the current speed limit may appear as you travel on major roadways.

- 1 From the map, select 45 > Set Speed Limit.
- 2 Select and to set the speed limit.

#### **Using Suggested Routes**

Before you can use this feature, you must save at least one location and enable the travel history feature (page 15).

Using the myTrends" feature, your device predicts your destination based on your travel history, the day of the week, and the time of day. After you have driven to a saved location several times, the location may appear in the navigation bar on the map, along with the estimated time of travel, and traffic information.

Select the navigation bar to view a suggested route to the location.

#### **Using Exit Services**



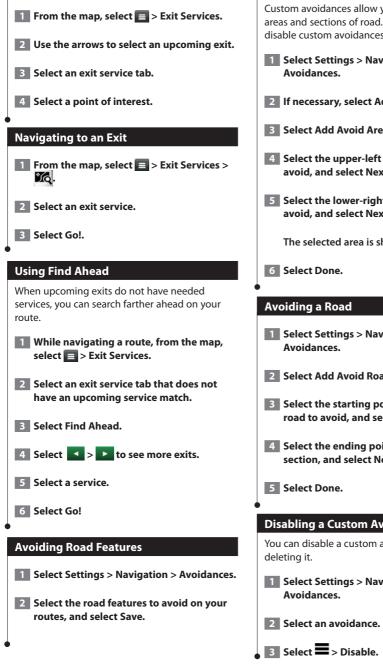
• You must be on a major highway or road to use Exit Services.

While navigating a route, you can find gas, food, lodging, and restrooms near upcoming exits.

Services are listed under tabs by category.

	Gas
Ψ1	Food
T	Lodging
ŧŧ.	Restrooms

#### **Finding Exit Services**



#### Adding a Custom Avoidance Area

Custom avoidances allow you to avoid specific areas and sections of road. You can enable and disable custom avoidances as needed.

- 1 Select Settings > Navigation > Custom
- 2 If necessary, select Add Avoidance.
- 3 Select Add Avoid Area.
- 4 Select the upper-left corner of the area to avoid, and select Next.
- 5 Select the lower-right corner of the area to avoid, and select Next.

The selected area is shaded on the map.

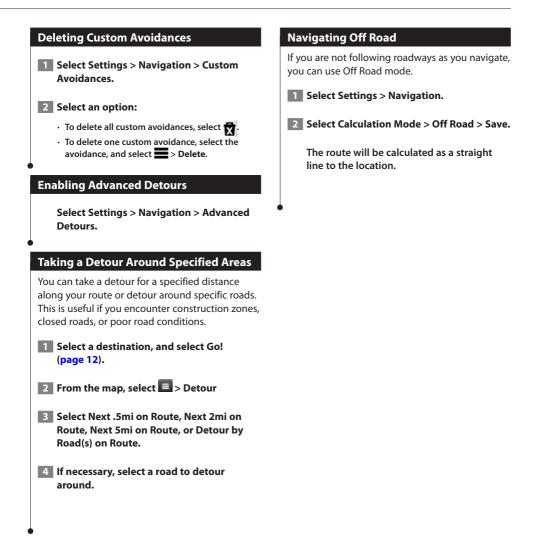
- Select Settings > Navigation > Custom
- 2 Select Add Avoid Road.
- **3** Select the starting point of the section of road to avoid, and select Next.
- 4 Select the ending point of the road section, and select Next.

