# iQue® 3600a

*integrated handheld*

## *Que™ applications guide*

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# Introduction

The Garmin® iQue® 3600a handheld uses Garmin GPS technology integrated with the Palm OS® (Operating System) to manage your personal data and provide you with navigational guidance.

## What to Read

Your iQue handheld comes with the following documents: the *Setup Guide* and *Quick Reference Guide*, the *Operating Instructions* on the Setup CD, and this *Que Applications Guide*.

### Setup Guide: Read First

The *Setup Guide,* printed on the CD-ROM packaging, provides computer connection and software installation instructions. The *Quick Reference Guide* explains the basic functions of the iQue 3600a.

### Operating Instructions on the CD

The *Operating Instructions*, available only on the Setup CD, describe how to use the Palm OS® applications that come with your iQue handheld.

### This Que Applications Guide

This *Que Applications Guide* describes how to navigate with the Que Applications. To get the most out of your new navigation system, take time to read this manual and learn the operating procedures.

#### *Manual Conventions*

This manual discusses how to use your iQue 3600a for both aviation and automotive purposes. When a procedure commonly used for aviation navigation is described, the instructions include using the buttons on the Aviation Cradle. When a procedure commonly used for automotive navigation is described, the instructions do not include the Aviation Cradle buttons; you are instructed to "tap" the screen with your stylus.

You can perform most operations by either tapping the screen or using the buttons on the Aviation Cradle. Use whichever method best suits your needs.

For more explanation of the terms and techniques used in this manual, see "Using your iQue 3600a" beginning on page 8.

### *Manual Organization*

This manual is organized into the following sections:

The **Introduction** section contains this preface and the Table of Contents.

The **Getting Started** section provides information such as an overview of unit features and how to turn the unit on and adjust the backlight.

The **Basic Operation in Aviation Mode** section provides you with information about basic features such as creating a Flight Plan and using the Direct To key. More advanced aviation navigation features, such as using VNAV and vectors, are discussed in the **Advanced Operation in Aviation Mode** section.

The **Basic Operation in Automotive Mode** section provides you with information about basic features such as creating a route and marking a waypoint. More advanced navigation features, such as editing waypoints and routes, are discussed in the **Advanced Operation in Automotive Mode** section.

Learn about the additional Garmin Que applications, such as QueAudio and QueFlights, in the **Additional Que Applications** section.

The **Customizing your iQue 3600a and Que Applications** section describes how to set up your iQue to better suit your needs.

The **Appendix** contains information about the iQue 3600a such as specifications and optional accessories. You can also find warranty and FCC information in the Appendix. **Read the Safety Information to learn how to install and use your iQue 3600a safely and responsibly.**

An **Index** is provided at the end of the manual for reference.

# Table of Contents

# Getting Started

This section provides an overview of your iQue 3600a and instructions on how to set up your iQue.

## Getting Satellite Signals

The GPS receiver must be turned on and initialized (given an opportunity to determine its location) before you can use it for navigation.

### Initializing the Receiver

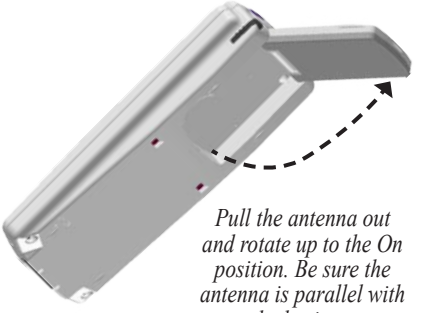
The first time you use the GPS receiver on your iQue 3600a, you will need to initialize it, which can take up to 15 minutes. You can shorten the initialization time by selecting your general location on the map. See "Establishing a New Location" on page 66. After you find your location the first time, the receiver takes less time to gather signals.

**NOTE:** *The antenna is designed to best receive satellite signals when it is aligned parallel with the horizon. If the antenna is positioned vertically, the iQue's ability to receive satellites may be dramatically reduced.*

### To acquire GPS signals:

1. Rotate the antenna so that it is parallel with the horizon. This is the "On" position.
2. Have a clear view of the sky to receive satellite signals. Satellite signals cannot pass through solid materials (except glass) or dense overhead tree cover.

*GPS Antenna in the On Position.*



*Pull the antenna out and rotate up to the On position. Be sure the antenna is parallel with the horizon.*

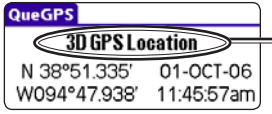
**IMPORTANT:** *Remember that whenever the antenna is not fully closed, the GPS receiver is operating, even when the unit is in Auto-Off mode. Press the Power button to turn off the unit and the GPS receiver.*

## Viewing the GPS Status with QueGPS

QueGPS provides signal strength bars and a status field at the top of the screen so you can view the status of the GPS receiver.

### To determine the GPS Status:

1. Open QueGPS by tapping the status icon  at the bottom of the screen.
2. Observe the message in the top of the window.




*GPS Signal Status*

"Acquiring Satellites"—GPS is on and searching for satellite signals.

"3D GPS Location"—a 3D location fix has been established.

"3D Differential GPS Location"—WAAS satellite signals are being received and a 3D location fix is established.

"2D Differential GPS Location"—only enough WAAS satellite signals are being received to determine a 2D location fix.

"2D GPS Location"—enough satellite signals are being received to establish a 2D fix.

"GPS is Off"—the antenna is closed.

## GPS Tips

While the receiver is gathering information, your location on the map may display as different from where you actually are located. Be patient; as soon as the receiver gathers enough satellite information, your proper location is displayed on the map.

Any time you have traveled more than 600 miles with the GPS receiver turned off, the receiver may take longer than normal to initialize and find your location.

The GPS receiver can lose satellite signals due to interference from such items as buildings, tunnels, and heavy tree cover. Monitoring the GPS status is recommended.

If you do not want the GPS receiver on, keep the antenna closed, particularly when indoors.

For more information about QueGPS, refer to the "QueGPS" section on page 65. To learn about GPS, refer to "Learning about GPS" in the Appendix.

# Aviation Cradle

Use the Aviation Cradle when taking the iQue 3600a in an aircraft. This cradle provides keys that allow you to access aviation applications and features quickly.

## Aviation Cradle Keys and Operation

**Direct To**—opens the Go To page so you can create a Direct To quickly.

**NRST (NEAREST)**—opens the QueFind page so you can find the nearest aviation points.

**MENU**—opens the menu along the top of the screen. Press again to close that menu.

**ESC (ESCAPE)**—exits options menus, applications, or pages (screens). When you are panning the map, press **ESCAPE** to center the map on your current location.

**ENT (ENTER)**—enters information and marks a waypoint when QueMap is open.

**Rocker Key**—highlights an item on the screen and pans across the map. Press up to increase your speed while simulating a flight; press down to decrease.

## Placing the iQue in the Aviation Cradle

When you use the iQue 3600a in an aircraft, you must first place the unit in the Aviation Cradle. The Aviation Cradle provides additional keys to allow you to quickly access integral functions of the iQue 3600a.

Open the antenna before placing the iQue 3600a into the Aviation Cradle. Also, be sure the leather flip cover is removed, as described on page 7, before installing the iQue 3600a in the Aviation Cradle.

### To place the unit in the Aviation Cradle:

1. Open the antenna and be sure the flip cover is removed from the iQue 3600a.
2. Insert the bottom of the iQue 3600a into the Aviation Cradle.
3. Tilt the unit toward the back of the cradle until you hear the locking mechanism snap.

### To remove the iQue 3600a from the Aviation Cradle:

1. Press the Locking Tab in.
2. Pull the iQue forward and lift the unit out of the Aviation Cradle.

The Yoke Mount, which came with your iQue 3600a, attaches the Aviation Cradle to the yoke of your aircraft. For information about installing the Aviation Cradle in your aircraft, read the *Yoke Mount Installation Instructions*.


**iQue 3600a in the Aviation Cradle**

# iQue 3600a Buttons and Icons

For an in-depth look at the iQue 3600a handheld features, refer to the *Operating Instructions*.

## Buttons on the Unit

**Power** button—turns the unit on and off when pressed and released. Hold to adjust the brightness.

**REC (Record)**—records notes and other sounds.

**Thumb Wheel**—scrolls through and selects choices. Roll up to zoom out of the map, or down to zoom in.

**ESC (Escape)**—exits menus or pages.

**Application** buttons—opens the programmed applications.

**Scroll** buttons—scrolls through choices. Zooms in and out of the map (QueMap and QueTerrain). Increases and decreases your altitude when simulating a flight.

**Que** button—opens and scrolls through Que Applications and re-activates the unit when in "Auto-Off" mode. Press and hold to hear GPS status or the next navigation prompt, when in Automotive Mode. To change what the Que button opens, see page 81.

## Icons on the Screen

Each page (or screen) in the iQue 3600a features a row of icons along the bottom to help you move around the software easily. Simply tap one of the icons with your stylus to open the desired application or menu.

**Home** (Applications Launcher)—opens the Applications Launcher that displays all of the applications you have loaded on your iQue 3600a. Keep tapping to scroll through the various Applications Launcher menus, such as **Que** and **System**.

**Menu**—opens the options menu. You can also access the options menu by tapping the menu bar, which displays the application name.

**QueRoutes**—opens the QueRoutes application.

**QueFind**—opens QueFind.

**GPS Status**—displays the status of the GPS signal and battery. Tap to open the QueGPS application.

**QueClock**—opens QueClock.

**Brightness**—opens the brightness adjustment slider for the backlighting and power LED. A bright screen reduces the battery life; the brighter the screen, the shorter the battery life.

**Volume**—opens the Volume page that allows you to adjust the various volume settings, such as the speaker and guidance prompts.

**Graffiti® 2 Arrow**—expands or collapses the Graffiti® 2 text input area.

## Tips for Conserving Battery Power

Close the antenna when you are not using the GPS receiver. If the unit automatically shuts off (Auto-Off mode) and the antenna is open, the battery may discharge. Close the antenna when not in use.

Turn the backlight level down to get the longest battery life.

# Using the Flip Cover

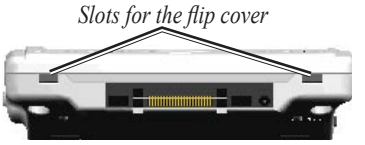
Your iQue 3600a comes with a leather flip cover to protect the screen from being scratched.

### To install the flip cover:

1. Squeeze the wire hinges gently to curve the plastic base.

*Squeeze the wire hinges in*

2. Fit the feet of the plastic base into the slots located on the bottom of the iQue 3600a.




**Bottom of the iQue 3600a**

3. Release the wire hinges. The cover is now installed. When installed properly, the Garmin logo is visible when the cover is flipped shut.

The cover cannot be installed on the unit while it is in the Aviation Cradle. Before installing the unit in the cradle, remove the cover.

### To remove the cover:

1. Open the cover.
2. Squeeze the wire hinges and remove the feet from the slots in the bottom of the iQue 3600a.

# Using Your iQue 3600a

The iQue 3600a is designed to allow quick, convenient selection of navigation options. As you progress through this *Que Applications Guide,* you will often be directed to press a specific key or highlight a field on the screen. When you are directed to press a key, you should press and quickly release the key. If the key needs to be held down, the instructions tell you to do so.

## Common iQue 3600a Handheld Terms

The following terms are used throughout this manual:

**Cursor**—the highlighted area on the screen that can be moved up, down, right, or left with the **Rocker** key to select individual fields. Moving the cursor to a given location allows you to make a selection, enter data, or scroll through a list.

**Field**—the location on a page where data is entered or an option is displayed. Place the cursor on a field using the **Rocker** key or simply tap the field with the stylus.

**Highlight**—when a field is selected on the screen, it is highlighted. The position of the highlight is controlled by the **Rocker** key or where you tap with the stylus.

**On-Screen Button**—similar to "field." Use the **Rocker** key to highlight a button and press **ENTER** or simply tap the button with the stylus.

**Scroll Bar**—when viewing a list of items too long to display on the screen, a scroll bar appears along the right side of the list. The position of the scroll bar indicates which portion of the list is currently displayed. The height of the scroll bar indicates the number of items in the list. To scroll through a list, press the Up or Down **Scroll** buttons or roll the **Thumb Wheel** up or down.

**Default**—the factory setting saved in the unit's memory. You can change the settings as you like, but you can also revert to the factory (default) settings when you select **Restore Defaults**.

**Pick List ▼**—a list of options indicated by a triangle. To open the list, tap the triangle, or highlight it and press **ENTER** on the Aviation Cradle.

## Selecting Options and Entering Data

Use the **ENTER** key and **Rocker** key to select options, enter names and numbers in fields, and activate your selections. When using the stylus you can simply tap the desired selection.

### To select and activate an option:

1. With any Que application displayed, press the **Rocker** key Up, Down, Right, or Left to move the cursor and highlight your desired selection.
2. Press **ENTER** to activate the feature. A list may open with more options. If so, highlight the desired option and press **ENTER** again.

   You can also roll the Thumb Wheel Up or Down to highlight an option. Press the **Thumb Wheel** In to select that option.

### To exit a menu or return to the previous setting:

Press the **ESCAPE** key. When pressed repeatedly, the **ESCAPE** key scrolls through the Applications Launcher screens.

### To enter data in a field:

1. Use the **Rocker** key to highlight the desired field and press **ENTER** to activate the field.
2. Press Up or Down on the **Rocker** key to select characters. Press Right to move to the next character or press Left to move back to the previous character. If there are two lines of data, keep pressing Right to drop down to the next line.
3. After entering the desired data, press **ENTER** to confirm the change.

Not all fields are programmable, such as the date and time on the QueGPS page. When fields are not selectable, the cursor automatically skips over them.

# Que Applications

The Que applications are a group of applications developed by Garmin that provide mapping and navigation capabilities, as well as many other GPS-related functions.

QueMap is the main GPS application that contains the map image. On the QueMap page you can see yourself (an airplane icon when in aviation mode or a triangle when in automotive mode) move across the map. QueMap is used in conjunction with the other Que Applications, such as QueFind, QueNav, and QueTerrain, to provide a robust user interface for your mapping and navigation features.

QueVoice and QueAudio are additional Que applications that allow you to record and listen to sound files.

To quickly access the **Que** Applications Launcher screen, press the **ESCAPE** key repeatedly until it is displayed. You can also tap the **Home** icon repeatedly to display the **Que** Applications Launcher

### To open a Que Application:

1. Press **ESCAPE** to open the Applications Launcher.
2. Use the **Rocker** key to highlight the ▼ in the upper right corner and press **ENTER**.
3. Highlight **Que** from the list and press **ENTER**.


**Que Applications Launcher Screen**

4. Highlight the desired Que Application icon from the menu and press **ENTER**.

## Changing the Mode

The iQue 3600a offers two usage modes: Aviation Mode and Automotive Mode. The main Que applications are linked together in a series that you can cycle through by pressing **Que** button.

Many Que applications also have an options menu. To view the options menu, press **MENU** on the Aviation Cradle, or with your stylus, you can tap the menu icon or the menu bar—the top bar bearing the application name, such as QueNav.

If the usage mode is set to **Auto Select**, the iQue 3600a automatically switches to Automotive Mode when you insert the unit into an automotive cradle. Conversely, it switches to Aviation Mode when you place it in the Aviation cradle. There is no need to switch back and forth manually.

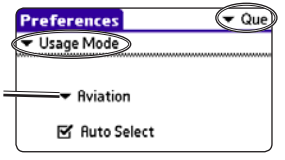
### To change modes manually in QueMap:

1. With QueMap open, press the **MENU** key.
2. Use the **Rocker** key to highlight **Switch Usage Mode**. Press **ENTER**.

### To change modes manually through Preferences:

1. Press **ESCAPE** to display the **All** or **System** Applications Launcher.
2. Use the **Rocker** key to highlight the **Prefs** icon and press **ENTER**.
3. Highlight the ▼ pick list in the top right corner and press **ENTER**.
4. Highlight **Que** and press **ENTER**.
5. Highlight the ▼ pick list in the top left corner and press **ENTER**.
6. Highlight **Usage Mode** and press **ENTER**.

*Highlight and press **ENTER** to change the mode.*




7. Highlight the ▼ pick list and press **ENTER** to display **Aviation** and **Automotive**.
8. Highlight **Automotive** and press **ENTER**.

   To disable **Auto Select**, highlight it and press **ENTER** to remove the check mark.

# Using the Databases

Your iQue 3600a comes with a Jeppesen® database, an Obstacle database, a Terrain database, a Voice Guidance database, and a basemap.

## MapSource Map Data

Optional Garmin MapSource CD-ROMs enhance the versatility of your iQue 3600a. The Auto Navigation Kit includes MapSource City Select detailed maps that provide Points of Interest, such as restaurants, lodging, and attractions, and even addresses and phone numbers for any listed location. BlueChart data provides access to marine navaids, wrecks, obstructions, and anchorage locations.

Refer to the Garmin Web site at http://www.garmin.com/cartography/ for compatible MapSource products. For information about loading MapSource products on your iQue 3600a, refer to the *MapSource Owner's Manual* and online Help File.

## Database Updates

The internal Jeppesen database provides position and facility information for thousands of airports, VORs, NDBs, and more. Updates to the Jeppesen database are available every 28 days online (http://shop.garmin.com/aviation/databases/).

The update programs are designed to operate on Windows®-compatible PCs and requires the included HotSync® cradle to be connected to an available USB port on your computer.

