

Instruction Guide



Personal Pocket GPS Locator

Notices and Specifications

About GPS System & Location Accuracy

The Global Positioning System (GPS) is operated by the US 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. In addition, the GPS system itself limits the accuracy of the distance indicated on the device's display to within approximately 3-5 meters of the actual saved location.

About GPS Signals

This device must acquire GPS satellite signals to operate. The device may not be able to acquire signals if located indoors or near tall obstructions (such as trees or tall buildings). Go to an area free from tall obstructions to use the device. When the device acquires satellite signals, the green LED indicator is steady. When it loses satellite signals, you are traveling away from the a stored active location, or the device cannot acquire a GPS signal; the LED is red. This product is designed to provide direction to a saved location. It is not designed as a monitoring device for tall obstructions, hazardous or weather conditions, or other factors that may affect safety while using this device. For more information about GPS, visit IDC Design Corporation's Web site www.idcgps.com.

Warning

This handheld device is only intended to be used as a supplemental navigation aide. The user assumes all responsibilities associated with the use of this product. It must not be used for any purpose requiring precise measurement of location, direction, distance, or topography. This device should not be used for navigating any aircraft or vehicles. It is the user's sole responsibility to exercise proper judgment when using this product under any conditions.

Vehicle Use Notice

IDC is committed to safety and responsible use. Do not use this GPS device to navigate while driving a motor vehicle. Attention to this device while driving can distract the motor vehicle's operator, creating an unsafe situation. Injury, death, or property damage may result if the operator fails to adhere to safe driving practices. It is the driver's sole responsibility to operate the vehicle in a safe manner. The device should not be mounted in a vehicle in a manner to distract, impair the view, or in any way interfere with the motor vehicle's operator or the motor vehicle's safety features (such as an air bag). Windshields and vehicle windows integrated with metallic materials, such as defrosters or tinting film, can degrade GPS reception inside a vehicle.

Liability Notice

In no event will IDC be liable for any incidental, special, indirect, or consequential damages, 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 stated limitations may not apply therein.

FCC Notice

Note: This equipment has been tested and found to comply with the limits for a **Class B** digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device 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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

IDC Contact Information

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www.idcgps.com

Patent #7,233,863 Model IDC-80001-001

Find your way back™!



Fob Label	Description	LCD Label	Description
e1	Press 3 seconds to power On or Off; 1 second to wake or put to Sleep	d1	Indicates GPS searching
e2	Lights green for communication, or red for: no GPS signal, off-course, opposite direction, or no movement	d2	Appears when the battery is low
e3	Press to store current location	d3	Shows rings in a pattern, depending on proximity
e4	Press to start return to last-locked or other location	d4	Points toward active location
e5	Insert the battery cable	d5	Indicates compass direction toward active location
e6	Store up to 3 locations. 1 also used for calibration; 3 also used to change distance unit.	d6	Shows distance unit in ft/mi or m/km to active location
e7	Use to attach keys	d7	Shows active return location #

Before You Begin

Note: The distance and times provided in this instruction guide are approximate measurements.

Charge the Battery



It takes 2 hours to fully charge the battery. The charge lasts 5 hours with typical use during active tracking or 8 days on standby.

1. Connect the charging cable into the **USB port (e5)** from one of the following power sources: AC outlet, vehicle 12v power outlet, personal computer USB port, or an auxiliary power pack (see "Power Source Specifications" on page 16).
2. The LCD backlight turns on and the message on the LCD reads **Charging**. After 5 seconds the backlight turns off.
3. When charged, the message on the LCD changes to **Battery Charged**.
4. Disconnect the charging cable from the **USB port (e5)**. Ecco's features cannot be accessed while connected to the charging cable.



Ecco can detect a low-battery level (below a threshold of 25%); however, the low-battery icon appears on the LCD only during the **Ready**, **Searching**, or **Return** modes.

Power On to Ready Mode



1. Press and hold **power on/off (e1)** for 2–3 seconds. The LCD backlight turns on and the start-up screen appears.
2. Ecco immediately starts acquiring GPS data, indicated by the **GPS status indicator (e2)** blinking green, and the LCD displaying a blinking satellite icon and the message **Searching**.
3. When your current position is determined, the **GPS status indicator (e2)** becomes a steady

green. The satellite icon on the LCD disappears and a sequence of messages appears:
Initializing > Ready.