#### **Disabling a Custom Avoidance**

You can disable a custom avoidance without

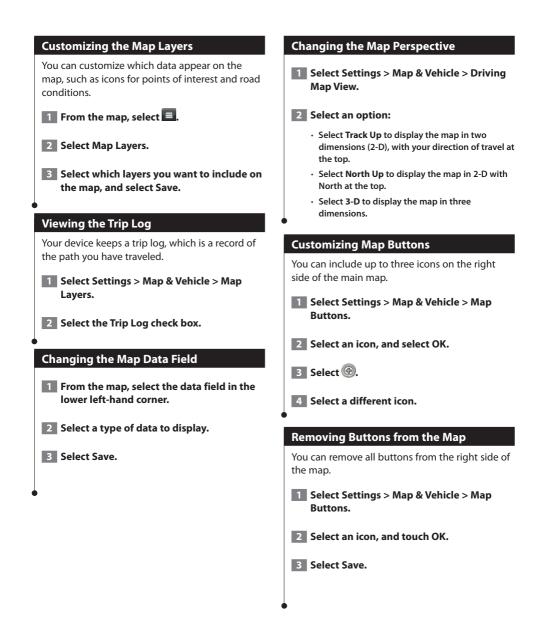
1 Select Settings > Navigation > Custom





# The Map Pages

You can customize which data appear on the map and view upcoming turns and current location information.



#### **Viewing a List of Turns**

When you are navigating a route, you can view all of the turns and maneuvers for your entire route and the distance between turns.





The details for the turn appear. If available, an image of the junction appears for junction on major roadways.

#### Viewing the Entire Route on the Map

While navigating a route, select the navigation bar at the top of the map.



#### **Viewing the Next Turn**

While navigating a route, a preview of the next turn, lane change, or other maneuver appears in the upper-left corner of the map.

The preview includes the distance to the turn or maneuver and the lane in which you should be traveling, if available.

# From the map, select to view the next turn on the map.



#### **Viewing Junctions**

While navigating a route, you can view the junctions on major roadways. When you approach a junction in a route, the image of that junction appears briefly, if available.

# From the map, select by to view the junction, if available.



#### **Viewing Traffic Alerts**

While you navigate a route, a traffic alert may appear.

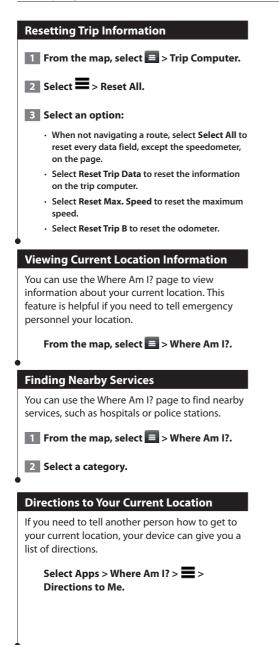
#### Select the alert to view more information.

#### **Viewing Trip Information**

The trip information page displays your present speed and provides statistics about your trip.

#### From the map, select 🔲 > Trip Computer.





# Using the Apps

 $^{\circ}$  The Apps on your navigation system provide access to trip planning, fuel reports, and connected services.

#### About the Apps

The Apps on your navigation system provide access to premium connectivity like Real-time Traffic, Fuel Prices, Dynamic Parking, Real-Time Traffic Camera, Movie Times and more. The coverage of these services depends on availability in your region. For details, see other Kenwood system manuals.

#### About ecoRoute

The ecoRoute feature calculates your vehicle fuel economy, carbon footprint, and the fuel price of navigating to a destination, and offers tools for improving fuel efficiency.

The data provided by the ecoRoute feature is only an estimate. The data is not actually read from your vehicle. To receive more-accurate fuel reports for your specific vehicle and driving habits, calibrate the fuel economy.

#### **Creating a Vehicle Profile**

The vehicle profile provides a basis for ecoRoute to calculate your vehicle fuel economy.

1 Select Apps > ecoRoute<sup>™</sup>.

- 2 Enter the required information, and select Next.
- **3** Select Done.

#### **Resetting Your Vehicle Profile**

**1** Select Apps > ecoRoute<sup>™</sup> > Vehicle Profile.

2 Select Reset.

#### **Calibrating Fuel Economy**

Use this feature when you refuel to maintain an accurate fuel economy.