***NOTE:*** *After you perform an update to your Jeppesen Database, verify that all of your flight plans (routes) in your unit are still current. If there is an obsolete Jeppesen aviation point in a saved route, the route will be locked and unusable. You need to create a new route with current Jeppesen Database points.*

An optional FlightBook software package is available to assist with your flight record keeping. Download FlightBook from your iQue 3600a Setup CD or visit http://www.garmin.com/aviation.

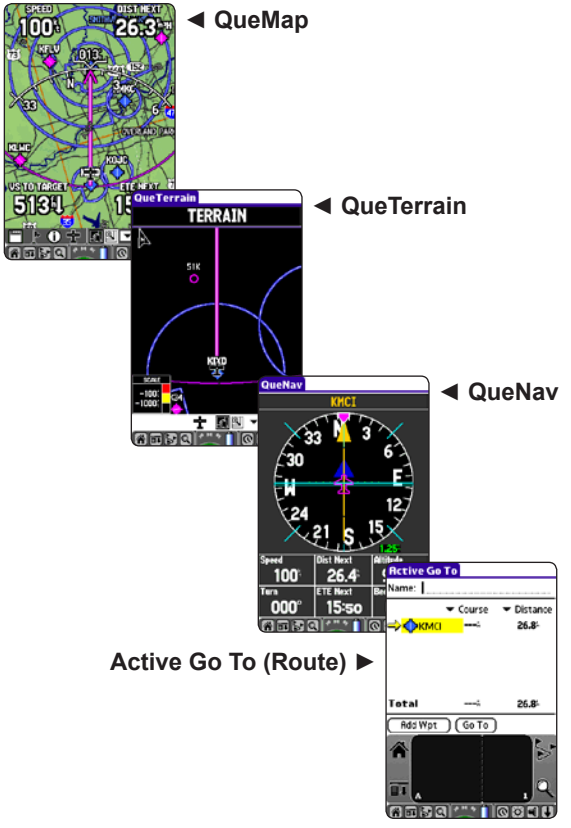
# Basic Aviation Operation

This section describes how to perform basic aviation functions with your iQue 3600a in the Aviation Cradle. Directions include using the keys on the cradle to select and enter information. You can tap the screen with your stylus, if you prefer.

## Aviation Mode Sequence

By default, Aviation Mode features four main applications: QueMap, QueTerrain, QueNav, and Active Route. An example of each application in the Aviation Mode sequence appears to the right. To scroll through the main aviation applications, press the **Que** button on the front of the iQue 3600a. Aviation Mode is the default mode for the iQue 3600a.

To manually change modes, with QueMap open, press the **MENU** key on the Aviation Cradle. Use the **Rocker** key to highlight **Switch Usage Mode** and press **ENTER**. You can also use the stylus to change the mode. Open QueMap and tap the menu icon. Tap **Switch Usage Mode**.

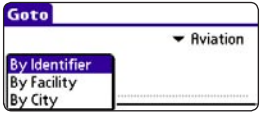


# Creating a Direct To

Press the **Direct To** key to plot a direct course from your current location to any airport, navaid, or other aviation point.

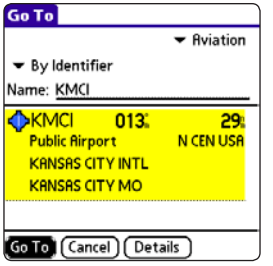
### To go to an airport:

1. Press the **Direct To** key on the Aviation Cradle. The Go To page appears.
2. To search by facility or by city, highlight ▼ **By Identifier**. Press **ENTER**. Highlight the search method (By Identifier, Facility, or City) and press **ENTER**.




*Choose a search method from the ▼ pick list.*

3. Highlight the **Name** field and press **ENTER**.
4. Highlight the first letter of the name and then press the **Rocker** key Up or Down to change the letter. Press the **Rocker** key Right to move to the next letter. Press **ENTER** when done.




*Highlight your destination.*

5. Highlight your destination from the list.
6. Press the **Rocker** key Right to highlight **Go To** and press **ENTER**. The iQue 3600a creates a Direct To from your current location to the point you selected.

## Viewing Details for the Destination

You can view detailed information for your destination. You will find this feature handy for retrieving airport information, such as communication frequencies, runway information, field elevation, and available fuels.

### To view destination airport information:

1. Press **Direct To** to open the Go To page.
2. Enter the identifier, facility name, or city.
3. Highlight the desired destination from the list.
4. Press **ENTER** to open the Details page for that item. The Details page provides information on the Airport, Comm (communications), Runway, and Approach.
5. Highlight the information type you want to view, such as **Comm**, and press **ENTER**.


*Highlight the airport on the Go To page and press **ENTER**. The Airport Details page (shown above) opens.*

6. **Go To** is automatically highlighted. Press **ENTER** to navigate to this destination.

   Highlight **Show Map** and press **ENTER** to view the item on a map.

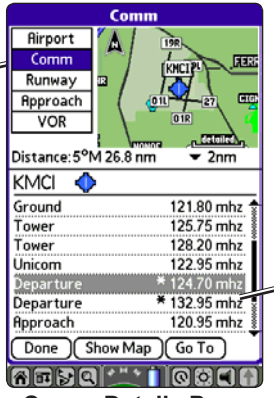
   Highlight **Done** and press **ENTER** when finished viewing the information.

## Viewing Frequency Restrictions

Some frequencies for various airports will be followed by an asterisk (*). This denotes that the frequency has usage restrictions. You can display the usage restriction information on your iQue 3600a.

### To view usage restrictions for a communication frequency:

1. Open the information page for the destination airport (as described on the previous page).
2. Highlight **Comm** and press **ENTER**.

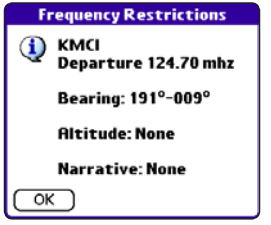



*Comm tab selected to view communication frequencies for this airport*

*Frequency with Usage Restrictions*

**Comm Details Page**

3. Use the **Rocker** key to highlight any frequency with usage restrictions (as denoted by an asterisk) and press **ENTER**. A Usage Restrictions page appears describing the restrictions for the selected frequency.




4. To return to the Comm information page, press **ENTER**.

# Finding a Nearby Point

In an emergency, you can press a few buttons to navigate to the closest point to land.

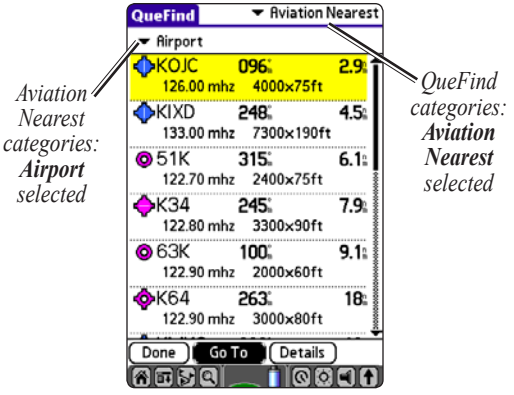
Press the **NEAREST** key on the Aviation Cradle to search for aviation points near your current location and navigate to them quickly. You can search for nearby airports, navaids, and other aviation points.

Press the **NEAREST** key repeatedly to scroll through the Aviation Nearest Categories. If an Aviation Nearest page other than **Airport** is open, such as **VOR**, press and hold the **NEAREST** key to view the Nearest **Airport** list again.

The Aviation Nearest page is part of the QueFind application. You can also search the rest of QueFind by pressing the **NEAREST** key.

### To find the nearest aviation item:

1. Press the **NEAREST** key to open the Aviation Nearest page of QueFind.
2. Keep pressing **NEAREST** until the desired Aviation Nearest category, such as **VOR**, is displayed.




**Aviation Nearest Page**

3. Use the **Rocker** key to highlight the item you are looking for.
4. Press the **Rocker** key right to highlight **Go To** and press **ENTER** to begin navigating to the selected item.

## Aviation Nearest Categories

Press the **NEAREST** key to open the Aviation Nearest page of QueFind. Continue pressing **NEAREST** to scroll through the different Aviation Nearest categories.

The Aviation Nearest categories are as follows:

**Airport**—nearest 15 with identifier, bearing, distance, length of longest runway, and common traffic advisory (CTAF) or tower frequency.

**Weather (Airport Weather Sources)**—nearest 15 airport weather information sources, including AWOS, ASOS, and ATIS.

**VOR (VHF Omnidirectional Radio Beacons)**—nearest 15 with identifier, facility type (symbol), bearing, distance, and frequency.

**NDB (Non Directional Beacons)**—nearest 15 with identifier, facility type (symbol), bearing, distance, and frequency.

**Intersection**—nearest 15 with identifier, bearing, and distance.

**User (Waypoints)**—nearest 15 with name, symbol, bearing, and distance.

**ARTCC (Air Route Traffic Control Center)**—nearest 5 with bearing, distance, and frequency.

**FSS (Flight Service Station)**—nearest 5 with bearing, distance, frequency, and VOR (for duplex operations).

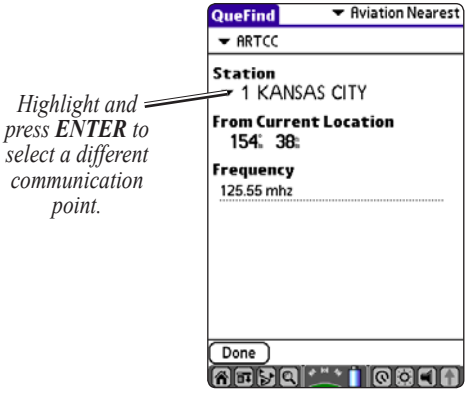
**Airspace**—up to 15 (depending on number of alerts provided) with name, time to entry (when applicable), and status.

## Viewing Communication Frequencies

The Aviation Nearest pages list up to five nearest flight service station (FSS) and air route traffic control center (ARTCC) points of communication. The closest communication point is displayed first, with additional points available when selected. For duplex operation, the corresponding VOR is listed (by identifier) and the transmit and receive frequencies are denoted by a TX and RX respectively.

### To view additional communication frequencies:

1. Press the **NEAREST** key to open the Aviation Nearest page of QueFind. Keep pressing it until the **ARTCC** or **FSS** category is displayed.
2. Press the **Rocker** key Down to highlight the ▼ **Station** pick list and press **ENTER**.




**ARTCC Aviation Nearest Page**

3. Highlight the desired numbered item from the list and press **ENTER** to display the communication information. The lowest numbers on the list are the closest communication points.

# Selecting an Approach

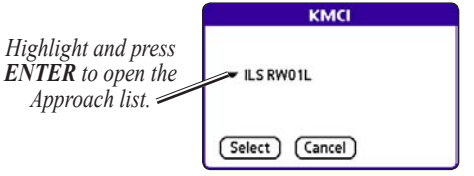
When you select an approach, the destination airport is replaced with the sequence of waypoints for the selected approach. Keep in mind that the airport must have a published approach (GPS, RNAV, VOR, NDB, localizer, or ILS) and only the final course segment (usually from final approach fix to missed approach point) of the published approach is available in the iQue 3600a.

***NOTE:*** *The approaches provided in the Jeppesen database are for monitoring purposes only. The iQue 3600a is not an IFR-approved instrument and should not be used as a primary source of navigation guidance in instrument conditions.*

***NOTE:*** *When using a route, and on the final leg of the route to the destination airport, the Select Approach option allows you to quickly retrieve and select available approaches. This option overrides your current route. The original route is still available for later use.*

## To select an approach for the destination airport:

1. While navigating to a destination, open the Go To page or the Active Route page.
2. Press **MENU** to open the options menu.
3. Highlight **Select Approach** and press **ENTER**.
4. Use the **Rocker** key to highlight the ▼ pick list and press **ENTER**.



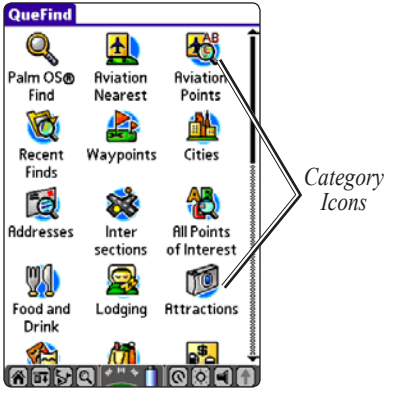

5. Highlight the approach you want to use from the pop-up list and press **ENTER**.
6. Highlight the **Select** button and press **ENTER**.
7. A Vectors pop-up window appears. See page 33 for more information on vectors to final. Use the **Rocker** key to select **Yes** or **No** and press **ENTER**. The iQue 3600a removes the destination airport from the Go To and replaces it with the approach waypoints.

# Finding Land Points

To fully take advantage of the trip-planning capabilities of the iQue 3600a, you can find points on the land near your destination. For example, you can find a restaurant to eat dinner near your landing location.

### To Find Land Points:

1. Press **Direct To** to display the Go To page.
2. Press **MENU** to open the options menu.
3. Highlight **Find Land Points** and press **ENTER**.
4. QueFind opens. Highlight the icon for the category you want to search, such as **Food & Drink**, and press **ENTER**.
5. Highlight the **Name** field and press **ENTER**. Use the **Rocker** key to begin entering the name or part of the name. When the desired location appears in the results list, press **ENTER**, use the **Rocker** key to highlight the desired location, and press **ENTER** to select it.
6. Use the **Rocker** key to highlight **Save Waypoint** to save the location as a waypoint to use later, or highlight **Done** to return to the results list. Press **ENTER**.




**QueFind Menu**

To use the saved waypoint as a destination once you are on the ground, press **Direct To** and select the saved waypoint from the **Waypoints** category.

Refer to "Finding an Item" on page 46 for complete information about QueFind.

# Marking a Waypoint

Waypoints are locations or landmarks you record and store in your GPS. They may be checkpoints on a route or significant ground features.

The **ENTER** key lets you quickly capture your present position to create a new waypoint. You must have a valid 2D or 3D fix to mark your position.

For more information about editing waypoints, see the "Editing Waypoints" section beginning on page 57.

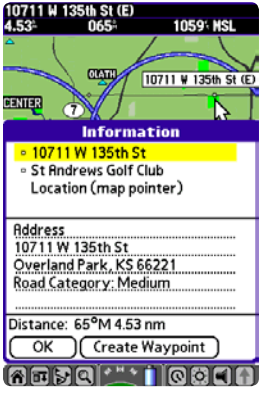
### To mark your present position:

1. Press and hold **ENTER** until the Mark Waypoint page appears. While in QueMap, you can tap the Flag icon .
2. To accept the waypoint with the default name ("Waypoint"), use the **Rocker** key to highlight **OK** and press **ENTER**.

*TIP: You can use the stylus and the Graffiti® 2 area to "write" a new name for the waypoint on the Mark Waypoint page.*

### To mark a selected location as a waypoint:

1. Open QueMap by pressing the **Que** button.
2. Use the **Rocker** key to move the arrow to the location you want to save as a waypoint.
3. Press **ENTER** to open the information page.




*Saving the selected item as a waypoint*

4. To save the waypoint, use the Rocker key to highlight **Create Waypoint** and press **ENTER**.
5. To accept the waypoint with the default name, highlight **OK** and press **ENTER**

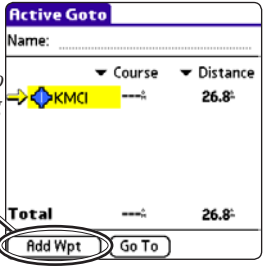
# Creating a Flight Plan (Route)

When you create a Flight Plan (or route) using the Active Route page, the route is automatically saved. For more information about routes, refer to page 59.

### To create a route:

1. Press the **Que** button to display the Active Route page. Highlight **Add Wpt** (Waypoint) and press **ENTER**.
2. QueFind opens allowing you to select an aviation point. Enter the ID, Facility name, or city. Highlight the desired point in the list.
3. Highlight **OK** and press **ENTER**. The selected point is added to the route.

*Highlight and press **ENTER** to continue adding waypoints.*




*One leg added to the route.*

4. Continue steps 2 and 3 until all points are added to the route. The route is automatically saved to the unit's memory. The iQue 3600a begins navigating the route. To stop navigation, press **MENU**, highlight **Deactivate,** and press **ENTER**.

### To navigate a Saved Route:

1. Press **ESCAPE** until the **Que** Applications Launcher is displayed.
2. Use the **Rocker** key to highlight **Routes** and press **ENTER**.
3. From QueRoutes, highlight **Saved Routes** and press **ENTER**.
4. Highlight the route you want to take from the list and press **ENTER**.
5. On the Route page, highlight **Activate** and press **ENTER**.

***NOTE:** After you perform an update to your Jeppesen Database, verify that all of your flight plans in your unit are still current. If there is an obsolete Jeppesen aviation point in a saved route, the route will be locked and unusable. You need to create a new route with current Jeppesen Database points.*

# Following Your Flight Plan

Once you have activated a flight plan (or route), the iQue 3600a guides you to your destination using a variety of tools, such as QueMap and QueNav.

## Track Your Progress with QueMap

Press the **Que** button to open QueMap. Your current position is shown as an airplane icon when in Aviation Mode. As you move, the icon moves with you, turning when you turn and stopping when you stop.

A navigation arc appears by default on QueMap. The arc works like the compass on QueNav, indicating the desired course and your course deviation. If the route line and pink arrow are heading straight up, you are heading directly to your destination.

