

# æra®

model: 660





Copyright © 2016 Garmin Ltd. or its subsidiaries. All rights reserved.

This manual reflects the operation of System Software version 1.0 or later. Some differences in operation may be observed when comparing the information in this manual to earlier or later software versions.

Garmin International, Inc., 1200 East 151st Street, Olathe, Kansas 66062, U.S.A.

Tel: 913.397.8200

Fax: 913.397.8282

Aircraft On Ground (AOG) Hotline: 913.397.0836

Aviation Dealer Technical Support: 888.606.5482

Garmin AT, Inc., 2345 Turner Road SE, Salem, OR 97302, U.S.A.

Tel: 503.581.8101

Fax 503.364.2138

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

Tel: +44 (0) 238 052 4000

Fax: +44 (0) 238 052 4004

Aviation Support: +44 (0) 370 850 1243

Garmin Corporation, No. 68, Zhongshu 2nd Road, Xizhi District, New Taipei City, Taiwan

Tel: 34-93-357-2608

Fax: 34-93-429-4484

[www.garmin.com](http://www.garmin.com)

Except as expressly provided herein, no part of this manual may be reproduced, copied, transmitted, disseminated, downloaded or stored in any storage medium, for any purpose without the express written permission of Garmin. Garmin hereby grants permission to download a single copy of this manual and of any revision to this manual onto a hard drive or other electronic storage medium to be viewed for personal use, provided that such electronic or printed copy of this manual or revision must contain the complete text of this copyright notice and provided further that any unauthorized commercial distribution of this manual or any revision hereto is strictly prohibited.

Garmin®, aera®, ANT+®, FliteCharts®, SafeTaxi®, and MapSource® are registered trademarks of Garmin Ltd. or its subsidiaries. These trademarks may not be used without the express permission of Garmin.

This product is ANT+® certified. Visit [www.thisisant.com/directory](http://www.thisisant.com/directory) for a list of compatible products and apps.

Jeppesen® is a registered trademark of Jeppesen, Inc.

NavData™ is a trademark of Jeppesen, Inc.

AC-U-KWIK® is a registered trademark of Penton Business Media, Inc.

IFT: RCPGAAE16-0525



# UNIT OVERVIEW



**Unit Overview**

## **Installing the battery:**

- 1) Locate the lithium-ion battery that came in the product box.
- 2) Locate the metal contacts on the end of the lithium-ion battery.
- 3) Insert the battery so that the metal contacts on the battery line-up with the metal contacts inside the battery compartment.
- 4) Insert the battery into the battery compartment, and push until it clicks into place.



**Unit Overview - Battery**

### **Charging the unit's battery using the aircraft's power outlet:**

- 1) Mount the aera 660 in the aircraft and connect the power cable to the aircraft power outlet (cigarette lighter receptacle).
- 2) Route the power cable so that it does not interfere with aircraft operation. The unit begins charging as soon as external power is applied.

## **GPS RECEIVER STATUS**

---

The  bars located at the top of the screen indicate the GPS signal strength.

### **Viewing the GPS status:**

From the **Main Menu**, touch **GPS Info** > **Satellite Status** tab.

## **DISPLAY ORIENTATION**

---

The aera 660 can be viewed in either Portrait or Landscape Mode.

### **Changing the display orientation:**

- 1) From the **Main Menu**, touch **Tools** > **Setup** > **Display**

**Or:**

Press the Power Button once quickly.

# OPERATION

## DEDICATED PAGE ICONS

Dedicated Page Icons are located vertically on the right side of the screen in landscape mode or horizontally along the bottom of the screen in portrait mode.



Scroll up



Scroll down



Nearest Group Icons  
(Nearest Page Only)



OR



Zoom out

OR



Zoom in

OR



Weather Group Icons  
(Weather Page Only)

OR



Direct-to function.



Page menu



- Previous Screen
- Main Menu (Touch and Hold)

OR



Cancel map pointer

# MAIN MENU



Touch the following icons to display the associated page or menu:



- Map** Displays the Map View.
- Charts** Displays the VFR or IFR charts.
- 3D Vision** Displays 3D Vision.
- Nearest** Displays the Nearest Page
- Waypoint** Displays the Waypoint Information.
- Flight Plan List** Displays the Flight Plan List.
- Active Flight Plan** Displays the Active Flight Plan.
- Traffic** Displays the dedicated Traffic Page.
- Terrain** Displays the Terrain View.
- Weather** Displays second-level Weather Icons
- GPS Info** Displays current position and satellite status.
- Tools** Displays second-level Tools Icons.



Touch and hold the **Back** icon at any time to display the **Main Menu**.

## NEAREST ICONS

From the **Main Menu**, touch the  icon to access the Nearest Page.