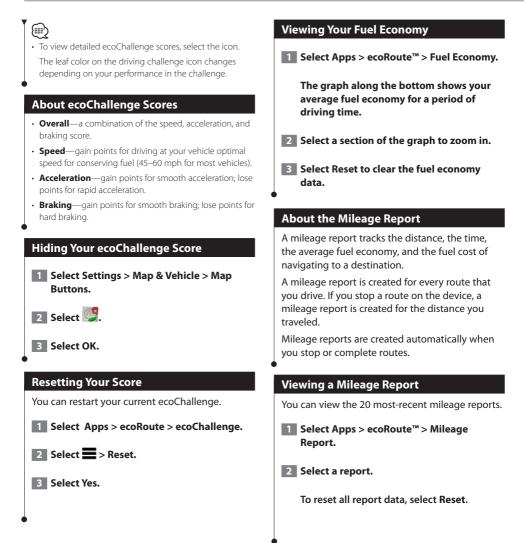
- **1** Select Apps > ecoRoute<sup>™</sup> > At the Pump.
- 2 Enter the current fuel price.
- 3 Enter how much fuel your vehicle has used since the last fill up.
- 4 Enter the distance you have traveled since the last fill up.
- 5 Select Next.

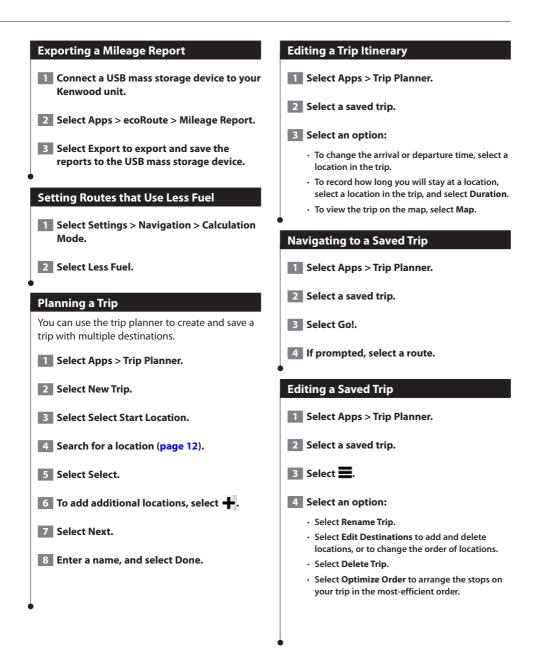
#### Taking the ecoChallenge

The ecoChallenge helps you maximize your fuel economy by scoring your driving habits. The higher your ecoChallenge scores, the more fuel you save. The ecoChallenge collects data and calculates a score whenever you are moving.

The ecoChallenge '**\$** icon displays your current score on the map.

Select Apps > ecoRoute<sup>™</sup> > ecoChallenge.





#### **Importing Routes**

Trip Planner and the KENWOOD Route Collector site can share information for up to 10 routes. You must have an active internet connection to share routes.

1 With an active internet connection, select Apps > Trip Planner.

2 Select an option.

- · Select Local to use a locally saved route.
- Select Server to upload and use a route from the KENWOOD Route Collector site.

#### Viewing Previous Routes & Destinations

Before you can use this feature, you must enable the travel history feature (page 32).

You can view your previous routes and places you have stopped on the map.

#### Select Apps > Where I've Been.

#### Using the World Clock

1 Select Apps > World Clock.

2 If necessary, select a city, enter a city name, and select Done.

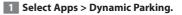
#### Viewing the World Map

Select Apps > World Clock > 👀.

Nighttime hours appear in the shaded area of the map.

#### **Using Dynamic Parking**

Before you can use this feature, you must subscribe to the Dynamic Parking service, and your device must be connected via W-Fi to access connected services. This feature is not available in all areas.



2 Select a parking location.

#### About Real-Time Traffic Camera

Before you can use this feature, you must subscribe to the Real-Time Traffic Camera service, and your device must be connected via W-Fi to access connected services. This feature is not available in all areas.

Traffic cameras provide live images of traffic conditions on major roadways and intersections. You can save cameras that you want to view regularly.

- **1** Select Apps > Real-Time Traffic Camera.
- 2 Select Touch to Add.
- **3** Select a road or an intersection.
- 4 Select Save.

#### Using Movie Time

Before you can use this feature, you must subscribe to the Movie Time service, and your device must be connected via W-Fi to access connected services. This feature is not available in all areas.

Select Apps > Movie Times.