There are two map orientation options: North Up orients the map like a paper map, while Track Up orients the map in the direction of travel. When using Track Up, the North arrow indicates the orientation. To change the map orientation, open **Que Maps Preferences**. Refer to page 76 for information.

### *Panning and Zooming the Map*

Press the **Rocker** key in any direction to pan the map.

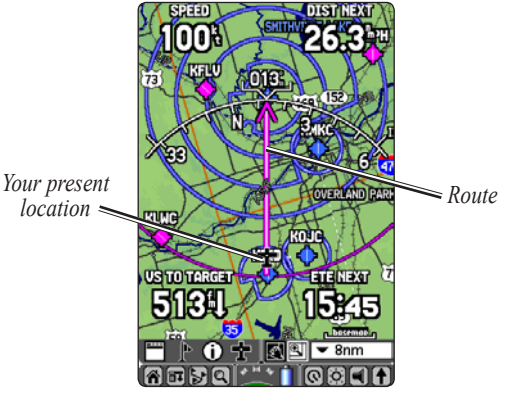
Press the **Up Scroll** button to zoom out.

Press the **Down Scroll** button to zoom in.

Press **ESCAPE** to re-center the map.

To view information about a map item, highlight the item with the panning arrow and press **ENTER**.

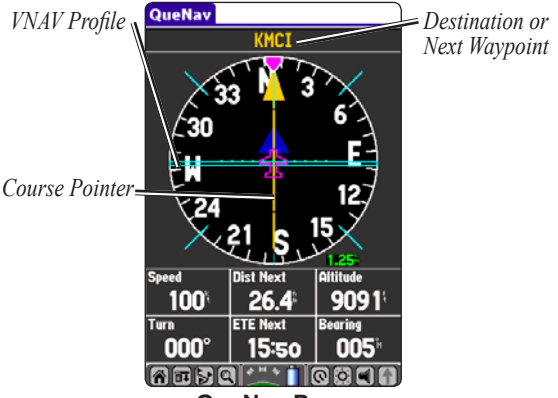
For information about using the icons along the bottom of the screen, see page 54.




QueMap

## View the HSI with QueNav

Press the **Que** button repeatedly to display QueNav and view the HSI and other information about your flight.

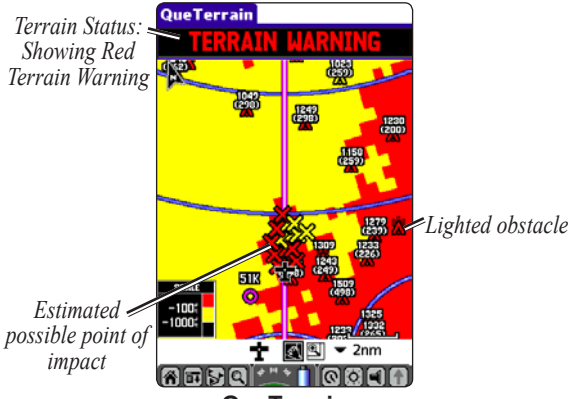



**QueNav Page**

Use the course pointer and bug indicator on the compass ring to determine if you are on the proper course. Also, you can help keep the aircraft within the VNAV profile by observing the VNAV indicator (teal horizontal bars on the HSI), when visible.

## Watch for Terrain Changes and Obstacles

Press the **Que** button until QueTerrain is displayed. QueTerrain provides an overhead view of the terrain and obstacles you are flying over. Obstacles are also shown on QueMap. Alert windows pop up on any page to inform you of your proximity to the terrain and obstacles. These alerts depend upon user-defined parameters in Terrain Preferences.




**QueTerrain**

### Terrain Information

The areas of the terrain appearing in red are predicted to be within 100 feet above or below the altitude of the aircraft. The yellow terrain areas are predicted to be between the user-defined **Caution Elevation** and 100 feet below the altitude of the aircraft. By default, the **Caution Elevation** is 1000 feet; therefore, the areas in yellow are between 1000 feet and 100 feet below the aircraft. The black areas are further than the **Caution Elevation**. A projected point of impact is marked with an X.

### Obstacle Information

Obstacles are shown in QueTerrain and QueMap. Standard aeronautical chart symbols are used for lighted or unlighted obstacles taller than 200 feet Above Ground Level (AGL). Refer to the Obstacle Icons legend to the right.

Each obstacle is labeled with the altitude of the top of the obstacle, or Mean Sea Level (MSL). Each obstacle also lists the actual height of the obstacle, or Above Ground Level (AGL) in parentheses.

*Lighted Obstacle 1000 ft AGL and higher.*

*Unlighted Obstacle 1000 ft AGL and higher.*

*Lighted Obstacle below 1000 ft AGL.*

*Unlighted Obstacle below 1000 ft AGL.*

**Obstacle Icons**

### Terrain and Obstacle Color Code

The terrain and obstacles shown in QueTerrain and the obstacles shown in QueMap follow the following color code:

**Red**: Terrain or obstacle is within 100 feet of the aircraft.

**Yellow**: Terrain or obstacle is between the user-defined **Caution Elevation** and 100 feet below the aircraft.

You can pan the map in QueTerrain just as you pan the map in QueMap. See page 24 for more information. To customize QueTerrain, refer to pages 36–37.

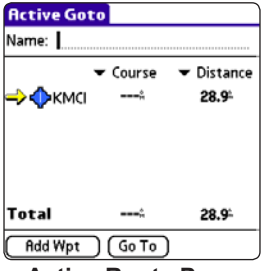
## Watch the Pop-up Alerts

As you travel, you may see a variety of alerts, such as Airspace, Terrain, Obstacle, and Descent Rate Alerts, appear on your screen while in other applications.

When a Terrain or Obstacle alert pops up, you can view any terrain and obstacles that might become a problem to you. Possible points of impact are displayed as Xs. Adjust your altitude to avoid the obstacles and terrain. To close the pop-up alert and return to the application you were using, tap the screen. You can also press **ESCAPE** to close the alert.

## Track Your Progress with Active Route

Press the **Que** button until the Active Route page is displayed. This page shows each point of your current route. The next point in the route is marked with an arrow. As you navigate a route, the list automatically updates displaying the active point at the top.



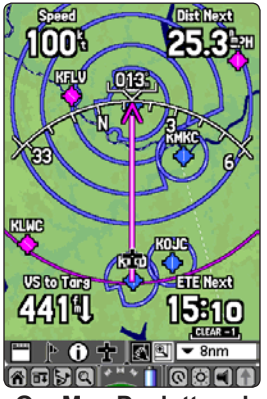

**Active Route Page**

Press **MENU** while on the Active Route page to open the options menu. You can edit the route using the **Edit** menu. You can also change the data fields to suit your needs. Use the **Options** menu to set your fuel flow or plan your route and view the details of the point.

# Advanced Aviation Operation

This section describes more advanced aviation features, such as setting up your VNAV profile and using vectors. Some procedures are not described using the Aviation Cradle, because you may perform these operations before boarding the aircraft.

## Using Advanced QueMap Features




**QueMap Decluttered**

### To declutter the map:

1. Open QueMap by pressing the **Que** button.
2. Tap the **Menu** icon .
3. Tap **Declutter.** The iQue 3600a removes items from the map to “declutter” the display.

   The iQue 3600a has three levels of declutter. The first level shown is identified by **Clear-1** over the map scale. The background map detail—including highways, cities, rivers & smaller lakes—is removed from the map display.
4. Repeat steps 2 and 3: Airspace boundary detail is removed from the map display. **Clear-2** appears below the map scale.
5. Repeat steps 2 and 3 again: Only the waypoints or navaids that are part of the current Go To or route appear on the map display. **Clear-3** appears below the map scale.
6. Repeat one more time to return to the full display

To quickly declutter the map, press the **ENTER** key. You can also declutter the map in QueTerrain. Follow the previous steps when QueTerrain is open.

### To set the bug indicator:

1. From QueMap, tap the **Menu** icon.
2. Tap **Set Bug Indicator.**
3. A list of Bug Indicator options appears. Tap **Off** to turn the Bug Indicator off.

   Tap **Bearing** to show the bearing to the destination waypoint.

   Tap **Course to Steer** to show how you need to steer to stay on course. **Course to Steer** is selected by default.

   Tap **User Selected** to enter a heading reference. This provides a visual cue of an important heading for current or future use.
4. Tap **OK** when finished.

### To set the CDI (Course Deviation Indicator) scale:

1. From QueMap, tap the **Menu** icon.
2. Tap **Set CDI Scale.**
3. Tap the desired setting.

You can also set the CDI Scale and Bug Indicator for QueNav. Open QueNav and follow the steps listed above.

### To measure the distance between two points:

1. From QueMap, tap the **Menu** icon to open the options menu.
2. Tap **Que** to display the Que options menu.
3. Tap **Measure Distance**. The Measure Distance map opens. A push pin appears on the map at your present position. This is the location from which you will measure (the start point).

   To move the push pin to a different location, tap the desired location on the map. Tap the push pin icon in the toolbar.
4. Tap the point to which you want to measure (the end point). The bearing and distance from the starting point (push pin) are displayed along the bottom of the screen.
5. Tap **Done** to finish.

You can use the Aviation Cradle to measure distance. Press the **Rocker** key to select a start point and press **ENTER**. Press the **Rocker** key to select the end point. Press **ESCAPE** when done.

# Using Advanced QueNav Features

Tap the menu icon to view additional options when using QueNav. A description of some of these options appears below. Refer to the previous page to learn how to set the bug indicator and CDI (Course Deviation Indicator) scale.

## Enabling OBS

Enabling OBS mode suspends auto sequencing of waypoints, but retains the current "active to" waypoint as your navigation reference even after passing the waypoint. When OBS is disabled the iQue 3600a returns to normal operation, with automatic sequencing of waypoints. OBS mode also allows the pilot to set the desired course to a waypoint.

### To manually set a course to the destination waypoint:

1. While navigating a route, press the **Que** button to open QueNav.
2. Press **MENU**.
3. Highlight **Set OBS & Hold** and press **ENTER**. An OBS data field appears on the display.
4. Press the **Rocker** key and press **ENTER**. Use the **Rocker** key to enter the OBS angle. Press **ENTER** when the number is entered. Highlight **OK** and press **ENTER**. The course deviation needle and desired course pointer now provide steering guidance to the selected course.

   To release the waypoint hold and return to automatic sequencing of route waypoints, press **MENU**. Highlight **Release Hold** and press **ENTER**.

## Capturing the VNAV Profile

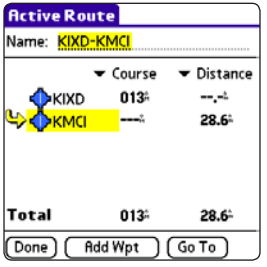
Select **Capture VNAV Profile** from the QueNav options menu to center or re-center the VNAV indicator on the graphic HSI. You must have entered a valid vertical navigation profile and be navigating flight plan. See "Setting up Your VNAV Profile" on page 34 for more information on vertical navigation.

# Editing Your Flight Plan (Route)

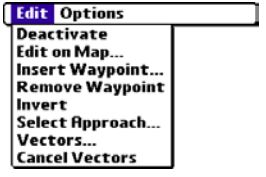
After you have created a flight pan (or route), you can edit the route using the Active Route page.

### To edit a route:

1. Press the **Que** button to open the Active Route page.



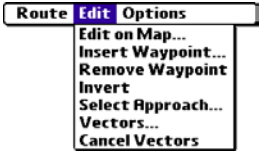

2. Tap the menu bar or the menu icon.




3. Tap **Edit**. Select one of the following editing methods from the list:
   - **Insert Waypoint**—allows you to add an Aviation Point using QueFind. Inserts the new point before the selected point.
   - **Remove Waypoint**—deletes the selected point from the route.
   - **Invert**—arranges the route from end point to start point.

### To edit a saved route:

1. Tap the **QueRoutes** icon.
2. Tap **Saved Routes**.
3. Tap the route you want to edit.
4. On the Route Page, tap the menu icon.



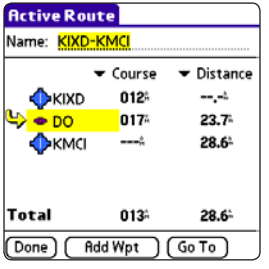

5. Tap the desired menu option to edit the route.

### To edit the route on the map:

1. Press the **Que** button to open the Active Route page. Tap the menu icon and then tap **Edit on Map**.
2. With the stylus, tap the route line. The line turns teal green.
3. Tap the arrow at the bottom of the screen.
4. Zoom and pan the map as needed. Tap the location you want to add to the route.
5. Tap the arrow again.
6. Repeat steps 2 through 5 until all points are added to the route. Tap **Done**.


### To edit the route on the map with the Aviation Cradle:

1. Press the **Que** button to open the Active Route page.
2. Press **MENU**. Use the **Rocker** key to highlight **Edit on Map** and press **ENTER**.
3. Use the **Rocker** key to select the route line. The line turns teal green. Press **ENTER**.
4. Use the **Rocker** key to pan to the location you want to add to the route. Press **ENTER**.
5. Repeat steps 2 through 4 until all points are added to the route. Press **ESCAPE** to exit.



## Understanding Vectors

The Vectors window that appears at the last step of selecting an approach determines how you will navigate to the final waypoint in the approach.


If you select **Yes**, the iQue 3600a creates an extension of the final course beyond the final approach waypoint in the database, called the final approach fix (FAF). The iQue 3600a provides no guidance to the inbound course. The course deviation needle on the graphic HSI remains off-center until you are established on this final approach course. QueMap displays an extension of the final approach course using a bold magenta line. The HSI automatically slews (rotates to show the direction) to the inbound course. On the Active Route (or Active Approach) page, a Vector to Final symbol appears adjacent to the first approach waypoint.

If you select **No** on the Vectors window, the iQue 3600a creates a straight-line course directly to the first waypoint in the approach (from wherever you are when you initiate the approach). This works much like any other route with guidance from point-to-point and a turn usually required as you cross each waypoint.

***NOTE:*** *Steep Turns are not allowed on an IFR (Instrument Flight Rules) approach. Follow plate or air traffic control instructions to complete the approach without a steep turn.*

If air traffic controls clears your approach to an airport, loading the approach replaces your Direct To with a route to the FAF. Load the approach only when cleared by air traffic control.

# Setting up Your VNAV Profile

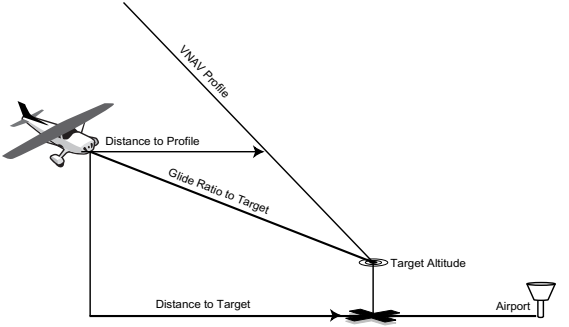
The VNAV Preferences provide settings for the vertical navigation feature. These settings create a three-dimensional profile that guides you from your present position and altitude to a final (target) altitude at a specified location.

To use the vertical navigation feature, your ground speed must be greater than 35 knots and you must be navigating a Go To or a route.

Once the VNAV profile is defined, watch for the teal bar on the HSI and pay attention to the alerts to help keep you informed of your progress.

As you approach the initial descent point, the time to vertical navigation field (ETV) indicates the time to reach the initial descent point.

The descent angle locks to prevent changes in speed from altering the profile. The VNAV feature does not take into account any changes in groundspeed that occur during the transition from level flight to descent or climb.



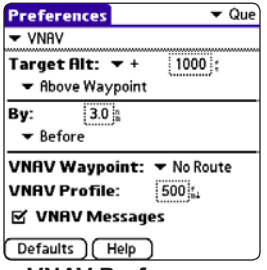

**Visual representation of VNAV**

***NOTE:*** *The iQue 3600a is a VFR navigation tool and should not be used to perform instrument approaches. VNAV is only a VFR navigation instrument and is not intended for instrument approaches.*

## Customizing Your VNAV Profile

To quickly open VNAV Preferences while in Aviation Mode, tap the **QueRoutes** icon and tap **VNAV**.

You can also use the Aviation Cradle to open VNAV Preferences. Press **ESCAPE** to display the **Que** Applications Launcher. Use the **Rocker** key to highlight **QueRoutes** and press **ENTER**. Highlight **VNAV** from the list and press **ENTER**.




**VNAV Preferences**

**Target Altitude**—allows the entry of the altitude you want to be at when you reach your target location. Select **Above Waypoint** to use the field elevation for airports in the Jeppesen database, or **Above MSL** to specify an exact MSL altitude target.

**By**—defines the target location by the distance **Before** or **After** the VNAV Waypoint (normally the final destination airport). To set the target location at the VNAV Waypoint, enter a distance of zero.

**VNAV Waypoint**—allows you to select any waypoint along the currently active route (or Go To) as your reference waypoint, after you begin navigating. Your destination is automatically selected as the VNAV Waypoint, but you can change it if necessary.

**VNAV Profile**—allows you to select the desired descent rate.

**VNAV Messages**—enables and disables the VNAV alert messages.

## Using the VNAV Feature

The VNAV Indicator appears as a teal bar on the QueNav HSI. A pop-up message appears when you are approaching the VNAV Profile. When the bar is in the vertical center of the HSI, you are at the proper altitude for the VNAV Profile.

