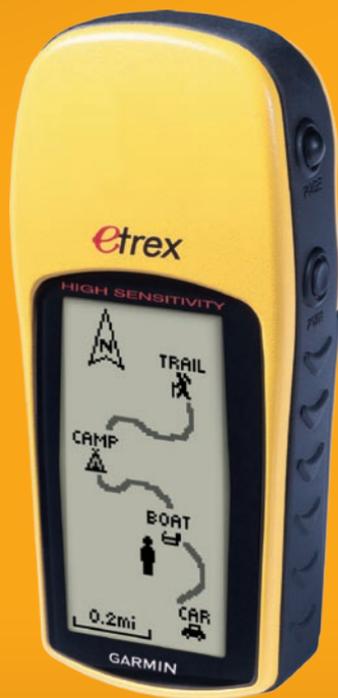


# eTrex® H

*personal navigator*



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## INTRODUCTION

Thank you for choosing the Garmin® eTrex® H. Take a moment to compare the contents of this package with the packing list on the box. If any pieces are missing, contact your Garmin dealer immediately.

### Contact Garmin

Contact Garmin if you have any questions while using your unit. Contact Garmin Product Support by phone: (913) 397-8200 or (800) 800-1020, Monday–Friday, 8 AM–5 PM Central Time; or go to [www.garmin.com/support/](http://www.garmin.com/support/).

In Europe, contact Garmin (Europe) Ltd. at +44 (0) 870.8501242 (outside the UK) or 0808 2380000 (within the UK).

### Product Registration

Help us better support you by completing our online registration today! Connect to our Web site at <http://my.garmin.com>. Keep the original sales receipt, or a photocopy, in a safe place.

### Optional Accessories

For a complete list of available accessories for use with the eTrex, refer to <http://buy.garmin.com>.

**WARNING:** See the *Important Safety and Product Information* sheet in the product box for product warnings and other important information.

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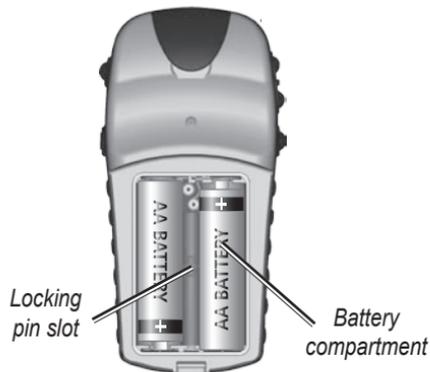
## GETTING STARTED

## Unit Overview



## Installing Batteries and Lanyard

The eTrex operates on two AA batteries (not included). You can use Alkaline or NiMH batteries.



### To install the batteries:

1. Remove the battery cover by turning the Locking ring counter-clockwise and pulling out.
2. Insert the batteries, observing the proper polarity.

Remove the batteries if the unit is not being used for several months. Stored data is not lost when batteries are removed.

### To install the lanyard:

1. Remove the battery cover and place the loop of the lanyard through the slot in the base of the unit.
2. Route the strap through the loop, and pull tight.



## Operating the eTrex

### **Understanding Terms**

**Select**—move the highlighted area on the screen up or down, using the **UP** and **DOWN** keys to select individual fields.

**Key**—when you are directed to press a key, press and quickly release the key.

**Field**—the location on a page where data or an option can be shown or entered.

**Scroll bar**—when viewing a list of items too long to appear on the screen, a scroll bar appears next to the list. To scroll through a list, press the **UP** or **DOWN** keys.

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

### **Manual Conventions**

In this manual, when you are instructed to select an item, small arrows (>) appear in the text. They indicate that you should select a series of items on the screen using the **UP** or **DOWN** keys, and press **ENTER** after each item. For example, if you see “select **TRACKS > SETUP >**,” you should highlight **TRACKS**, and press **ENTER**. Then highlight **SETUP**, and press **ENTER**.

## Key Functions

### UP/DOWN keys

From the Map page, press to zoom the map in or out.

From any other page, press to scroll up or down a list or move a slider bar.

### ENTER/MARK key

Press and release to enter data or menu selections.

Press with a main page open to view its option menu.

Press and hold to **MARK** your location as a waypoint.



### QUIT/PAGE key

Press to cycle through the main pages.

Press to exit a page or quit a function.

### POWER key

Press and hold to turn unit on or off.