Calibrate - Important - Do Not Skip

Ecco stores magnetic field inputs, and its digital compass requires calibration to more accurately provide the return. It is required for first-time use; thereafter, whenever you take *Ecco* farther than 100 mi or 161 km.

Note: Whenever instructed to "press and hold" a button, press down for at least 3 seconds.

1. While *Ecco* is in **Ready** mode, hold it face-up; then press and hold **location 1 (e6)** until the LCD message **Hold flat and press lock** appears;



then press and release **lock button (e3)**.

2. The LCD message changes to **Turn 180° around and press lock.**



Keep *Ecco* face-up while turning it completely around toward the opposite direction; then press and release **lock button (e3)**.

3. The LCD message changes to **Turn over and press lock**.



Place—but do not press—your finger on the **lock button (e3)** as you flip *Ecco* face-down;

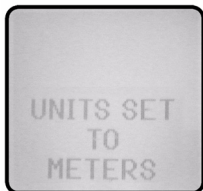


then press and release **lock button (e3)**.

4. Turn *Ecco* face-up to read the LCD message **Calibrate complete**. After 5 seconds, the message changes to **Ready**.

Optional: Change Distance Unit System

You have the option to change the distance unit system from English [feet (ft)/miles (mi)] to metric [meters (m)/kilometers (km)] or back again.

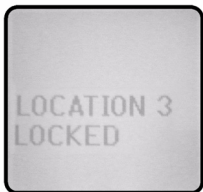


1. While *Ecco* is in **Ready** mode, press and hold **location 3 (e6)** for 3 seconds through a sequence of messages: **Hold to change units > Units set to meters [feet]**.
2. Release **location 3 (e6)**. The LCD message **Ready** appears.

Note: Repeat the previous steps to change back.

Navigating with Ecco

Store a Location



1. While *Ecco* is in **Ready** mode, press **lock button (e3)**. The LCD message **Select location** appears.
2. Press **location # (e6)** to store your current position; then the message **Location # locked** appears. Proceed to your destination.

Note: After 1 minute, *Ecco* goes to **Sleep**, but your stored location will not be lost. It will remain in memory until it is replaced with a new locked position. (See "Sleep Versus Off" on page 9.)

Return to a Location

1. To wake *Ecco* from **Sleep**, press **Power** for 1 second or until the LCD backlight comes on. The LCD message **Ready** appears.
2. To navigate to:
 - Last-locked position: simply press **return button (e4)**.
 - Another stored position: press **return button (e4)** and **location # (e6)**.



3. Follow the **directional arrow (d4)** on the LCD toward the **active location (d7)** (if there is no arrow, see "FAQs" on page 12). Other information displayed on the LCD includes **compass direction (d5)** and **distance (d6)**.

Note: *Ecco* remains on and active as long as it is acquiring GPS data to update the direction and distance information **and** you are moving more than 30 ft or 9 m every 5 minutes. If not, the LCD message **No Movement** appears and *Ecco* goes to **Sleep**. Repeat step 1 to wake *Ecco* up. When in **Ready** mode, press **return button (e4)** and *Ecco* will resume the last course toward your selected location.

4. If you travel off-course (that is, more than 22.5°, are headed in the opposite direction, or the **distance (d6)** is increasing), the **GPS status indicator (e2)** flashes red.
5. In the vicinity of 80 ft or 24 m from the **active location (d7)**, the **proximity ring (d3)** blinks alternating large and small rings.
6. In the vicinity of 20 ft or 6 m, the LCD reads **Found**, and the **proximity ring (d3)** blinks large and small rings simultaneously.
7. After arriving, you can either select another location or simply do nothing. *Ecco* automatically goes to **Sleep** after 2 minutes in the **Found** mode (see "Sleep Versus Off" on page 9).



Additional Information

Sleep Versus Off

In both the **Sleep** mode and the **Off** state, the LCD backlight and LEDs are dark. The main difference is that in **Sleep** mode, *Ecco* attempts to refresh GPS positioning data up to 3 times within a period of 5

hours and 15 minutes. The other difference is the LCD message that appears as *Ecco* shuts down: either **Sleep** or **Off**.