# Setting up QueTerrain

Access the Terrain page options menu by pressing **MENU** while you are on the Terrain page.

The options menu allows you to set up the page layout, change the data fields, declutter the map, and also disable and enable alerts.

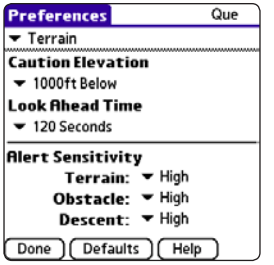
The Terrain Preferences allow you to set the levels for alerting you to the terrain as well as obstacles in or near your flight path.

Refer to page 82 for information about changing data fields and page 92 for information about the data field types.

### To set up QueTerrain:

1. With QueTerrain open, tap the menu bar or menu icon. Tap **Preferences**.

   You can also select **Prefs** from the Applications Launcher. Highlight **Que** from the ▼ pick list on the far right. Then select **Terrain** from the ▼ pick list on the left.




**Terrain Preferences**

2. The Terrain Preferences page opens. Make the desired adjustments as described on the next page.
3. To accept the changes and exit Terrain Preferences, tap **Done**.

### To quickly enable or disable alerts:

1. With QueTerrain open, tap the menu bar or menu icon.
2. Tap **Enable/Disable Alerts**.

## Caution Elevation

Select the desired **Caution Elevation**. If the terrain or an obstacle is within the **Caution Elevation** you entered, the iQue 3600a displays an alert.

## Look Ahead Time

The **Look Ahead Time** for Terrain and Obstacle Alerts determines the time when an alert annunciation (a pop-up window) occurs. For example, if 120 seconds is selected, the iQue 3600a displays an alert 120 seconds before you reach the terrain or obstacle.

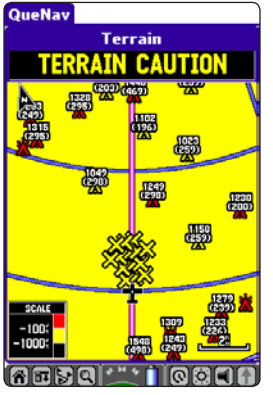
## Alert Sensitivity

The three Alert Sensitivity settings (**Terrain**, **Obstacle**, and **Descent Rate**) determine what level of alerts are annunciated. The iQue 3600a defaults to **High** sensitivity, which annunciates all red and yellow alerts at the time set in **Look Ahead Time**. **Medium** sensitivity annunciates all of the red and the highest priority of yellow alerts, and **Low** sensitivity only annunciates red alerts.

*NOTE: A red X appears on the Terrain page if the unit has not gathered elevation information.*

## Viewing the Alert Pop-up Windows

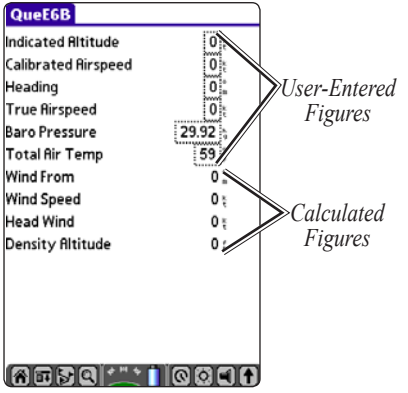
While in any application in the iQue 3600a, pop-up alert windows appear to inform you of an extreme descent rate, an obstacle warning, or a terrain warning. The alert windows appear over the current application, as shown in the image below. To close the pop-up alert and return to the application you were using, tap the screen. You can also press **ESCAPE** to close the alert.




*Obstacle Caution Alert displayed while QueNav is open.*

# QueE6B

QueE6B calculates density altitude and winds aloft, based upon information you enter. To open QueE6B, press **ESCAPE** to display the **Que** Applications Launcher. Highlight **QueE6B** and press **ENTER**.




**QueE6B**

**Indicated Altitude**—required entry for density altitude/true airspeed calculation. Enter the aircraft's altimeter reading.

**Calibrated Airspeed**—required entry for density altitude/true airspeed calculation. Enter the aircraft's airspeed indicator.

**Heading**—required entry for winds aloft calculation. Use the heading from the aircraft's heading indicator or directional gyro.

**True Airspeed**—(calculated or user-entered figure) required entry for winds aloft calculations.

**Baro Pressure**—required entry for density altitude/true airspeed calculation. Use current altimeter setting (barometric pressure).

**Total Air Temperature**—required entry for density altitude/true airspeed calculation. Total Air Temperature (TAT) is the temperature of the air including the heating effect caused by speed. Use the temperature reading on a standard outside air temperature gauge found on most piston aircraft.

**Wind From—**(calculated figure) determined from entry of heading and true airspeed.

**Head Wind—**(calculated figure) determined from entry of heading and true airspeed.

**Wind Speed—**(calculated figure) determined from entry of heading and true airspeed.

**Density Altitude—**(calculated figure) determined from entry of indicated altitude, baro pressure, and total air temperature.

### To calculate density altitude and true airspeed:

1. From **QueE6B**, highlight the **Indicated Altitude** field (at the top of the page) and press **ENTER**.
2. An entry window opens. Press the **Rocker** key, then press **ENTER**. Use the **Rocker** key to enter the altitude displayed on your altimeter. Press **ENTER** when finished.
3. Highlight **Done** and press **ENTER** to return to QueE6B.
4. Repeat steps 1, 2, and 3 to enter the **Calibrated Airspeed**, **Baro Pressure,** and **Total Air Temperature**.

The calculated figures for **True Airspeed** and **Density Altitude** are displayed.

### To calculate winds aloft:

1. Follow the previous steps to determine true airspeed. You can also manually enter your true airspeed, if known.
2. Use the **Rocker** key to highlight the **Heading** field and press **ENTER**.
3. An entry window opens. Press **ENTER** and use the **Rocker** key to enter the aircraft heading displayed on your directional gyro or compass. Press **ENTER** when finished.
4. The calculated figures for **Head Wind**, **Wind From**, and **Wind Speed** are displayed.

***NOTE:*** *If a True North reference is currently selected as the heading reference on your iQue 3600a, you must enter Heading using a True North reference to accurately determine winds.*

### To clear the fields in QueE6B:

1. Open QueE6B.
2. Press **MENU** to open the options menu.
3. Highlight **Restore Defaults** and press **ENTER**.

# QueWeight & Balance

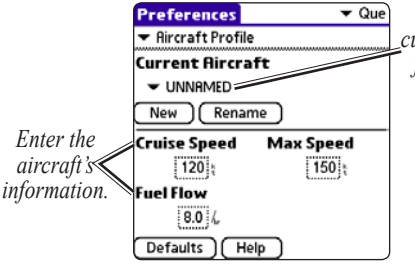
QueWeight & Balance may be used during your pre-flight preparations to calculate the total weight, moment, and center of gravity (CG) figures.

Before entering the various figures, you need to determine the basic empty weight of the airplane and the arm (or "station") for each weight entered. These figures should be determined using the pilot's operating handbook for your airplane. The pilot's operating handbook will also note the weight limitations and fore/aft CG limits. Compare those figures to the values calculated by the iQue 3600a.

To open QueWeight & Balance, display the Que Applications Launcher by pressing **ESCAPE**. Highlight **QueWeight & Balance** and press **ENTER**.

## Entering the Aircraft Profile

Before you perform Weight and Balance operations, you should enter your aircraft profile. Define the cruising speed, maximum speed, and fuel flow for up to ten aircraft that you regularly fly in Aircraft Profile Preferences. Cruising speed and fuel flow are used as default settings when viewing trip planning information on the Active Route page. The maximum speed figure is used to define the range for airspeed in QueNav and is automatically updated if you exceed this figure.



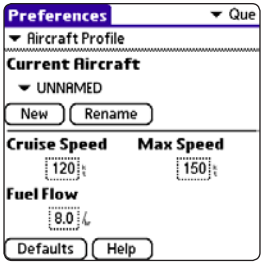

**Aircraft Profile Preferences**

### To enter an aircraft profile:

1. Tap the **Home** icon to open the **Que** Applications Launcher.
2. Tap **QueWeight & Balance**.
3. Tap the **Menu** icon and tap **Preferences**. The Aircraft Profile Preferences page opens.
4. Tap the **New** button.
5. Use the Graffiti® 2 area to enter the aircraft tail number or other identifying information. Tap **Done**.
6. Use the Graffiti® 2 area to enter information for the cruising and maximum speeds for your aircraft and the aircraft's fuel flow. Tap **Done**.
7. Tap **Done** to exit the Aircraft Profile Preferences.

### To select a saved aircraft profile:

1. From Aircraft Profile Preferences, tap the ▼ **Current Aircraft** pick list.
2. Tap the desired aircraft profile on the list.




**Aircraft Profile Preferences**

### To rename or delete a saved aircraft profile:

1. From Aircraft Profile Preferences, tap the ▼ **Current Aircraft** pick list.
2. Tap the desired aircraft profile on the list.
3. Tap the on-screen **Rename** or **Delete** button. If **Rename** is selected, use the Graffiti® 2 area to enter a new tail number. Tap **Done**.

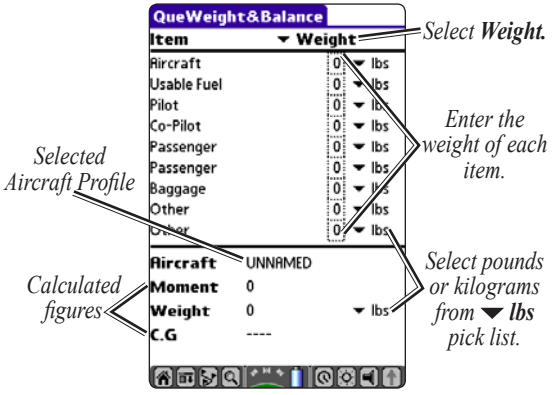
## Calculating Weight and Balance

After you have entered the proper Aircraft Profile information, be sure the proper Aircraft is selected in QueWeight & Balance. To select a different Aircraft or alter the Aircraft Profile, press **MENU**, highlight **Aircraft Profile**, and press **ENTER**. For specific instructions, see the "Entering the Aircraft Profile" section on the previous page.

To perform weight and balance calculations, enter all the weights of each item in the aircraft (including the aircraft). Also, enter the location of each item so that the center of gravity can be calculated.

### To enter weight information:

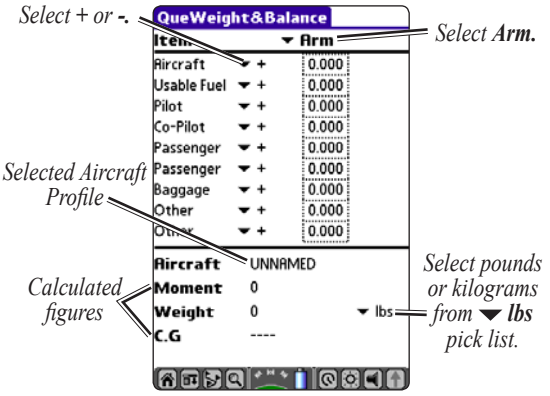
1. Tap the **Home** icon to open the **Que** Applications Launcher.
2. Tap the **QueWeight & Balance** icon.
3. Tap the desired weight field and press **ENTER**.
4. Use the Graffiti® 2 area to enter the weight. Tap **Done** to return to QueWeight & Balance.
5. Repeat steps 3 and 4 until you have entered all of the weight figures.




**QueWeight & Balance: Weight entry**

### To enter arm information (balance):

1. From QueWeight & Balance, tap the ▼ **Weight** pick list. Tap **Arm**.




**QueWeight & Balance: Arm entry**

2. Tap the desired arm field.
3. An entry window opens. Use the Graffiti® 2 area to enter the figure. Tap **Done** to return to QueWeight & Balance.
4. Tap the ▼ **+** pick list. Tap **-** or **+** to indicate the placement within the aircraft.

### To calculate Weight and Balance:

Enter all weight and arm figures as described in the previous two procedures.

The calculated moment, weight, and CG figures appear at the bottom of the page. Keep in mind that the "Aircraft" (empty weight/arm) figures must be entered as a reference to calculate a valid moment, weight, and CG.

### To empty the aircraft:

1. With QueWeight & Balance open, tap the **Menu** icon .
2. Tap **Empty Aircraft**. The iQue 3600a retains the aircraft's empty weight and arm figures and other arm figures, but returns all other weight values to zero.

# Basic Automotive Operation

Automotive Mode allows you to navigate in your car or vehicle. This section describes how to perform operations by tapping the screen with the stylus.

If you are using the optional Auto Navigation Kit, the iQue 3600a automatically switches to Automotive Mode by default when you place the unit in the Automotive Cradle.

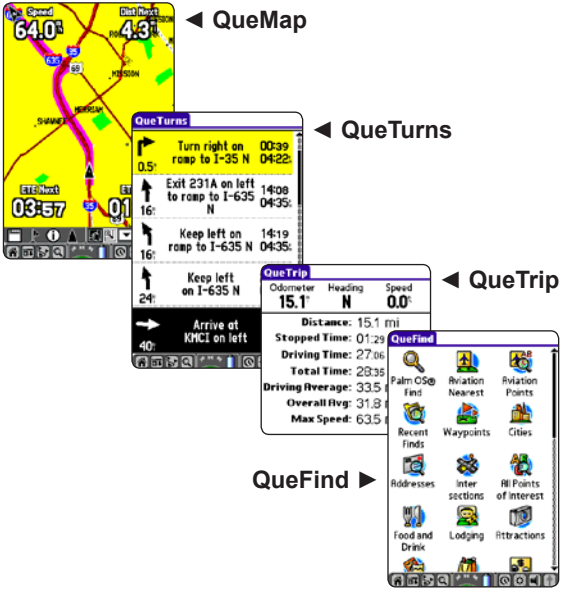
### To change modes manually:

1. From the Applications Launcher, tap **Prefs**.
2. Tap the ▼ pick list in the top corner and select **Usage Mode** from the list.
3. Tap the Navigation Mode ▼ pick list and select **Automotive** from the list. The iQue 3600a is now in Automotive Mode.

With QueMap open, tap the menu bar or the **Menu** icon. Tap **Switch Usage Mode** to quickly switch between Aviation Mode and Automotive Mode.

## Automotive Mode Sequence

The main applications in Automotive Mode are QueMap, QueTurns (if navigating), QueTrip, and QueFind. To scroll through these applications, press the **Que** button on the front of the iQue 3600a.



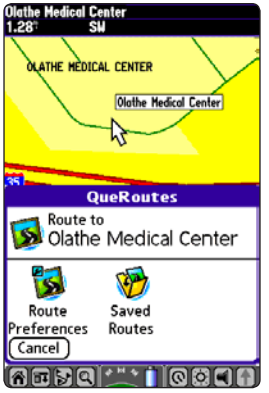
# Navigating to a Location

The easiest way to navigate to a location is to find the location on the map and route to it.

### To navigate to a map item:

1. Press the **Que** button to open QueMap.
2. Tap the pan icon if it is not already enabled.
3. Use the stylus to pan the map so that the location you want to navigate to is in view. Use the **Scroll** buttons to zoom in and out of the map, if necessary.
4. Tap the location with your stylus. The panning arrow appears where you tapped.
5. Tap the **QueRoutes** icon.
6. Tap the top section of QueRoutes (**Route to…**). The iQue 3600a automatically generates a turn-by-turn route for you to follow to the location.

You can also route to a point on the map using the options menu. After tapping the desired location on the map, tap the **Menu** icon. Tap **Que** and then tap **Route To**.




**Navigating to a Selected Location**

After you have selected a destination, the iQue 3600a begins calculating your route. The GPS status window displays the route calculation animation while the iQue 3600a calculates your route.

Follow the route by viewing your progress on QueMap. Your route is highlighted by a magenta line. Pan and zoom on the map using the icons located along the bottom of QueMap. For a description of these icons, refer to page 54.

# Finding an Item

QueFind allows you to easily search for waypoints and points of interest. QueFind contains several categories, some of which are only available if you have loaded optional MapSource or BlueChart data.

Use QueFind to find an item in the database, such as a restaurant, airport, or city, and then use that point as a destination. You can also view details about items, such as addresses and telephone numbers.

Palm OS® Find is a Palm OS® application for finding items within the Palm OS® (Operating System). Tap this to find an Address Book item, Date Book item, Memo, or To Do item.


**QueFind**

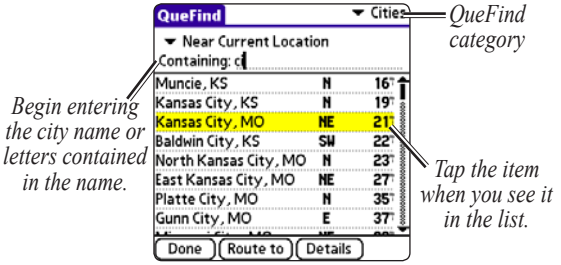
### To open the QueFind Application:

Do one of the following to open QueFind:

- Tap the **QueFind** icon.
- Tap the Home icon to open the Applications Launcher and select the **QueFind** icon.
- Press **NEAREST** on the Aviation Cradle.

### To find an item near your current location:

1. Tap the **QueFind** (magnifying glass) icon.
2. Tap the icon for the category you want to search, such as **Cities**.
3. Verify that ▼ **Near Current Location** is selected to search near your current location.
4. Use the Graffiti® 2 area to begin entering the name or letters contained in the name you are trying to find. The list begins to sort by the items containing the letters you enter.