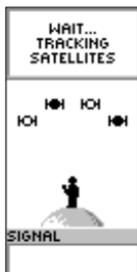
Press and release to turn backlighting on or off.

## Turning on the eTrex

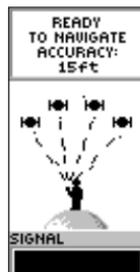
When you turn on the eTrex, the SkyView page appears, followed by a READY TO NAVIGATE message after the unit has collected enough satellite data to establish its current location (initialized).

### To turn the eTrex on and off:

1. Press and hold **POWER**. When the unit turns on, a Welcome page appears followed by the SkyView page.
2. To turn off the eTrex, press and hold **POWER**.



SkyView Page



Ready to navigate

## Backlight and Contrast Adjustment

### To turn on the backlight:

Press and quickly release **POWER**.

### To set the timeout and adjust the contrast:

1. Press **PAGE** until the SkyView page appears, then press **ENTER** twice to open the backlight/contrast window.
2. Press **ENTER** to view the timeout options, make a selection > **ENTER**.
3. Press **DOWN** to move to the contrast slider > **ENTER**.
4. Press **UP** or **DOWN** to adjust the contrast > **QUIT** to close.



*Backlight time out options  
and contrast adjustment  
slider*

### **Selecting Options and Entering Data**

Press **UP/DOWN** to highlight, select, or choose an item in a list or a field on the screen.

#### **To select and activate an option:**

1. From any page except the Menu page, press **ENTER** to view the options menu.
2. Press **UP** or **DOWN** to move the highlight up and down on the menu. To select an option, press **ENTER**.

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

Press **QUIT/PAGE**. The **QUIT/PAGE** key moves backward through your steps. Press **QUIT/PAGE** repeatedly to return to the starting page. Once at the starting page, pressing the key cycles you through the five main pages.

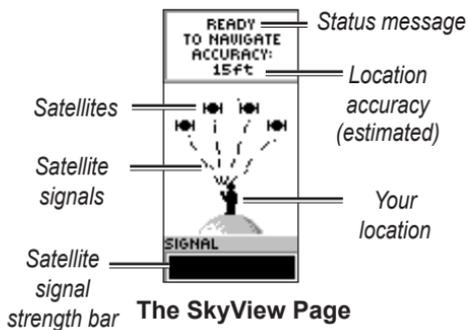
### **On-Screen Messages**

When a significant event in the operation of the unit occurs, an on-screen message appears to advise you of the occurrence. In each case, the condition is described and often a remedy is provided. Press **ENTER** to acknowledge the message and close.

## MAIN PAGES

Information needed to operate the eTrex is found on five main pages. Press **PAGE** to cycle through the pages.

### SkyView Page



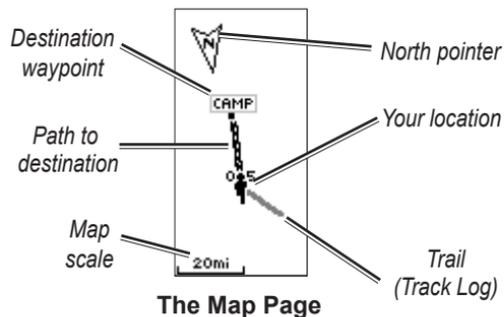
The SkyView page displays the GPS receiver status. It also shows the strength of the satellite signals. A **READY TO NAVIGATE** message is shown when the receiver has gathered enough satellite information to begin navigation.

### SkyView Page Options

To view the options menu, press **ENTER**.

- **Setup Display**—change the display contrast and set the length of time that the backlight will stay on.
- **Advanced SkyView**—select the Advanced SkyView feature to view a page containing detailed information on the satellites.

### Map Page



The Map page shows where you are located, and as you travel, the animated figure leaves a track log. The map also shows waypoint names and symbols.

The eTrex is set to automatically rotate the map as you move, so waypoints that are ahead of you are always displayed in front of the animated figure. The map orientation is shown in the upper left corner.

To increase the map scale, press **UP**. This shows more area in less detail. To decrease the map scale, press **DOWN**. This shows less area with more detail.

### Map Page Options

- **Orient Map Ahead/Northwards**—when **AHEAD** is selected, the top of the map is oriented in the direction you are currently moving, and a figure icon indicates your current position. When **NORTHWARDS** is selected, the map is always oriented to the north, and your current position is indicated by a direction arrow.
- **Auto Zoom On/Off**—when on, the map automatically adjusts its scale to display your entire route. When it is off, press **UP** or **DOWN** to select a map scale.