Note: After 5 hours and 15 minutes in **Sleep** mode, *Ecco* times out to the **Off** state.

Ecco will automatically go to **Sleep** if:

- You do nothing for 1 minute while one of these messages appears on the LCD:
 - **Ready**
 - **Select location**
 - **Location 1, 2, or 3 selected**
- You do nothing after **Found** is displayed on the LCD for about 2 minutes.
- **Searching** displays on the LCD for about 2 minutes; then the message **No GPS** appears on the LCD, and the **GPS status indicator (e2)** is a steady red.
- Traveling more than 2 minutes off-course (more than 22.5°, headed in the opposite direction, or **distance (d6)** is increasing) and the **GPS status indicator (e2)** is a blinking red.
- No GPS data is received for about 5 minutes, while the message **No GPS** appears on the LCD, and the **GPS status indicator (e2)** is a steady red.
- There is no change in the GPS data for about 5 minutes, while the message **No Movement** appears on the LCD, and the **GPS status indicator (e2)** is a steady red.

You can manually put *Ecco* to **Sleep** or turn the device **Off** by pressing **power on/off (e1)**. The difference is the length of time you press and hold the button.

- To put *Ecco* to **Sleep**: press and hold **power on/off (e1)** until the LCD message **Sleep** appears.
- You can turn *Ecco* **Off** only during the **Searching** mode or at start-up: press and hold

power on/off (e1) until the message **Off** appears on the LCD.

Distance Units Displayed on the LCD

Current Position from Active Location	Distance (d6) Unit on LCD
Less than 2,640 ft	foot (ft)
Less than 500 m	meter (m)
2,640 ft up to 99.99 mi	0.01 mi
500 m up to 99.99 km	0.01 km
100 mi up to 9,999 mi	mile (mi)
100 km up to 9,999 km	kilometer (km)

When navigating toward a location, the LCD displays the nearest whole or hundredth of a unit measurement, depending on the distance from the location.

FAQs

Why is "Searching" completed quickly sometimes and takes longer other times?

Searching will be completed quickly when *Ecco* is activated from the **Sleep** mode. If *Ecco* is activated from the **Off** state, Searching may take up to 2 minutes to acquire a satellite signal.

What can be done when *Ecco* has difficulty finding a GPS Signal?

To ensure the most effective way for *Ecco* to search for a satellite signal, hold *Ecco* face up toward the open sky. Move away from tall buildings, trees or overhead obstructions.

Why does the arrow point toward metal buildings or power lines when my location is not in that direction?

The digital compass may be affected by large metal objects, such as buildings with metal, power lines, and steel bridges. Move away from these types of objects when using *Ecco*.

Why does the Red light (LED) blink and *Ecco* go to Sleep when I am navigating back to my location?

The Red light blinks when *Ecco* is not traveling in the general direction of the arrow and will go to **Sleep** after approximately 2 minutes. Press the **power button (e1)** and then the **return button (e4)** to continue your navigation. **HINT:** While going around an obstacle to get to your location, rotate *Ecco* in your hand so that the directional arrow points to the 12 o' clock position if you do not want it to go to **Sleep**.

How long does it take to charge the battery?

It takes 2 hours to fully charge the battery.

How long does the charge last?

The charge lasts 5 hours during active tracking or 8 days on standby.

How can I tell if the battery is low?

Ecco can detect a low-battery level (below a threshold of 25%). However, the low-battery icon appears on the LCD only during the **Ready**, **Searching**, or **Return** modes.

Why aren't Ecco's features accessible?

Ecco may need to be charged, or if fully charged, it may still be connected to the charging cable. None of *Ecco's* features are accessible if the charging cable is connected.

Why is the LCD directional arrow missing during the return?

Occasionally, the arrow may not display for a brief moment (for example, if you put *Ecco* in your purse or pocket while navigating; then pull it out). However, if the arrow does not appear after 1-2 minutes, *Ecco* needs to be calibrated.

When do I need to calibrate Ecco?

It is required for first-time use and, thereafter, whenever you take *Ecco* farther than 100 mi or 161 km.

Why is the calibration or unit change unsuccessful?