**QueFind: Cities**

5. Tap the desired item from the list to highlight it.
6. To view the item's information page, tap **Details**. To create a turn-by-turn route and begin navigating to the location, tap **Route to**.

## Using the Find From Feature

The "find from" feature of QueFind allows you to search for items near a different location, such as your route destination.

### To find an item from another map location:

1. Tap the **QueFind** (magnifying glass) icon.
2. Tap the desired category icon, such as **Cities**.
3. Tap ▼ **Near Current Location** and select **Near Other**. A map page opens.
4. Tap the location from which you want to search.
5. Tap **Done**. QueFind reopens with the search list sorted to display items near the location you selected on the map.
6. Tap the desired item from the list to highlight it.
7. To view the item's information page, tap **Details**. To create a turn-by-turn route and begin navigating to the location, tap **Route to**.

You can also search for items **By Name**, **Near Route Destination**, and **Near Current Route**.

## Finding an Address

If you have detailed maps loaded, you can search for a specific address. Use the Graffiti® 2 area to type the City, Region (state), Number, Street, and Postal Code. You do not need to enter information in every field.

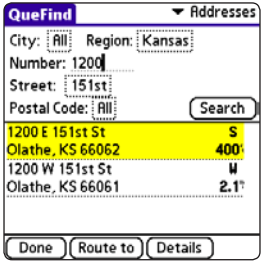
### To find an address:

1. From the QueFind application, tap the **Addresses** icon .
2. If you know the region (state or province), city, or postal code of the address, enter them now to limit the search results and the choice of street and city names.

   To enter the region, city, or postal code, tap the area to the right of the field (outlined in a dotted box); then tap an item in the list.

   To search all cities, regions, or postal codes, tap **Use All** at the bottom of the dialog box.
3. Using the Graffiti® 2 area, enter the desired street number in the **Number** field.
4. Tap the street field to display the Select Street Name dialog box. Use the Graffiti® 2 input area to enter the street name. When the desired name of the street is displayed, tap it.

   Tap the **Prefix/Suffix** button to display options for the street prefix and suffix. If there is no prefix or suffix to be added, select **None**. After you have made your selections, tap **OK** to return to the QueFind Addresses page.
5. Tap the **Search** button. Tap the desired entry from the displayed list. You can view **Details** for the item or **Route to** it.




**QueFind: Addresses**

## Finding an Intersection

If you have detailed maps loaded, you can search for an intersection. Finding an intersection is very similar to the way you find an address; instead of entering the house number, you enter a second street.

### To find an intersection:

1. From QueFind, tap the **Intersections** icon to display the Find Intersections page.
2. If you know the region, city, or postal code of the intersection, enter them. These will be used to limit the search results, as well as limit the choice of street and city names.
3. Tap the **Street1** field to display the Select Street Name dialog box. Use the Graffiti® 2 input area to enter the street name. When the name of the desired street is displayed, tap it.

   Tap the **Prefix/Suffix** button to select the remainder of the street name if applicable.
4. Repeat step 3 for **Street2**.
5. Tap **Search**. Tap the desired entry from the displayed list.

## Finding Points of Interest

If you have detailed maps loaded into your iQue 3600a you can search for Points of Interest. You can either search **All Points of Interest** or search a specific category, such as **Attractions** or **Lodging**.

### To find Points of Interest:

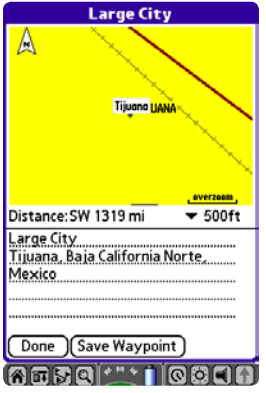
1. Tap the **QueFind** icon.
2. Tap the desired QueFind category.
3. Enter the name or part of the name in the Graffiti® 2 input area.
4. Highlight the item from the list.
5. Tap **Details** to display an information page showing a location map and detailed information about the item.
6. After you have viewed details about a Find item, that item is added to the Recently Found Places list to simplify the process for reviewing. To review an item, tap **Recent Finds** to display the list.

## Viewing Details for a Map Item

Each item listed in the QueFind results list has an information page that displays details about the item.

### To view details about an item:

1. Highlight the desired item in the results list, and then tap **Details**. A Details page appears.
2. Tap **Save Waypoint** to save this item as a waypoint. Depending on the type of item, additional options are available. Tap **Done** to close the window.




**City Details Page**

## QueFind Tips

Here are some helpful tips for finding an item:

- Most QueFind categories allow you to search for letter combinations contained in the name of the item. Be sure ▼ **By Name** is not selected as the search method and **Containing** is displayed instead of **Name**.
- To quickly change QueFind categories, tap the category ▼ pick list in the upper right corner. Select the category you want to search.
- Enter street names with only the body of the street name. For example, if the street portion of the address you are finding is “E Main St,” enter only “Main.” Then tap the **Prefix/Suffix** button to select “E Main St.”
- Some QueFind categories, such as **Lodging** and **Food & Drink**, allow you to narrow your search by selecting a type. For example, you can select **Barbecue** to have the unit search only for barbecue restaurants.

# Marking a Waypoint

Waypoints are locations or landmarks you store in your iQue 3600a. They can be checkpoints on a route or significant ground features.

You can add waypoints to routes and even create a route directly to the selected waypoint. Waypoints are automatically added to your Address Book when you create them.

While in QueMap, tap the spot on the map you want to save as a waypoint and then tap the flag icon . You can also save your current location as a waypoint.

### To mark your location as a waypoint:

1. Tap the position icon to re-center the map on your current position.
2. Tap the **Waypoint** flag icon at the bottom of the map. The New Waypoint dialog box is displayed with the waypoint automatically named.
3. To save the waypoint, tap **OK**.

### To mark a selected location as a waypoint:

1. Use the stylus to tap the location on QueMap you want to save as a waypoint.
2. Tap the **Waypoint** flag icon at the bottom of the map. The New Waypoint box is displayed with the waypoint automatically named.


*Saving a selected item as a waypoint.*

3. To save the waypoint with the default information, tap **OK**.

For information about editing waypoints, see page 57.

# Creating a Route

To begin a route all you really need is a destination. You can initiate a route from QueMap, QueRoutes, or QueFind. You can also use the Address Book and Date Book to start navigating to a point.

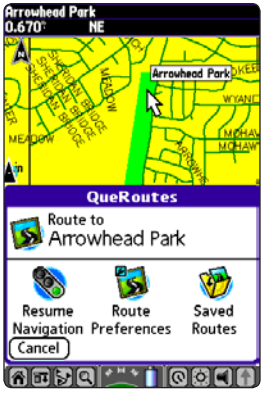
### To select a destination using QueFind:

1. Select an item from any of the QueFind application search categories. Refer to the "Finding an Item" section beginning on page 46 for detailed instructions.
2. Tap the **QueRoutes** icon to display the QueRoutes dialog box. Tap the **Route To…** item at the top of the dialog box. The name displayed depends on the item selected.

   Or, tap the **Route To** button at the bottom of the QueFind screen.

### To select a destination using QueMap:

1. Press the **Que** button to display QueMap.
2. Tap the location on the map that you want to use as a destination.
3. Tap the **QueRoutes** icon.




4. Tap the **Route To…** section at the top of the dialog box. The name displayed depends on the item selected. If there is no map feature selected, "Route to Point" is displayed.

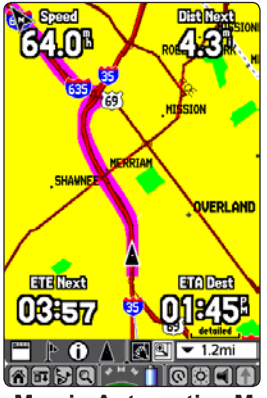
QueTurns displays each turn of your route in an easy-to-read list. When you are approaching a turn, the Turn Preview window automatically opens displaying the turn. For more information about following a route, refer to pages 53 through 56.

# Following Your Route

Once you have started navigating to a destination (started a following a route), the iQue 3600a provides several tools to help you follow the route.

## View Your Route on QueMap

QueMap displays a map of the area surrounding your current location. When you are following a route, QueMap shows your route as a magenta line.




**QueMap in Automotive Mode**

### *Understanding QueMap*

From QueMap, watch the black triangle that indicates your current location and direction of travel. As you move, the triangle moves with you, turning when you turn and stopping when you stop. As you travel to the edge of the display, the map moves (redraws) to constantly show your current location.

QueMap also displays detailed geographic information such as highways and roads, lakes and rivers, cities, and waypoints. Load detailed maps from MapSource to view more map items and Points of Interest.

There are two map orientation options: North Up and Track Up. North Up orients the map like a paper map, while Track Up orients the map in the direction of travel. When using “Track Up,” the North arrow indicates the map orientation.

### *Using the QueMap Icons*

With the stylus, tap the icons along the bottom of QueMap to perform special functions.

Tap the **Display Format** icon to toggle between the different layout options for the navigation data fields in QueMap.

Tap the **Waypoint Flag** to mark your current location or a selected location as a waypoint.

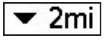
Tap the **Information** icon to display information about the selected location.

Tap the **Position** icon to center the map on your current location. In Aviation Mode, an airplane is the position icon; in Automotive Mode, it is a black triangle.

Tap the **Pan Map** icon to drag the map and mark map items with the stylus. The panning arrow  appears when you are in Pan Mode. Place the stylus on the map and drag it. The map moves with the stylus and shows the part of the map previously out of view. Lift the stylus to stop panning.

When the panning arrow is visible, the map does not move to keep your location visible. To exit the panning mode and view your current location on the map, tap the **Position** icon  .

Tap the **View Area** icon to quickly zoom into a specific area of the map. Touch the screen and drag the stylus to create a box around the area you would like to enlarge. Lift the stylus to zoom in.

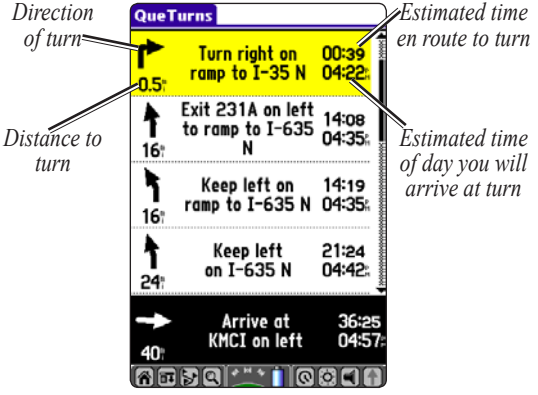



Tap the **Map Scale** icon to display the list of map scales. Tap the desired scale to display the map at that scale. You can also adjust the map scale by pressing the Up and Down **Scroll** buttons.

For additional information about QueMap, see the "Using Advanced QueMap Features" section beginning on page 28.

## Look for Upcoming Turns with QueTurns

QueTurns is an application that shows you a list of turn-by-turn directions to your destination. As you navigate a route, the list automatically updates to indicate the next turn at the top of the list. The application is active only when you are navigating a route.




**QueTurns**

### To use QueTurns:

1. While navigating a route in Automotive Mode, press the **Que** button repeatedly until QueTurns is displayed. Each turn you will take in the route is displayed.
   - Each turn entry provides a direction arrow showing the direction to turn and the distance to that turn as well as written instructions.
   - The time to the next turn is displayed at the top right of each turn entry and the time of day that you will reach that turn is displayed at the lower right of each turn.
2. Tap a turn on the list to display it on the Turn Preview page.

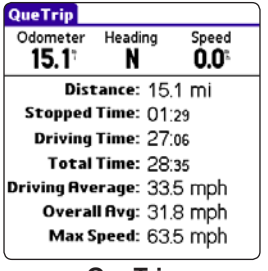
## Watch the Turn Preview Alerts

When you are approaching a turn in your route, a Turn Preview window opens. The window pops up while you are in any application in your iQue 3600a. Simply tap the screen to close the Turn Preview pop-up window and return to the active application.

## View Your Trip Data with QueTrip

QueTrip displays information about your trip, also called trip data. You can view the total distance traveled, the speed you are traveling, and other data pertaining to your trip. If you want the data to accurately reflect your trip, be sure to reset QueTrip before you start traveling.

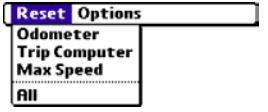
While in Automotive Mode, press the **Que** button repeatedly to display QueTrip.




**QueTrip**

### To reset QueTrip:

1. Press the **Que** button several times to display QueTrip.
2. Tap the **Menu** icon to display the four reset options: **Odometer**, **Trip Computer**, **Max Speed**, and **All**.




3. Tap the desired Reset option and tap **Yes** on the confirmation window. Tap **No** to stop the reset and retain the information.

# Advanced Automotive Operation

## Editing Waypoints

A waypoint is a location that you have saved, such as your home. Any QueFind location can be saved as a waypoint. In the iQue 3600a, a waypoint is stored as an Address Book entry with a set location. Waypoints are displayed in the Address Book with a flag icon. Only Address Book entries with set locations are displayed in the Waypoints list. Refer to page 62 for more information about setting locations to Address Book entries.

You can view waypoints using the Address Book or the **Waypoints** category in QueFind.

### To edit a waypoint from the Address Book:

1. Tap the **Home** icon until the **All** Applications Launcher is displayed. Tap the **Address Book** icon. Or, simply press the Address Book button on the front of the unit.
2. Your Address Book opens. Tap the desired waypoint from the list.
3. Tap **Edit** to display the Address Edit page.


**Address Edit Page**

4. Make changes as desired. Tap **Done** to save the changes and exit the Address Edit page.

### To edit a waypoint using QueFind:

1. Tap the **QueFind** icon to open QueFind.
2. Tap **Waypoints.** The Waypoints list opens.
3. Tap the desired waypoint and tap **Details**.
4. Tap **Edit Waypoint**. The Address View of the waypoint opens.
5. Tap **Edit** to display the Address Edit page.
6. Make changes as desired. Tap **Done** to save the changes and exit the Address Edit page.

### To edit a waypoint symbol:

1. From the Address Book, tap the waypoint you want to edit.
2. Tap the **Location** button to display the Address Location page.
3. Tap **Show Info**.


**Changing the Waypoint Symbol**

4. Tap the **Symbol** icon to display the Select Symbol window.
5. Tap a symbol to select it. The description of the symbol is displayed at the bottom of the screen. Tap the arrows at the bottom right to move between pages of symbols.
6. Tap **OK** to use the selected symbol. Tap **Done** to complete the change.

### To change the location of a waypoint:

1. From the Address Book, tap the waypoint you want to move.
2. Tap the **Location** button.
3. Tap **Show Info**.
4. Tap the **Location** field. Tap one of the following options on the pop-up window:
   - Tap **Find** to use QueFind to select a new location for the waypoint.
   - Tap **Manual** to enter new location coordinates. The “Legal Value” text indicates the range of numbers or letters that are allowed for each field of the current location format.
   - Tap **Map** to display a map. Tap the new location for the waypoint. Tap **Done**.
5. Tap **Done** to complete the change.

# Using QueRoutes

Use QueRoutes to activate a Saved Route, recalculate your route, edit your route, adjust the settings in Preferences, and stop and resume navigation.

### To open QueRoutes:

Use one of the following methods:

- Tap the **Home** icon to display the **Que** Applications Launcher. Tap **QueRoutes**.
- Tap the **QueRoutes** icon.

## Editing Your Route

QueRoutes allows you to edit your route by adding detours and via points.

### *Adding and Editing Stops (Via Points)*

You can add via points (points through which you would like to travel) to your route using **Edit Vias**.

### To add via points to your route:

1. While navigating your route, tap the **QueRoutes** icon.
2. Tap **Edit Vias**. The Edit Vias window opens.
3. Tap **Add via from Find** to open QueFind. Tap the category, the desired point, and then **OK**.

   Tap **Add via from Map** to open QueMap. Tap the location you want to add as a via point and tap **Done**.
4. Repeat steps 2 and 3 until you have added all of the via points that you want. Tap **Done** to recalculate the route with the new via points.

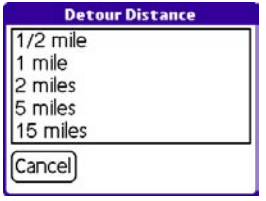

**Via Points Added to the Route**

### *Creating a Detour*

To avoid an area of traffic congestion or construction, use the **Detour** option. Creating a detour alters the current route for a specific distance. Detours are only active for the current route; to enter an area or road to avoid for all routes, create an **Avoidance**. See pages 78 through 79 for information.

#### To create a Detour:

1. Tap the **QueRoutes** icon .
2. Tap **Detour**.




3. Tap the distance to avoid in the current route. The iQue 3600a recalculates your route for the detour.

## Saving a Route

Once you have created a route to a destination and while it is still active, you can save the route to use at a later time.

#### To save a route:

1. While navigating a route, tap the **QueRoutes** icon .
2. Tap the **Saved Routes** icon to display the Saved Routes List.
3. Tap the **Save Active** button. A Save Active Route dialog box displays.
4. Rename the route if desired and then tap **OK** to save to the Saved Routes List.
5. To view details about any saved route on the list, tap the route name on the list to display the Saved Route Details dialog box.
6. Tap **OK** to close, **Activate** to begin navigation on that route, or **Delete** to remove it from the Saved Routes List.