Touch the following Nearest Group Icons to display the associated function:

	<b>Airport</b>	Displays nearest airports.
	<b>Airport WX</b>	Displays nearest airport weather.
	<b>VOR</b>	Displays nearest VORs.
	<b>NDB</b>	Displays nearest NDBs.
	<b>Intersection</b>	Displays nearest intersections.
	<b>VRP</b>	Displays nearest Visual Reporting Point (VRP) (Atlantic).
	<b>User WPT</b>	Displays nearest user waypoints.
	<b>City</b>	Displays nearest cities.
	<b>ARTCC</b>	Displays nearest ARTCCs (Air Route Traffic Control Centers).
	<b>FSS</b>	Displays nearest Flight Service Stations (FSS).
	<b>Airspace</b>	Displays nearest airspace.

## WEATHER ICONS

From the **Main Menu**, touch the **Weather** icon to access the Weather Page.

Touch the following Weather Group Icons to display the weather product:

	<b>NEXRAD Radar</b>	Displays NEXRAD (NEXT-generation RADar).
	<b>Winds Aloft</b>	Displays Winds Aloft.
	<b>Temps Aloft</b>	Displays Temperatures Aloft.
	<b>METAR</b>	Displays METARs.
	<b>AIRMET</b>	Displays AIRMETs.
	<b>SIGMET</b>	Displays SIGMETs.
	<b>TFR</b>	Displays TFRs.
	<b>Pilot Reports</b>	Displays PIREPs.

## TOOLS

From the **Main Menu**, touch the **Tools** Icon to access the second-level Tools icons.

Touch the following second-level icons to display the associated function:

	<b>Setup</b>	Displays third-level Setup Icons.
	<b>User WPT</b>	Displays User Waypoints and Proximity Waypoints.
	<b>Flight Log</b>	Displays Flight Logs.
	<b>Track Log</b>	Displays Track Logs.
	<b>VNAV</b>	Displays Vertical Navigation.
	<b>Profile</b>	Displays Aircraft Profiles.
	<b>E6B</b>	Displays the E6B Calculator.
	<b>Weight/Bal</b>	Displays the Weight & Balance.
	<b>Data Link</b>	Displays Data Link Information.
	<b>User Timer</b>	Displays User Timer.
	<b>Database</b>	Displays database and software version information.
	<b>VIRB</b>	Displays VIRB Remote Page.

## SETUP ICONS

From the **Main Menu**, touch the **Tools** > **Setup** to access the third-level Setup Icons.

Touch the following third-level icons to perform the associated function:

	<b>Display</b>	Displays backlight intensity/timeout and color mode settings.
	<b>Sound</b>	Displays sound settings.
	<b>Units</b>	Displays unit settings.
	<b>Time</b>	Displays time settings.
	<b>Map</b>	Displays Navigation Map settings.
	<b>Position</b>	Displays position settings.
	<b>Interface</b>	Displays interface settings.



### Alarms

Displays alarm settings.

### Airspace

Displays Special Use Airspace alarm settings.

### Data Link

Displays Data Link Information.

### Bluetooth®

Displays Bluetooth connection settings.

### WiFi

Displays WiFi settings.

### Power

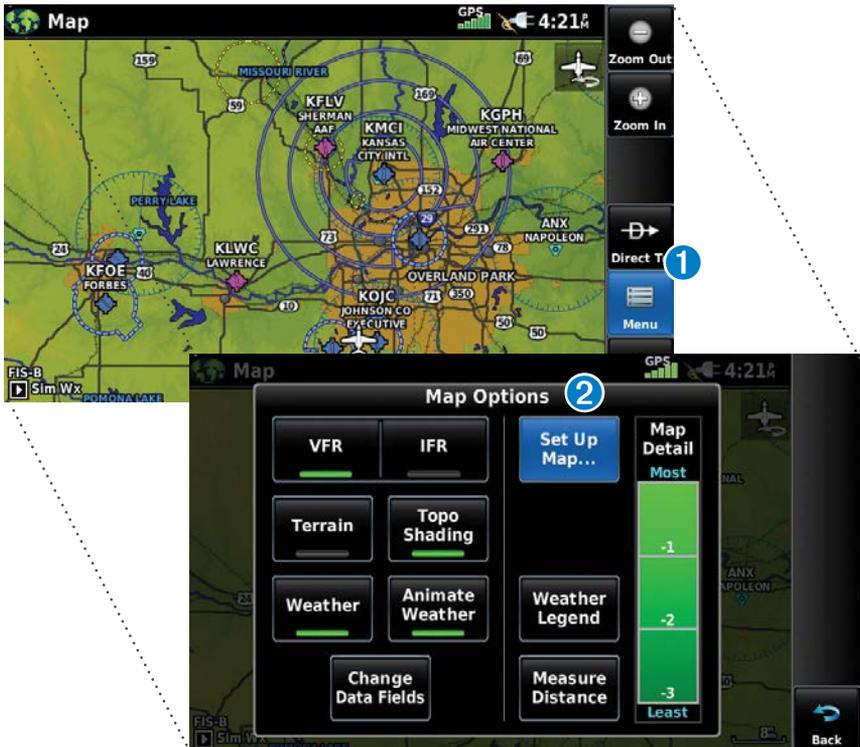
Displays Power Loss Warning settings.