When instructed to "press and hold" a button, do so for at least 3 seconds; otherwise, *Ecco* reverts to the **Ready** mode with no changes made.

Does Ecco stay on while navigating?

Ecco remains on and active as long as it is acquiring GPS data to update the direction and distance information **and** you are moving more than 30 ft or 9 m every 5 minutes. If not, the LCD message **No Movement** appears and *Ecco* goes to **Sleep**.

Will Ecco remember the selected location if it goes to Sleep while navigating?

Yes. After you power it on to **Ready** mode, simply press **return button (e4)** and *Ecco* will resume the last course toward your selected location.

Can I delete a stored location?

The location remains in memory until it is replaced with a new locked position.

Why doesn't Ecco turn Off when I hold down the Power button?

You can turn *Ecco* **Off** only during the **Searching** mode or start-up. Incidentally, *Ecco* will time out to **Off** after 5 hours and 15 minutes in **Sleep** mode.

Why don't the distance and times exactly match the ones in the instructions?

The distance and times provided in the *Ecco* Instruction Guide are approximate measurements.

1 Year Limited Warranty

This **Ecco™ Personal Pocket GPS Locator** limited warranty covers defects in material and workmanship when you properly maintain the product under normal use for a period of 1 year from the date of purchase. This limited warranty does not cover the IDC supplied power device. This product must be used with the IDC-supplied power device or a power device that is compliant with the specifications listed in the User Guide (see "Power Source Specifications" on page 16). Use with any other power device voids this limited warranty. A product which is defective in material or workmanship will, at IDC's option, be replaced or repaired at no charge to you for parts or labor.

To obtain this limited warranty service, obtain a Return Materials Authorization (RMA) number prior to shipping by submitting a repair request through IDC's Web site at www.idcgps.com. Pack the product securely in a shipping container with the RMA number clearly written on the outside of the package. Send the product shipping-charges-prepaid to the authorized IDC Service Center address provided with the RMA number. Include the following required item:

- Receipt with the date of purchase, or a dated bill of sale

If the sales receipt is not provided, is illegible, or incomplete, or if the product serial number is altered or removed, IDC reserves the right to charge for service. IDC is not responsible for any loss or damage to the product while it is in transit. The replacement or repaired product is warranted for 30 days from the date of the return shipment, or for the warranty days balance from the original date of purchase, whichever is longer. This limited warranty does not apply to damages caused by misuse, abuse, negligence, improper handling, accident, alteration or repair not authorized by IDC, as well as the use of a non-compliant power device. **YOUR EXCLUSIVE REMEDY UNDER THIS WRITTEN LIMITED WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT IDC'S OPTION, OF ANY DEFECTIVE PART COVERED BY THIS LIMITED WARRANTY.**

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. YOU HAVE SPECIFIC LEGAL RIGHTS WITH THIS LIMITED WARRANTY AND MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. IN NO EVENT SHALL IDC 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. IN NO EVENT SHALL IDC'S RESPONSIBILITY EXCEED REPLACEMENT OF THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you. Contact your local dealer for limited warranty information for products purchased outside the USA.

Sales and service: (888) 804-GPS8 [4778] www.idcgps.com

Battery Warnings

If these guidelines are not followed, the internal lithium-ion battery may experience a shortened life span or may present a risk of damage to the GPS unit, fire, chemical burn, electrolyte leak, and/or injury.

- Do not leave the unit exposed to a heat source or in a high temperature location, such as in the sun.
- Do not puncture or incinerate.
- Do not operate the unit outside of the following temperature range: 32°F — 113°F (0°C — 45°C).
- When storing the unit for an extended time, store within the following temperature range: 14°F — 113°F (-10°C — 45°C).
- Do not attempt to remove the battery. To replace battery, contact IDC directly at www.idcgps.com.
- Do not dispose of this product in regular waste.

Power Source Specifications

The following approved power sources must be used under the conditions of Ecco's warranty.

- AC travel wall adapter: input 100–240 VAC 50/60 Hz 0.15A; output 5.0V 0.7A rated UL, CE
- Car adapter: input 12V; output 5.0V
- Standard computer USB 2.0 cable
- Auxiliary 5V power pack