## Navigating a Saved Route

### To navigate a route:

1. Tap the **QueRoutes** icon.
2. Tap **Saved Routes**.
3. Tap the route you want to follow.
4. From the Saved Route Details window, tap **Activate**. The iQue 3600a recalculates the route from your current location. If it does not automatically recalculate, tap **Recalculate**.

### *Saved Auto and Aviation Routes*

Routes that you have saved while in Automotive Mode have a small car icon. If you attempt to activate a Saved Automotive Route while in Aviation Mode, the iQue 3600a will switch into Automotive Mode and then navigate the automatically generated, turn-by-turn route.

If you are in Automotive Mode and attempt to follow an Aviation route, the iQue 3600a will ask if you want to follow this route on roads. If you tap **Yes**, the iQue 3600a automatically generates a turn-by-turn route to the destination.

## Stopping and Resuming Navigation

You can stop navigating a route at any time.

### To stop and resume route navigation:

1. Tap the **QueRoutes** icon.
2. Tap **Stop Navigation**.
3. Start navigating again by tapping the **Resume Navigation** icon from QueRoutes.

## Recalculating a Route

You can at any time, recalculate the route to the current destination. For example, if you have deviated from the original route you may want to recalculate.

### To recalculate a route:

1. Tap the **QueRoutes** icon.
2. Tap **Recalculate**.

While the iQue 3600a is calculating your route, the GPS status window displays the route calculation animation. Be patient as the unit calculates your route. When finished calculating, the iQue 3600a begins to navigate you to the destination and the GPS status window returns to display the GPS status.

# Using Address and Date Book Entries as Destinations

You can use an Address Book or Date Book entry as a route destination. The entry must have a location set to it before you can route to it.

## Attaching a Location to an Address/ Date Book Entry

You can attach locations to existing Address Book and Date Book entries. Once a location is attached to an entry, it is added to the Waypoints list. A flag next to an Address Book or Date Book entry indicates that a location has been attached to the entry.

### To set a location for an Address Book entry:

1. Tap the **Address Book** icon or button to launch the Address Book.
2. Then tap the desired item to display the Address View page.
3. From the Address View page, tap **Location** to display the Set Location options.
4. Select one of three methods to set the location:
   - Tap the **Find** button to use QueFind to find a location.
   - Tap the **Manual** button to enter new location coordinates.
   - Tap the **Map** button to display the Map page, which allows you to tap anywhere on the map and designate it as the location.

**NOTE:** *You can also attach a location for an Address Book entry using the Contact Location application in Palm™ Desktop. When your Address Book is open in Palm™ Desktop, open Contact Location by clicking the icon in the tool bar. Refer to the Contact Location Help File for instructions.*

### To set a location to a Date Book entry:

1. Tap the **Date Book** icon or button to launch the Date Book. Then tap the desired item.
2. Tap the menu bar or the **Menu** icon.
3. Tap **Que** and then **Attach Location**.
4. Find the location of the Date Book entry using QueFind. Tap **OK** to save this QueFind item as the Date Book entry's location.

## Going to an Address/Date Book Entry

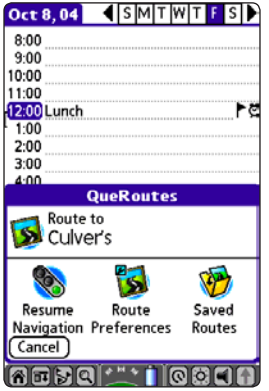
If you have attached a location to an Address or Date Book entry, that entry appears in the Waypoints list of QueFind. You can then find and route to the entry just as you would a standard waypoint. You can also generate a route through the Address or Date Book.

### To navigate to an Address Book entry:

1. Open the **Address Book**. Tap the desired Address Book entry.
2. Tap the **QueRoutes** icon. Tap the **Route To…** area at the top.


### To navigate to a Date Book entry:

1. Open the **Date Book**. Tap the desired Address Book record to display the Address View.
2. Tap the **QueRoutes** icon. Tap the **Route To…** area at the top.



# Additional Que Applications

This section describes additional Que Applications and features that are installed on your iQue 3600a.

## QueFlights

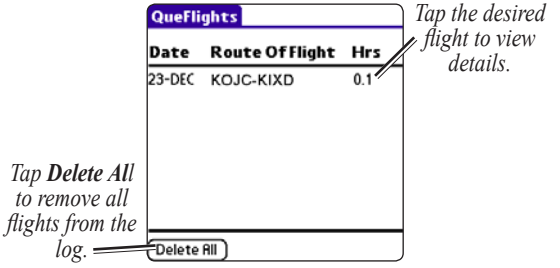
QueFlights displays a list of any recorded flights, including date, route of flight, and flight time. The iQue 3600a saves up to 50 recorded flights while in Aviation Mode.

Recording begins automatically when your speed exceeds 30 knots and you gain 500 feet of altitude. The **Route of Flight** field uses the nearest airport as the departure airport. The destination airport is continuously updated as your flight progresses.

If your groundspeed drops below 30 knots, the flight entry is saved and a new entry will be recorded when you depart the airport. A touch-and-go or brief stop of less than ten minutes will append to the current flight record, instead of starting a new entry.

### To view details for a flight:

1. Tap the **Home** icon to open the Applications Launcher.
2. Tap **QueFlights**.




**QueFlights**

3. Tap the desired flight to view Flight Details. When in the Aviation Cradle, use the **Rocker** key to highlight the desired flight and press **ENTER** to view Flight Details.
4. Tap **OK** to return to QueFlights. Tap **Delete** to delete that flight.

To delete all flights stored in QueFlights, tap **Delete All**. On the confirmation window, tap **OK** to complete the deletion. Tap **Cancel** to stop deleting the flights.

# QueGPS

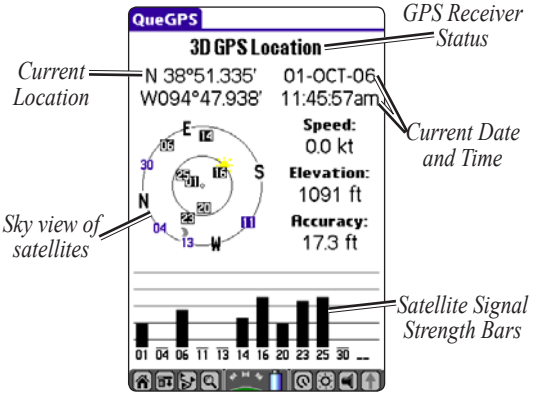
QueGPS is an information application that displays the current status of satellite reception by showing the location and numbers of the satellites in the sky overhead. A signal strength bar at the bottom of the page shows the signal strength of each satellite being received.

### To view QueGPS:

- Tap the **Home** icon to open the Applications Launcher. Tap **QueGPS**.
- Tap the status icon at the bottom of the screen.

## Satellite Status

A bar graph at the bottom of the page displays the strength of signals being received from each satellite. Each number represents the particular satellite that is being received. Numbers above 33 indicate WAAS satellites. When the satellite is being fully received, the bar above the corresponding number is solid. When information is still being gathered for that satellite, the bar is empty.




QueGPS

A sky view array in the center, left of the iQue 3600a screen represents the position of satellites in the sky overhead. Your position is represented by the center of the two circles. The outer circle represents the horizon while the inner circle a position 45° from the horizon. The numbers displayed indicate the number assigned to those satellites.

All of this information updates as you navigate.

## Establishing a New Location

The GPS receiver must be re-initialized (given an opportunity to determine its location) if you have moved more than 600 miles from your original location. To speed up this process, you can use the map to mark your approximate location.

### To establish a new location:

1. Open QueGPS.
2. Tap the menu bar or tap the **Menu** icon to open the options menu. Tap **New Location**.


**New Location Options Window**

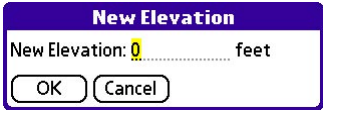
3. Select **Use Map**. Use the stylus to pan the map to your current general location and tap to place the arrow there.
4. Tap **Done** to continue the initialization.

## Entering a New Elevation

The GPS receiver can determine your approximate elevation, but it is not as accurate as your horizontal location. If you have a reliable alternate source for determining your elevation, you can enter your elevation in the New Elevation window, but only before the receiver determines your location.

### To enter a new elevation:

1. Open QueGPS.
2. Tap the menu bar or tap the **Menu** icon to open the options menu. Tap **New Elevation**.




**New Elevation Window**

3. Use the Graffiti® 2 input area to enter your elevation.
4. Tap **OK**.

# QueTracks

As you travel, the iQue 3600a creates a Track Log, which is like a "bread crumb" trail. Use the QueTracks application to save or clear the Track Log.

### To save the track log:

1. Tap the **Home** icon.
2. Tap the **QueTracks** icon.
3. Tap **Save**.

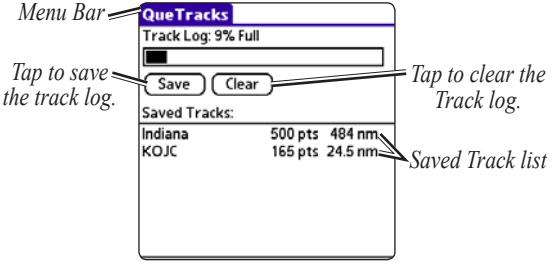

**Saving a Track**

4. Enter a new name for the track, if desired.
5. To save only part of the track log, select the start and end points and tap **OK**.
6. To save the whole track, tap **Entire Log**.

The newly saved track appears in the Saved Tracks list.

### To use QueTracks:

1. Tap the **Home** icon to display the Applications Launcher.
2. Tap **QueTracks**. QueTracks, shown below, opens. The Track Log capacity bar graph indicates the amount of Track Log used and the percent used is displayed above the bar.




**QueTracks**

3. To clear the Track Log, tap the **Clear** button.
4. To view details of a Saved Track, tap the track in the Saved Track List.

## Viewing Saved Track Details

Tap the **QueTracks** icon to display QueTracks. Tap the desired track in the Saved Tracks list to display the Saved Track Details page.


**Saved Track Details**

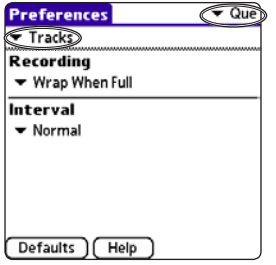
- To rename any track, tap the name at the top of the Saved Track Details page and then use the Graffiti® 2 input area to enter a new name.
- To assign a new color to the track when it is displayed on a map, tap the **Color** name at the top of the page. Tap the desired color from the list to select and close the list.
- If the **Show On Map** option is checked, the saved track is displayed on the map.

## Setting QueTracks Preferences

You may set QueTracks preferences to adjust how the track log wraps when recording and the interval at which a track point is created.

### To view the QueTracks Preferences:

1. Tap **Home** icon.
2. Tap **Prefs**.
3. Tap the ▼ in the upper right corner of the screen and select **Que**.
4. Tap the ▼ on the left side of the screen and select **Tracks**.




**Tracks Preferences**

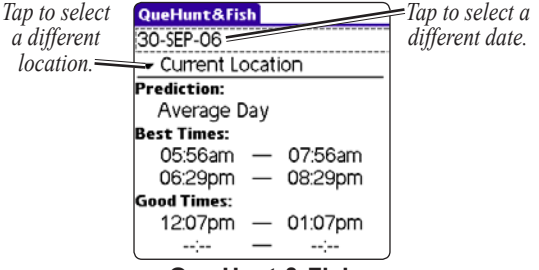
5. Change the preferences as desired.

# QueHunt & Fish

Use QueHunt & Fish to determine where and when hunting and fishing opportunities are likely to produce the best results.

### To view hunting and fishing information:

1. Tap the **Home** icon to open the Applications Launcher.
2. Tap **QueHunt & Fish** to view hunting and fishing information for your current location and date.




**Que Hunt & Fish**

The day's **Prediction**, **Best Times**, and **Good Times** are displayed.

### To change the date or location:

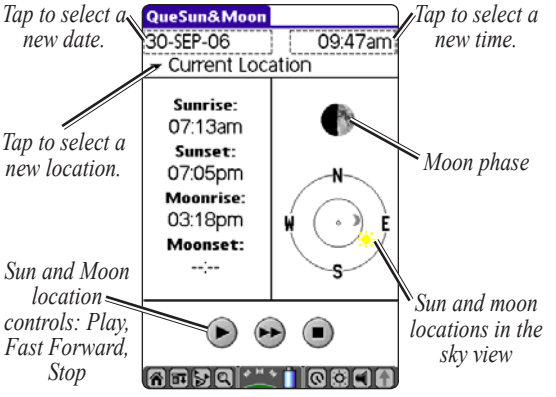
- To view information for a different date, tap the date and select the date from the calendar.
- To view the hunting and fishing times for another location, tap ▼ **Current Location**. You can find the location using the map or QueFind.

# QueSun & Moon

The QueSun & Moon application displays information about the sun and moon for any location, date, and time.

### To view the sun and moon information:

1. Tap the **Home** icon to open the Applications Launcher.
2. Tap **QueSun & Moon** to view sun rise/set and moon rise/set information for your current location and date.
3. The moon phase as well as locations of the sun and moon are displayed. Use the controls to view animation of the sun and moon positions.




**QueSun & Moon**

### To use the Current Date and Time:

1. Tap the **Menu** icon (or menu bar).
2. Tap **Use Current Date and Time**.

# QueAudio

QueAudio plays MP3 and WAV format files stored on the SD/MMC card. Use the headphone jack to listen to your music in privacy.

## Storing and Playing Files with QueAudio

The number of audio files that can be stored on the SD/MMC card depends on the amount of space available on the card.

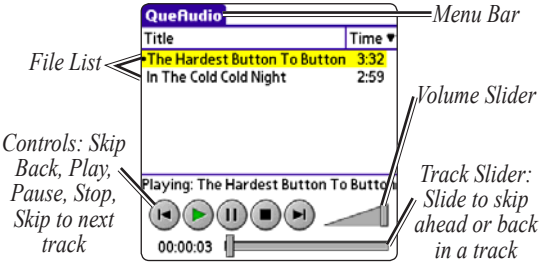
### To store files for use with QueAudio:

1. Access and copy MP3 or WAV format files to your PC. Save them to a folder or place them on your desktop.
2. Open the Palm™ Desktop application on your PC and click the **Install** icon to display the Install Tool dialog window.
3. Drag and drop files from your PC into the Install Tool window, or click **Add** and select the audio files.
4. Click **Done**. The files will be added to your iQue SD/MMC card the next time you perform a HotSync® operation.

### To play files using QueAudio:

1. Open QueAudio and tap the title of the file you want to play.
2. Tap the **Play** button on the control panel.

You may also select files by rotating the **Thumb Wheel** Up or Down and pressing In to toggle between play and pause.




QueAudio

## Customizing QueAudio

- To listen to a particular section of a file track, use the stylus to drag the Track Slider to select a desired portion of the track.
- If using headphones, use the Bass Boost adjustment in the Master Volume Control to improve the sound quality.

### To change the order of files in the list:

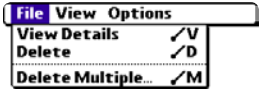
- Tap the column title, such as **Title** or **Time**, to change the sorting order.
- To shuffle the files, tap the column title until no arrow is displayed.
- To shuffle the files, tap the menu bar. Tap **Options** and then **Shuffle**.

### To view details about selected files:

1. Highlight the desired file from the list on the QueAudio page.
2. Tap the menu bar at the top of the page.
3. Tap **File**, and then tap **View Details** to display the details page for the highlighted file.

### To delete a file:

1. Highlight the desired file from the list on the QueAudio page.
2. Tap the menu bar at the top of the page.




**QueAudio Menus**

3. Tap **File,** then tap **Delete** to remove the highlighted file from the SD/MMC card, or tap **Delete Multiple** to remove several selected files from the card.

### To determine how files are displayed on the QueAudio page:

1. Tap the menu bar to display the menu.
2. Tap **View** to display the various ways to display files. Then tap your choice.

# QueVoice

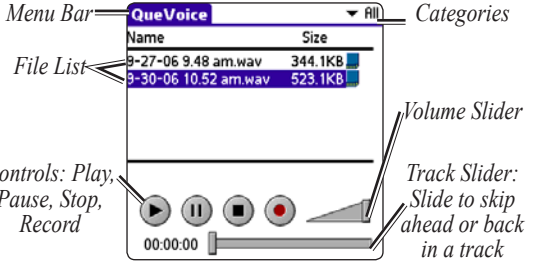
QueVoice allows you to record and store voice files to use as reminders, notes, or messages. You can also attach a location to a voice file. Import and export WAV format voice files by beaming or performing a HotSync® operation.

## Recording and Playing Files

Store voice files on the handheld or an SD/MMC card, if present.

### To record a voice file:

1. Tap the **Home** icon to open the Applications Launcher.
2. Tap **QueVoice**.
3. Press and hold the **REC** button until you hear tones sound, or tap the **Record** icon. QueVoice is now recording. Speak into the microphone hole on the front of the iQue 3600a.
4. While recording, briefly press the **REC** button, or tap the **Pause** icon, to pause. Tap again to resume recording.
5. To stop recording, press and hold the **REC** button until you hear tones sound, or tap the **Stop** icon in QueVoice.
6. The newly recorded voice file is highlighted in the list of files. The file name is the date and time the recording was started.