## OPTION MENUS

The aera 660 has a dedicated  Icon that displays a context-sensitive list of menu options available.

### Navigating the option menu:

- 1 Touch the  Icon
- 2 Touch the desired menu option.



# DATA ENTRY

The following icons are displayed in the data entry window.

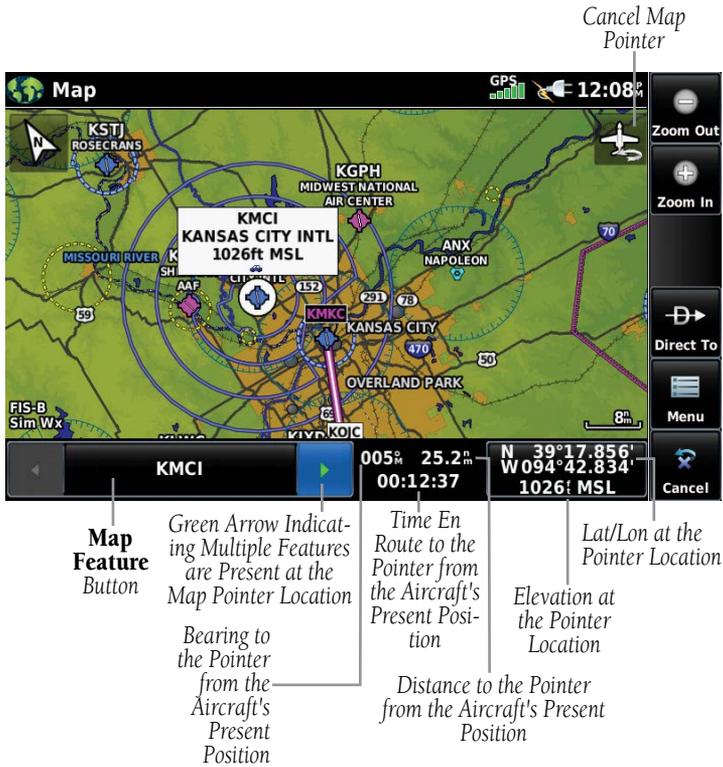
- |   |                      |  |
|---|----------------------|--|
|  | <b>Enter</b>         | Exits the keypad function and accepts the changes. |
|  | <b>Backspace</b>     | Erases the current data.                           |
|   | <b>Numeric/Alpha</b> | Displays the numeric or alpha keypad.              |
|  | <b>Cancel</b>        | Cancels a value that has been edited.              |

## Entering alphanumeric data:

- 1 When alphanumeric data can be entered, a keypad will appear after touching the desired datafield.
- 2 Touch the keypad letters or numbers to enter the desired data.
- 3 Touch **Enter**.



# USING MAP DISPLAYS



## Map Panning (Navigation Map)

### Activating the map pointer:

While viewing a Map Display, touch anywhere on the map to activate the map pointer. Touch the  icon to cancel the map pointer.

### Panning the map:

While viewing a Map Display, touch anywhere on the map and drag.

### Reviewing information for a map feature:

- 1 While viewing a Map Display, touch anywhere on the map to activate the map pointer. When the Map Pointer is over a map feature, the map feature is highlighted, an information box appears on the map, and the highlighted map feature is displayed on the Map Feature Button. If multiple features are present at the Map Pointer position, green arrows will appear on the Map Feature Button.

- 2 If necessary, touch the ◀▶ buttons to cycle through the list of map features present at that position. Touching the ◀▶ buttons changes the highlight and description.
- 3 Touch the Map Feature Button to review information for the Map Feature.
- 4 If desired touch **Direct-to** ➔ to navigate to the map feature.



# BLUETOOTH®

---

## Connecting/Pairing GDL 39 via Bluetooth:

- 1) Ensure the GDL 39 is turned on. From the **Main Menu**, touch **Tools > Setup > Bluetooth > On**.
- 2) Touch **Not Paired** next to the GDL Device. A Bluetooth Passkey window will open.
- 3) Touch **OK**. The GDL 39 is now connected.





Garmin International, Inc.  
1200 East 151st Street  
Olathe, Kansas 66062, U.S.A.  
Tel: 913.397.8200  
Fax: 913.397.8282

Aircraft On Ground (AOG) Hotline: 913.397.0836  
Aviation Dealer Technical Support: 888.606.5482

Garmin AT, Inc.  
2345 Turner Road SE  
Salem, OR 97302, U.S.A.  
Tel: 503.581.8101  
Fax 503.364.2138

Garmin (Europe) Ltd.  
Liberty House, Hounslow Business Park  
Southampton, Hampshire SO40 9LR U.K.  
Tel: +44 (0) 238 052 4000  
Fax: +44 (0) 238 052 4004  
Aviation Support: +44 (0) 370 850 1243

Garmin Corporation  
No. 68, Zhangshu 2nd Road  
Xizhi District, New Taipei City, Taiwan  
Tel: 34-93-357-2608  
Fax: 34-93-429-4484

[www.garmin.com](http://www.garmin.com)