2 Select => Select Day.

**3** Select a Movie Title or Theater Name.

# **Traffic Information**

Using the built-in receiver, the navigation system can receive and use traffic information. When a traffic message is received, you can see the event on the map and change your route to avoid the traffic incident. Traffic information is not available on all models or in all areas.

#### NOTICE

Garmin and JVC KENWOOD is not responsible for the accuracy or timeliness of the traffic information.

Traffic information may not be available in all areas or countries.

#### **Traffic Subscription Activation**

You do not need to activate the subscription included with your navigation system. The subscription activates automatically after your system acquires satellite signals while receiving traffic signals from the pay service provider.

#### **Understanding Traffic**

Your navigation system can receive traffic information using the built-in traffic receiver or a subscription to INRIX Traffic Service. The traffic receiver must be in data range of a station transmitting traffic data to receive traffic information. The traffic subscription activates automatically after your navigation system acquires satellite signals while receiving traffic signals from the service provider. You can add other subscriptions at any time. For information about traffic receivers and coverage areas, go to www.garmin.com/kenwood.

#### **Traffic Data Using INRIX Traffic Service**

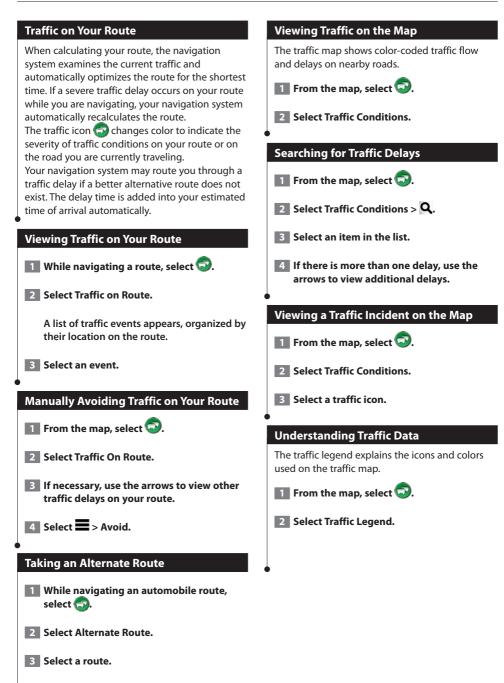
You can purchase a traffic subscription to receive traffic data using INRIX Traffic Service. When your navigation system is connected to INRIX and within a traffic coverage area, your system will begin displaying traffic information. Traffic data is not available in all areas or regions.

See the KENWOOD Route Collector site for INRIX traffic subscription information. Go to www.kenwood-drive.com.

#### About the Traffic Icon

When you are receiving traffic information, a traffic icon appears on the Map. The traffic icon changes color to indicate the severity of traffic conditions.

Color	Description	Meaning
Green	Low severity	Traffic is flowing normally.
Yellow	Medium severity	Traffic is slightly congested.
Red	High severity	Traffic is heavily congested or stopped.
Gray	No data	Traffic data has not updated.



# **Customizing the Settings**

You can customize the settings of your GPS navigation system.

#### **Customizing the Navigation System**

Select Settings.

2 Select a setting category.

**3** Select the setting to change it.

#### **Changing the Map Settings**

#### Select Settings > Map & Vehicle.

- Vehicle—select Change to change the icon used to display your position on the map. Select the icon you want to use, and select Save.
- Driving Map View—select a map perspective.
- Map Detail—adjust the amount of detail shown on the map. More detail may cause the map to redraw slower.
- Map theme—changes the color of the map data.
- **Map Buttons**: Sets which icons are included on the map. Up to three icons can be included on the map.
- Map Layers: Sets the data that appears on the map.
- · Dashboards: Sets the map dashboard layout.
- myMaps: Sets which installed maps the device uses.

#### **Enabling Maps**

**1** Select Settings > Map & Vehicle > myMaps.

2 Select a map.

#### **Changing the Navigation Settings**

#### Select Settings > Navigation.

- Calculation Mode—sets route preference.
- · Avoidances—sets road features to avoid on a route.
- Custom Avoidances—allows you to avoid specific roads or areas.
- Advanced Detours—sets the length of a detour.
- Safe Mode—disables all functions that require significant operator attention and could become a distraction while driving.
- **GPS Simulator**—stops the device from receiving a GPS signal, and saves battery power.