QueVoice

### To play a voice file:

1. Tap the file name to highlight it.
2. Tap the **Play** icon.

## Attaching a Location to a Voice File

You can attach a geographic location to a voice file to give it special significance, such as voice notes about a meeting location.

### To attach a location:

1. Highlight the voice file you want to attach a location to.
2. Tap the **QueVoice** menu and tap **Que**.
3. To attach a location to a file, tap **Attach Location**. The QueFind application opens. Select a location using QueFind and tap **OK** when done. The QueVoice file list now shows a marker flag to the right. Tap the flag to display the location page.
4. If you have already attached a location to a voice file and attempt to attach another location, an "Overwrite Location" prompt displays. Tap **OK** to attach the new location or **Cancel** to keep the current location.
5. To remove a location from the selected file, tap **Remove Location** and then tap **OK**.

## Importing and Exporting QueVoice Files

You can import and export WAV voice files using the beaming feature or a HotSync® operation. If a location is attached to a QueVoice file, the iQue 3600a sends the location as well. The iQue 3600a only imports QueVoice files to the QueVoice application; use QueAudio to listen to all other WAV files on the SD/MMC card. For instructions on beaming files, refer to the *Operating Instructions* located on the Setup CD.

### To import files using Palm™ Desktop:

1. Copy WAV format files to your PC. Save them to a folder or place them on your desktop.
2. Open the Palm™ Desktop application on your PC and click the **Install** icon to display the Install Tool dialog window.
3. Drag and drop files from your PC into the Install Tool window or click **Add** and select the voice files.
4. Click **Done**. The files will be added to your iQue SD/MMC card the next time you perform a HotSync® operation.

# Customizing the Que Applications

You will make most adjustments to your iQue 3600a using the **Que** Preferences. Tap the **Help** buttons to access additional information about the settings on each Preferences page. You can also adjust certain settings in the handheld, such as changing from statute to metric units. Customize your unit using **Preferences** (**Prefs**).

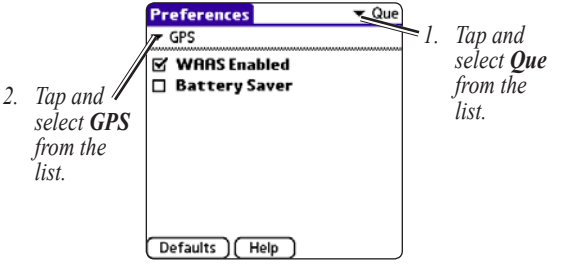
### To open Que Preferences:

1. Tap the **Home** icon to display the **All** or **System** Applications Launcher screen.
2. Tap the **Prefs** icon.
3. Tap the ▼ pick list in the top right corner and select **Que** from the list.

## Changing the GPS Settings

Enable and disable WAAS and Battery Saver Mode through the GPS Preferences. You cannot turn on WAAS and Battery Saver modes at the same time.

### To enable WAAS or Battery Saver Mode:




1. Open QueGPS.
2. Tap the **Menu** icon and tap **Preferences**.
3. Tap **WAAS Enabled** to enable the Wide Area Augmentation System operating mode. See the page 89 for more information about WAAS.
4. Tap **Battery Saver** to conserve battery power by decreasing the frequency at which the GPS receiver updates your position data. There is a slight loss in position accuracy when on.

To conserve the most battery power, lower the backlight level. Tap to adjust the backlight.

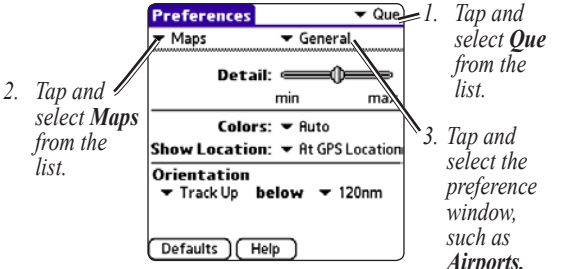
# Customizing QueMap

As you become more familiar with its operation, you may want to customize QueMap to fit your needs. You can change the map detail displayed, set the color scheme to day or night, change how your location is displayed, and change the map orientation.

To access QueMap Preferences, tap the **Menu** icon when QueMap is open. Then tap **Preferences**.

### To change QueMap Preferences:

1. Open Que Preferences.
2. Tap the ▼ pick list in the left corner and select **Maps** from the list.
3. To open a different QueMap Preferences page, such as the **Airport** Preferences, tap ▼ and select a different settings page from the list.




**General Maps Preferences**

Each preference page provides a **Help** button. Tap **Help** to learn about the settings in detail.

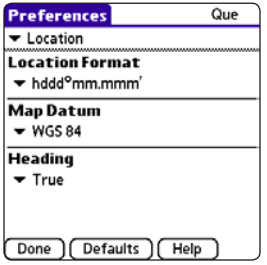
Using QueMap Prefs, you can display selected detailed maps stored in the iQue or on a Secure Digital (SD) or Multimedia Card (MMC).

## Location Format and Map Datum

You can change the location format and map datum to match those on paper maps that you plan to use in conjunction with GPS navigation. Detailed information about how to use formats and datums can be found in the Appendix of this guide.

### To change the Location preferences:

1. Open QueMap and tap the **Menu** icon.
2. Tap **Preferences** to open Que Preferences.
3. Tap ▼ **Maps** and select **Location** from the list.




**Location Preferences**

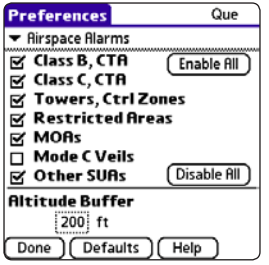
4. Change the settings as necessary.

## Setting Airspace Alarms

You can enable or disable alerts that notify you when you enter various types of airspaces. If the alert is enabled, an alert will pop up while you are in any application in the iQue 3600a.

### To change the airspace alarm settings:

1. Open QueMap and tap the **Menu** icon.
2. Tap **Preferences** to open Que Preferences.
3. Tap ▼ **Maps** and select **Airspace Alarms**.
4. Change the settings as necessary.




**Airspace Alarms Preferences**

# Changing Routing and Guidance Settings

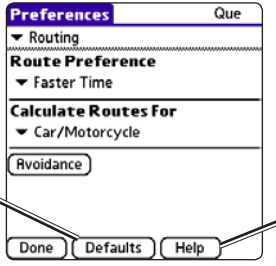
The Routing and Guidance Preferences control how routes are calculated and how you are prompted.

## Customizing Route Calculations

The Routing Preferences allow you to set how the iQue 3600a generates your Automotive routes.

### To set routing preferences:

1. While in Automotive Mode, tap the **QueRoutes** icon.
2. Tap **Route Preferences**.




*Tap **Defaults** to return to the original factory settings.*

*Tap **Help** to view information about the settings.*

3. Make changes to the settings as necessary.

### *Entering Areas to Avoid in Your Routes*

Entering an Avoidance area or item sets the iQue 3600a to create a route that does not include the items or area you enter. An Avoidance stays in the unit's memory until you remove it or it expires. All routes and navigation reflect the Avoidance. The Detour option only alters the current route.

### To avoid an item, area, or road:

1. Tap the **QueRoutes** icon.
2. Tap **Route Preferences**.
3. Tap the **Avoidance** button.
4. Tap the boxes to avoid certain items, such as **U-Turns** and **Highways**.
5. Tap **Add Road** to specify a road to avoid.
   - Pan to the road you want to avoid. Tap the starting location and then tap the push pin icon to place the push pin.
   - Tap the ending location. Tap **Done**.
   - Rename the avoidance and enter an expiration date, if desired. Tap **Done**.

6. Tap **Add Area** to specify an area to avoid.
   - Pan to the area you want to avoid and tap the selection icon.
   - Drag the stylus to outline the area you want to avoid. Tap **Done**.
   - Rename the avoidance and enter an expiration date, if desired. Tap **Done**.

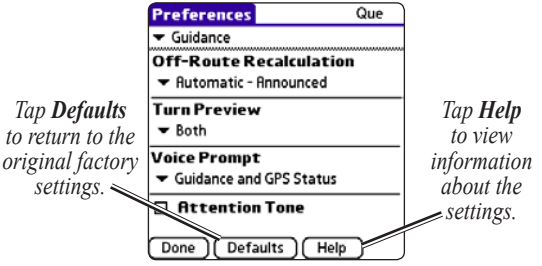

When generating routes, the iQue 3600a will avoid the areas and items you selected.

## Customizing Route Guidance

Customize the **Off-Route Recalculation**, **Turn Preview**, **Voice Prompt**, and **Attention Tone**.

### To set guidance preferences:

1. While in Automotive Mode, tap the **QueRoutes** icon.
2. Tap **Route Preferences**.
3. Tap ▼ **Routing** and tap **Guidance**.




4. Make changes as necessary.

### To adjust voice prompt volume:

1. Tap the **Volume** icon to open the Volume Control page.
2. Adjust the **Guidance** volume slider to a level appropriate for the noise environment.
3. Tap **OK** when finished.

# Customizing Your iQue 3600a

You may want to change the way units of measure and the time and date are displayed.

## Changing the Measurement Units

If you live outside the United States, you may want to change the measurement units to **Metric**.

### To customize the Units setting:

1. Open Que Preferences.
2. Tap the ▼ on the left under the Preferences menu bar and tap **Units** from the list.
3. Select the desired units for each measurement.

## Adjusting the Backlight and LED Brightness

Tap the **Brightness** icon to open the brightness adjustment slider for the backlighting and power LED. When connected to external power, the power LED has two brightness settings: Bright and dim.

Move the slider to the Left to lower the brightness and to the Right to raise it.

## Setting the Date and Time

If you are receiving satellite signals, your date and time will be set automatically. You may need to adjust the time zone and enable Daylight Saving Time.

### To set the date and time:

1. From the Applications Launcher screen, tap the **Prefs** icon.
2. Tap the ▼ pick list in the upper right corner and tap **Date & Time**.


3. Select the proper date from the calendar.
4. Select your time zone, and then enter the proper date and time. Enable or disable Daylight Saving.

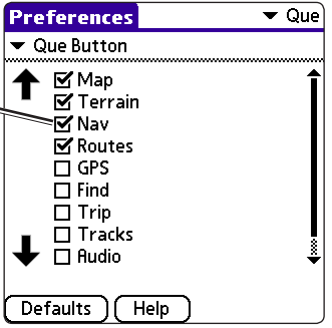
## Customizing the Buttons

You can change the buttons on your iQue 3600a to open different applications.

### To assign applications to the Que button:

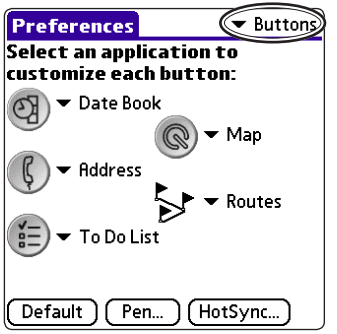
1. Open Que Preferences.
2. Tap the ▼ pick list on the left below the Preferences title block and tap **Que Button**.
3. Tap to place a check in the boxes for the Que Applications you desire to cycle through. Use the arrows to change the order of the Que Applications. The application at the top displays first.

*Place a check mark in the box to add the application to the Que button sequence.*




### To change what application each button opens:

1. Tap the **Home** icon.
2. Tap the **Prefs** icon.
3. Tap the ▼ pick list in the upper right corner and select **Buttons** from the list.




4. Tap the ▼ next to the image of the button you want to change. Tap the **QueRoutes** icon to change what application the icon opens.
5. Tap the desired application from the list.

## Customizing the Application Screens

The layout of QueMap, QueNav, and QueTerrain can be customized to suit your needs. You can also change to data fields to display different types of information.

### To change the layout of QueMap, QueTerrain, and QueNav:

1. Open QueMap, QueTerrain, or QueNav.
2. Tap the **Menu** icon.
3. Tap **Layout**.
4. Tap the desired layout from the list.

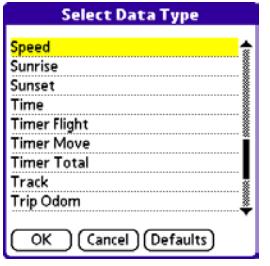
### To change the layout of QueMap:

1. Open QueMap.
2. Tap the display icon. The layout of the screen changes each time you tap the icon.

***NOTE:*** *You must first change the layout of QueTerrain before you can change the data fields.*

### To change a data field:

1. Open QueMap, QueNav, or QueTerrain.
2. Tap the **Menu** icon.
3. Tap **Change Data Fields**.
4. Tap the data field you want to change. Tap it again to display the list of data field options. For an explanation of each option, refer to page 92 of the Appendix.




5. Use the scroll bar to view all of the options. Tap the data type you want to display.
6. Tap **OK**. Tap the middle of the screen to quit changing the data fields.

To return the fields to the defaults, tap **Defaults**. Refer to the following page for more information.

# Restoring the Original Settings

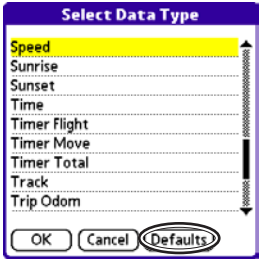
If you have changed some settings, but would like to return to the original settings, you can restore the factory defaults.

### To restore Que Preferences settings:

1. Tap the **Home** icon to display the **All** or **System** Applications Launcher screen.
2. Tap the **Prefs** icon.
3. Tap the ▼ pick list in the upper right corner and select **Que** from the list. Open a specific Que Preferences page, if desired.
4. Tap the **Defaults** button.
5. To restore only the current page's settings, tap **OK**. To restore all Que Preferences to their original settings, tap **Restore All**.

### To restore the data field settings:

1. Open the page (QueMap, QueNav, or QueTerrain) that you want to restore the data fields.
2. Tap the **Menu** icon.
3. Tap **Change Data Fields**.
4. Tap the data field you want to restore. Tap it again to display the list of data field options.




5. Tap the on-screen **Defaults** button.
6. In the pop-up window, tap **OK** to restore the selected data field to its default settings. Tap **Restore All** to return all of the data fields on this page to their original settings.

# APPENDIX

## Physical Specifications

| | |
|---|---|
| Size: | 2.8” W x 5” H x 8” D (72.1 x 127 x 20.3 mm) |
| Weight: | Unit: 5.703 oz (161.7 g)<br>With Stylus: 6.144 oz (174.2 g) |
| Display: | 320 x 480 pixels, 16-bit color display and white LED backlight |
| Operating range: | 32°F to 122°F (0°C to 50°C) |

## Power Specifications

Power Source: Rechargeable lithium-ion battery

Approximate Battery Life:

- 4 weeks standby time.
- 9 hours of continuous operation with the backlight set at 1%.
- 5 hours of continuous operation with the backlight set at 50%.
- 3 hours of continuous operation with the backlight set at 100%.

Battery life varies depending upon temperature, programs installed, and individual use patterns.

## Performance Specifications

| | |
|---|---|
| Receiver: | 12 parallel channel GPS receiver continuously tracks and uses up to 12 satellites to compute and update your position |
| Acquisition Times: | Approx. 15 seconds (warm start)<br>Approx. 45 seconds (cold start)<br>Approx. 5 minutes (First Time/ AutoLocate™) |
| Update Rate: | 1/second, continuous |

### *Accuracy*

| | |
|---|---|
| GPS: | 15 meters (49 feet) RMS 95% typical |
| DGPS (WAAS): | < 3 meters (10 ft) 95% typical with DGPS corrections |
| Interfaces: | USB, infrared, RS232 |
| Antenna: | Flip-up adjustable GPS Antenna |

## Internal System Specifications

| | |
|---|---|
| Operating System: | Palm OS® 5.2.1 |
| Embedded Capabilities: | GPS receiver, infrared communication, enhanced battery monitor, vibrating alarm, MP3 player, and voice recorder |
| Audio hardware: | Microphone, Speaker, and Headphone jack |
| Processor: | 200 MHz Dragonball MXL ARM9 |
| Internal memory: | 64 MB SDRAM |
| Expandable memory: | SD/MMC |

## Notes about Battery Life

Turning the brightness up and/or keeping the backlight "on" reduces battery life. To increase the battery life, keep the backlight off.

Set the iQue 3600a to turn off automatically after 30 seconds of inactivity to increase the battery life. This adjustment is made in the **General Preferences**.

When the iQue 3600a times out (Auto-Off) with the antenna open, the battery will slowly drain. (When the unit is in Auto-Off mode with the antenna open, the power LED flashes.) Be sure to shut the antenna before your unit enters the Auto-off mode to get the most battery life.

If your iQue 3600a is playing a voice file or an MP3 file and enters Auto-Off mode, the battery will slowly drain when the recording or song is over. Be sure to turn off your iQue 3600a after playing a voice file or MP3 file.

# Optional Accessories

In addition to the standard accessories included, the optional accessories are designed to enhance the operation of the iQue 3600a.

To obtain replacement parts and optional accessories, contact your Garmin Dealer, Garmin Product Support in the U.S.A. at 800/800.1020, or Garmin Europe at 44/0870.8501241.

***WARNING:** Garmin accessories have been designed and specifically tested for use with Garmin products. Accessories offered for sale by other manufacturers have not been tested or approved for use with Garmin products. Use of such accessories could cause damage to the iQue 3600a and void the warranty.*

**Auto Navigation Kit**—provides the needed parts and detailed maps to use the iQue 3600a in an automobile.

**Yoke Mount Kit**—provides the necessary parts to mount your iQue 3600a on a second yoke.

**Travel Kit**—includes an A/C travel charger, Sync cable, international plug adapters, and carry pouch.

**Vehicle Suction Mount**—includes a suction cup mount and a 12-Volt charger and speaker system.

**Serial HotSync® Cradle**

**USB/Serial Sync Cable**

**A/C Travel Charger**

**12-Volt Power/Charging Adapter**—allows the unit to operate from a vehicle's power system through the cigarette lighter adapter.

**Stylus**

**Leather Case**

**GA 27C Antenna**—Garmin remote antenna.

**Non-Skid Friction Mount**—portable vehicle mount, no installation required.

**Permanent and Temporary Adhesive Disks**—adhesive disks for using the unit in a vehicle.

**MapSource Software CD-ROMs**—offers several detailed mapping options that are compatible with the iQue 3600a, such as City Select.

# Care Information

The iQue 3600a is constructed of high quality materials and does not require user maintenance other than cleaning. The Garmin iQue 3600a has no user-serviceable parts. Should you ever encounter a problem with your unit, please take it to an authorized Garmin dealer for repairs.

The iQue 3600a is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way voids your warranty and may result in permanent damage to the equipment. The iQue 3600a is not water-resistant and should not be immersed in water. Immersion in water voids your warranty.

To resolve problems that cannot be remedied using this guide, contact Garmin Product Support in the U.S.A. at 800/800.1020 (913/397.8200) or Garmin Europe at 44/0870.8501241.

## Cleaning the Unit

Clean the unit using a cloth dampened with a mild detergent solution and then wipe dry. Avoid chemical cleaners and solvents that may damage plastic components.

## Storing the iQue 3600a

Do not store the iQue 3600a where prolonged exposure to temperature extremes may occur (such as in the trunk of a car) as permanent damage may result. It is always a good practice to back up important data by performing a HotSync® operation.

# Learning about GPS

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of 24 satellites placed into orbit by the United States Department of Defense.

GPS was originally intended for military applications, but in the 1980s, the government made the system available for civilian use. GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no subscription fees or setup charges to use GPS. For more information refer to the Garmin Web site at www.garmin.com and also read the *GPS Guide for Beginners*, which can be found on the Web site at http://www.garmin.com/aboutGPS/manual.html.

## Common GPS Terms

**Initialize**—the first time a GPS receiver orients itself to its current location and collects data. After the receiver is initialized, it remembers its location and acquires a position more quickly.

**Position**—an exact, unique location based on geographic coordinates (Latitude and Longitude).

**Route**—a group of waypoints entered into the GPS receiver in the sequence you desire to navigate them.

**Waypoint**—a location you store in your GPS. It may be a checkpoint on a route or a significant ground feature, such as your campsite or favorite fishing spot.

## What is Differential GPS (DGPS)?

The United States and Canadian governments (among others) have set up Differential GPS (DGPS) stations to transmit correction signals. They are operational in coastal areas and on many navigable river systems.

The DGPS system is available for use without a fee, but you do need additional equipment to receive DGPS signals; a beacon receiver compatible with the RTCM format sentences supported by your Garmin GPS is needed to use DGPS.

Refer to the United States Coast Guard's Web site (http://www.navcen.uscg.gov/) for locations and status of the differential stations.

## What is WAAS?

The Wide Area Augmentation System (WAAS) is an FAA-funded project to improve the overall integrity of the GPS signal and increase position accuracy for users in North America.

The system is made up of satellites and approximately twenty-five ground reference stations positioned across the United States that monitor GPS satellite data. Two master stations, located on either coast, collect data from the reference stations and create a GPS data correction message.

According to the FAA's Web site, testing in September 2002 of WAAS confirmed an accuracy performance of 1–2 meters horizontal and 2–3 meters vertical throughout the majority of the continental United States and portions of Alaska.

WAAS is just one service provider that adheres to the MOPS (Minimum Operational Performance Standard) for global Satellite Based Augmentation Systems (SBAS). Eventually, there will be several services of worldwide geostationary communication satellites and ground reference stations.

All SBAS systems use the same receiver frequency. Therefore, any operational SBAS system should be capable of providing your GPS unit with increased accuracy at any location in the world.

Currently, enabling WAAS on your Garmin iQue 3600a in regions that are not supported by ground stations may not improve accuracy, even when receiving signals from an SBAS satellite. In fact it can degrade the accuracy to less than that provided by GPS satellites alone. For this reason, when you enable WAAS on your Garmin GPS receiver, the receiver automatically uses the method that achieves the best accuracy. To enable WAAS, refer to page 75.

For more information, go to http://gps.faa.gov/Programs/WAAS/waas.htm.

# Map Datums and Location Formats

Generally speaking, the default **Map Datum** and **Location Format** suit most users' needs.

## What is a Map Datum and which one should I use?

A datum is a mathematical model of the Earth that approximates the shape of the Earth and enables calculations to be carried out in a consistent and accurate manner. The datum is physically represented by a framework of ground monuments (such as trig. stations) whose positions have been accurately measured and calculated on this reference surface. Lines of latitude and longitude on a map or chart are referenced to a specific map datum.

Find the map datum reference on the paper chart you are using. Set the **Map Datum** to match the map datum used by your chart.

## What is a Location Format and which one should I use?

Your current location can be viewed on the GPS in the form of coordinates. Since different maps and charts use different location formats, Garmin GPS units allow you to choose the correct coordinate system for the type of map you are using. The most common format is latitude and longitude, which is utilized by all Garmin units.

You may change the location format to use with other coordinate systems in **Location Preferences**. UTM/UPS (Universal Transverse Mercator/Universal Polar Stereographic) are easy-to-use metric grids that are found on most USGS topographic quadrangle maps. You can select several other grids, including a user-definable grid (for the advanced user).

## Jeppesen Database Information

The iQue 3600a includes an internal Jeppesen® database, which includes the following information:

**Airport***—identifier, facility name, city/state/country, latitude/longitude, field elevation, available fuel types, runway designations/layout, runway surface, runway length, runway width, runway lighting, communication frequencies, and published approaches.

**Weather**—associated with an airport (ASOS, ATIS, and AWOS).

**VORs***—identifier, facility name, city/state/country, position, frequency, service volume, and type (such as VOR-DME, TACAN, and VORTAC).

**NDBs***—identifier, facility name, city/state/country, position, and frequency.

**Intersections**—identifier, nearest VOR, radial and distance from nearest VOR, position, and region/country.

**ARTCC**—Air Route Traffic Control Centers.

**Airspace**—boundaries (Class B, Class C, Control Zones, SUAs, and MOAs), controlling agency, and vertical boundaries.

**FSS**—Flight Service Stations.

* Symbology used for airports, VORs, and NDBs are consistent with those used on a sectional chart.

# Data Field Options

**Accuracy**—estimated position accuracy in feet or meters.

**Altitude**—height above mean sea level (MSL).

**Avg Spd Move (Average Speed while Moving)**—average speed while moving since last reset of the trip computer.

**Avg Spd Total (Average Speed Total)**—average speed of unit for both moving and stopped speeds since last reset of the trip computer.

**Bearing**—the direction from your current location to a destination.

**Course**—the direction from your starting location to a destination.

**Cross Track**—the distance you are off a desired course in either direction, left or right.

**Crs (Course) to Steer**—the recommended direction to steer in order to reduce cross-track error and return to the course line.

**Dist Dest (Distance to Destination)**—the distance from current location to a Go To destination, or the final waypoint in a route.

**Dist Next (Distance to Next Waypoint)**—the distance from current location to a Go To destination, or the next waypoint in a route.

**ETA Dest (Estimated Time of Arrival at Destination)**—the estimated time you will reach a Go To destination, or the final waypoint in a route.

**ETA Next (Estimated Time of Arrival at Next Waypoint)**—the estimated time you will reach a Go To destination, or the next waypoint in a route.

**ETE Dest (Estimated Time Enroute to Destination)**—the estimated time required to reach a Go To destination, or the final waypoint in a route.

**ETE Next (Estimated Time Enroute to Next Waypoint)**—the estimated time required to reach a Go To destination, or the next waypoint in a route.

**ETE VNAV (Estimated Time Enroute to VNAV)**—the estimated time required to reach the initial descent point in a VNAV profile.

**Glide Ratio**—the ratio of horizontal distance travelled to vertical distance travelled. For example, a 6:1 glide ratio indicates a 1000 feet vertical descent for every 6000 feet horizontal distance travelled.

**Glide to Target**—the glide ratio required to descend from present position and altitude to the target altitude at the location specified on the VNAV screen.

**Location**—your current position displayed in the selected location format.

**Max Speed**—the maximum speed the unit has moved.

**Pointer**—displays an arrow that points toward a Go To destination or the next waypoint on the route.

**Speed**—displays rate of travel in miles/kilometers/nautical miles per hour.

**Sunrise**—the time at which the sun rises on this day.

**Sunset**—the time at which the sun sets on this day.

**Time**—the time for the selected time zone.

**Timer Flight**—the length of time for the current flight.

**Timer Move**—time the unit has been moving since last reset of the trip timers.

**Timer Total**—total time the unit has been in operation since last reset of the trip timers.

**Track**—the direction of movement relative to a ground position. Also referred to as ground track.

**Trip Odometer**—the total distance traveled since the trip odometer was reset.

**Turn**—the angle difference (in degrees) between the bearing to your destination and your current line of travel. L means turn Left. R means turn Right.

**Vel (Velocity) Made Good**—the speed at which you are closing on a destination along a desired course.

**Vert (Vertical) Speed**—the rate of climb or descent.

**VS (Vertical Speed) To Target**—speed at which you are descending or ascending to the target altitude.

**Wpt (Waypoint) Destination**—the final waypoint in the route, or the destination waypoint.

**Wpt (Waypoint) Next**—the next waypoint in the route.

# Messages

**Approaching Turn**—you are nearing a turn in a route.

**Arriving at Destination**—you are nearing your destination.

**Batteries Low**—the battery needs to be recharged.

**Can't Unlock Maps**—no applicable unlock code for one or more maps was found. All MapSource maps are not accessible.

**Database Error**—internal problem with the unit. Contact your dealer or Garmin Product Support to have the unit repaired.

**Lost Satellite Reception**—the unit is unable to continue receiving satellite signals, temporarily.

**Memory Full**—unit memory is full; no more data can be saved.

**No Diff GPS Location**—RTCM is selected, but the unit is not receiving DGPS data.

**None Found**—no data matched the search criteria.

**Route Already Exists**—you have entered a route name that already exists.

**Route Memory Full**—no additional routes can be saved.

**Route Truncated**—uploaded route from another device has more than 50 waypoints.

**Route Waypoint Memory Full**—no additional route waypoints can be saved.

**Track Already Exists**—a saved track with the same name already exists.

**Track Log Full**—the track log is full and track recording has been turned off. In order to record more track points, you need to clear the track log and turn track recording on. This is only displayed when Record Mode is set to Off.

**Track Memory Full**—no more track data can be stored without deleting old data.

**Track Truncated**—a complete uploaded track will not fit in memory. The oldest track log points have been deleted.

**Transfer Complete**—data transfer has been completed.

**Waypoint Already Exists**—a waypoint with the same name already exists.

**Waypoint Memory Full**—the unit has stored the maximum number of waypoints.

# Product and Safety Information

This section contains information about the iQue 3600a, such as compliance and licensing. **Read the Safety Information to learn how to install and use your iQue 3600a safely and responsibly.**

## FCC Compliance

The iQue 3600a complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements.

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

This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

The iQue 3600a does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations.

## Software License Agreement

BY USING THE iQue 3600a, 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 with 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.

## Limited Warranty

This Garmin product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will at its sole option repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL GARMIN BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you.

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

To obtain warranty service, contact your local Garmin authorized dealer or call Garmin Product Support for shipping instructions and an RMA tracking number. The unit should be securely packed with the tracking number clearly written on the outside of the package. The unit should then be sent, freight charges prepaid, to any Garmin warranty service station. A copy of the original sales receipt is required as the proof of purchase for warranty repairs.

Garmin International, Inc.
1200 E 151st Street, Olathe, Kansas 66062 U.S.A.
Tel. 913/397.8200
Fax. 913/397.8282

Garmin (Europe) Ltd.
Unit 5, The Quadrangle, Abbey Park Industrial Estate,
Romsey, SO51 9DL U.K.
Tel. 44/0870.8501241
Fax 44/0870.8501251

The Garmin iQue 3600a has no user-serviceable parts. Should you ever encounter a problem with your unit, take it to an authorized Garmin dealer for repairs.

The iQue 3600a is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way will void your warranty and may result in permanent damage to the equipment.

## Product Registration

Help us better support you by completing our online registration today! Have the serial number of your iQue 3600a handy and connect to our Web site (http://www.garmin.com). Look for the Product Registration link on our Home page.

Use this area to record the serial number in case your iQue 3600a is lost, stolen, or needs service. The serial number is located on the back of the iQue 3600a under the antenna. Keep your original sales receipt in a safe place or attach a photocopy inside the manual.

Serial Number: ___ ___ ___ ___ ___ ___ ___ ___

## Contact Garmin

If you should encounter any difficulty while using your iQue 3600a, or if you have any questions, in the U.S.A. contact Garmin Product Support by phone: 913/397.8200 or 800/800.1020, Monday–Friday, 8 AM–5 PM Central Time; or by e-mail at sales@garmin.com.

In Europe, contact Garmin (Europe) Ltd. at 44/0870.8501241.

## Safety Information

**WARNING**: The iQue 3600a contains a lithium-ion rechargeable battery. The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge out of the unit, disassemble, heat above 122°F (50°C), or incinerate.

**WARNING**: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our Web site at http://www.garmin.com/prop65.

**WARNING**: For VFR use only as an aid to prudent navigation. All information is presented for reference only. You assume total responsibility and risk associated with using this device. Terrain and obstacle data are provided only as an aid to situational awareness.

**CAUTION**: The electronic chart is an aid to navigation and is designed to facilitate the use of authorized government charts, not replace them. Only official government charts and notices to mariners contain all information needed for save navigation—and, as always, the user is responsible for their prudent use.

**CAUTION**: Use the iQue 3600a at your own risk. To reduce the risk of unsafe operation, carefully review and understand all aspects of this *Applications Guide*—and thoroughly practice operation using Simulator Mode prior to actual use. When in actual use, carefully compare indications from the iQue 3600a to all available navigation sources, including information from other NAVAIDs, visual sightings, charts, etc. For safety, always resolve any discrepancies before continuing navigation.

**CAUTION**: IT IS THE USER'S RESPONSIBILITY TO USE THIS PRODUCT PRUDENTLY. THIS PRODUCT IS INTENDED TO BE USED ONLY AS A NAVIGATIONAL AID AND MUST NOT BE USED FOR ANY PURPOSE REQUIRING PRECISE MEASUREMENT OF DIRECTION, DISTANCE, LOCATION, OR TOPOGRAPHY. THIS PRODUCT SHOULD NOT BE USED TO DETERMINE GROUND PROXIMITY FOR AIRCRAFT NAVIGATION.

**WARNING**: The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The system is subject to changes which could affect the accuracy and performance of all GPS equipment. Although the Garmin iQue 3600a is a precision electronic NAVigation AID (NAVAID), any NAVAID can be misused or misinterpreted, and therefore become unsafe.

**MAP DATA INFORMATION**: One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify as required in product literature and copyright messages displayed to the consumer. Virtually all data sources contain inaccurate or incomplete data to some

degree. This is particularly true outside the United States, where complete and accurate digital data is either not available or prohibitively expensive.

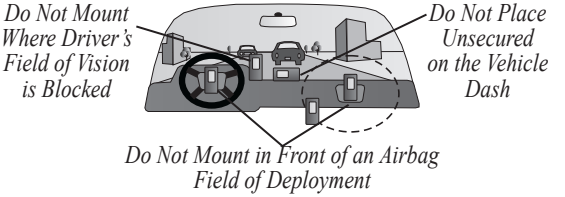
### *Vehicular Navigation Safety Information*

Because the Garmin iQue 3600a can be used for vehicular navigation, important safety considerations must be followed. Read and observe the following instructions.

**WARNING**: For use in vehicles, it is the sole responsibility of the owner/operator of a vehicle with the iQue 3600a installed to place and secure the device so it will not interfere with the vehicle operating controls and safety devices, obstruct the driver's view of driving conditions, or cause or personal injury in the event of an accident.

Do not mount the unit over airbag panels or in the field of airbag deployment. Airbags expand with a rapid force that can propel objects in their path toward the vehicle driver or passengers, causing possible injury. Refer to airbag safety precautions contained in the vehicle owner's manual.

Do not mount the unit in a place where the driver or passengers are likely to impact it in a collision. The mounting hardware provided by Garmin is not warranted against collision damage or the consequences thereof.




**WARNING**: When used in vehicles, it is the sole responsibility of the driver to operate the vehicle in a safe manner, maintain full surveillance of all driving conditions at all times, and not become distracted by the unit to the exclusion of safe driving practices. It is unsafe to operate the controls of the unit while you are driving. Failure by the driver of a vehicle equipped with a iQue 3600a to pay full attention to operation of the vehicle and road conditions while the vehicle is in motion could result in an accident with property damage and personal injury.

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



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