#### **Adjusting the Display Settings**

#### Select Settings > Display.

 Color Mode—select Day for a light background, Night for a dark background, or Auto to automatically switch between the two.

#### **Route Preferences**

# Select Settings > Navigation > Calculation Mode.

The route calculation is based on road speeds and vehicle acceleration data for a given route.

- **Faster Time**—calculates routes that are faster to drive but can be longer in distance.
- **Shorter Distance**—calculates routes that are shorter in distance but can take more time to drive.
- Less Fuel—calculates routes that could use less fuel than other routes.
- Off Road—calculates a direct line from your location to your destination.

#### **Updating the Time Settings**

#### Select Settings > Units & Time.

- Current Time—select Automatic to update the time automatically. When Automatic is not selected, you can adjust the time in 15-minute increments.
- **Time Format**—select a 12-hour, 24-hour, or UTC time format.
- Units—sets the unit of measure used for distances.

#### Setting the Languages

#### Select Settings > Language & Keyboard.

- Voice Language—select a voice for the voice prompts.
- Keyboard Language—sets the language for your keyboard.
- Keyboard Layout—sets the keyboard layout.

#### **Adding Security**

#### Select Settings > Navigation > Safe Mode.

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

#### **Device and Privacy Settings**

#### Select Settings > Device.

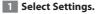
• **About** — displays the software version number, the unit ID number, and information on several other software features.



- You need this information when you update the system software or purchase additional map data (page 33).
- Travel History allows the device to record information for the myTrends (page 19), Where I've Been (page 28) and Trip Log features.
- Clear Travel History—clears all travel history for the myTrends (page 19), Where I've Been (page 28) and Trip Log features.

#### **Restoring Settings**

You can restore a category of settings or all settings to the factory default values.



**2** If necessary, select a settings category.

3 Select => Restore.

Appendix

This appendix provides additional information about your navigation system, such as how to update the software and map data.

#### **Updating the Software**

To update the navigation system software, you must have a USB mass storage device and an Internet connection.

- **1** Go to www.garmin.com/Kenwood.
- 2 Find your model and select Software Updates > Download.
- **3** Read and accept the terms of the Software License Agreement.
- Follow the instructions on the Web site to complete the installation of the software update.

#### **Updating the Map Data**

You can purchase updated map data from Garmin or ask your Kenwood dealer or Kenwood service center for details.

- **1** Go to www.garmin.com/Kenwood.
- 2 Select Order Map Updates for your Kenwood unit.
- **3** Follow the Web site instructions to update your map.

#### **Safety Cameras**

#### 🗥 WARNING

Garmin and JVC KENWOOD are not responsible for the accuracy of, or the consequences of using, a safety camera database.

Safety camera information is available in some locations. Go to http://my.garmin.com for availability. For these locations, the navigation system includes the locations of hundreds of safety cameras. Your navigation system 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.

You can purchase a new region or extend an existing subscription at any time. Each region that you purchase has an expiration date.

#### **Custom POIs (Points of Interest)**

You can manually load custom points of interest (POI) databases, available from various companies on the Internet. Some custom POI databases contain alert information for points such as safety cameras and school zones. The navigation system can notify you when you approach one of these points. You are responsible for ensuring that your use of safety camera information is lawful in your area.

#### 

Garmin and JVC KENWOOD are not responsible for the consequences of using custom POI databases, or for the accuracy of custom POI databases.

After downloading your POI database, use the Garmin POI Loader to install the POIs onto a USB mass storage device. Use the USB mass storage device to load the POIs. The POI Loader is available at www.garmin.com/products /poiloader. Refer to the POI Loader Help file for more information; click **Help** to open the Help file.

### 

 Each time you load custom POIs to the navigation system, any other custom POIs already saved in the system will be overwritten.

#### **Finding Custom POIs**

- Select Where To? > Categories > Custom POIs.
- 2 Select a category.

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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/Kenwood.



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