- **Hide Waypoints**—keeps waypoint symbols and names from being shown on the map.
- **Show Course/Bearing Line**—when using the **GOTO** function, use this option to show a course line or bearing line to your destination. A course line is fixed from your starting location, while a bearing line changes based on your current location.
- **Stop Navigation**—stops active navigation.

#### To select a Map Page option:

1. Press **ENTER** on the Map page.
2. Press **UP** or **DOWN** to highlight an option, press **ENTER**.

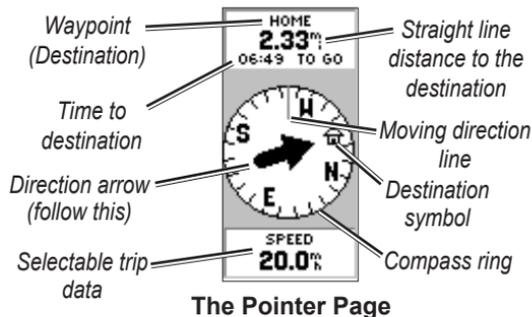


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**NOTE:** A blinking question mark means you have lost satellite reception. Move to a location that has a clear view of the sky.

---

## Pointer Page



The Pointer page helps guide you to a destination. When navigating towards a destination, the Pointer page shows the name, the distance, time to go, and a direction arrow in the compass ring.

The compass ring reflects your heading (direction of movement). To navigate, walk in the direction the arrow is pointing. When the arrow is pointing at the moving direction line, your destination is ahead.



**NOTE:** The eTrex is not a magnetic compass. You must be moving for the unit to determine your heading.

Press **UP** or **DOWN** to cycle through the trip information at the bottom of the page.

### Pointer Page Options

- **Reset Max Speed**—resets the Maximum Speed achieved during a trip.
- **Reset Trip**—resets the trip time, trip distance (odometer), and average speed back to zero.
- **Stop Navigation**—stops any active navigation. If you do not have a GOTO or route activated, this option is not available.

#### To select a Pointer Page option:

1. From the Pointer page, press **ENTER**.
2. Select an option > **ENTER**. The change is made and the options menu disappears.

#### To change a data field:

From the Pointer page, scroll through the options, stopping on the data you want to view.

## Trip Computer Page

The Trip Computer page contains five data fields to show travel information.

Selectable data fields

TRIP ODOM	0.73 <sup>m</sup>
MAX SPEED	8.4 <sup>m</sup> / <sub>h</sub>
MOVING AVG	3.1 <sup>m</sup> / <sub>h</sub>
TIME-MOVING	00:13:57
TIME-STOP	00:01:22

The Trip Computer Page

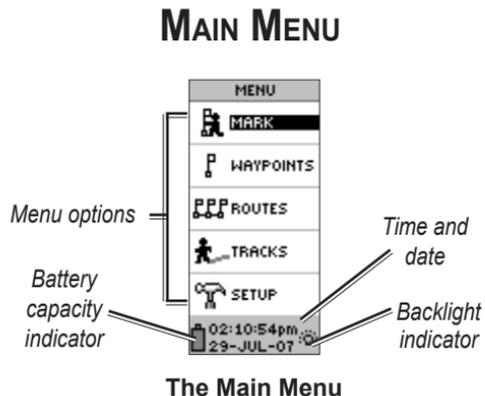
Customize these five fields to show information from a list of data fields.

### Trip Computer Page Options

- **Change Fields**—use the CHANGE FIELDS option to select the data to be displayed from a list of data fields.

### To change the fields:

1. From the Trip Computer page, press **ENTER**.
  2. Select **CHANGE FIELDS > ENTER**.
  3. Select the field to change > **ENTER**.
  4. Select an option > **ENTER**.
  5. Repeat Steps 3 and 4, as necessary.
- **Reset Max Speed**—resets your maximum speed to zero.
  - **Reset Trip**—resets all the data in the Trip Computer to zero.
  - **Restore Defaults**—restores the Trip Computer to display the five default data fields.



Use the Menu page to access advanced features; create and view waypoints, create a route, save and view track logs, or access the system setup features.

### To change the time zone:

1. Press **PAGE** to switch to the Menu page. Select **SETUP > ENTER**.
2. Select **TIME > ENTER**.
3. Select **TIME ZONE > ENTER**.
4. Scroll through the selections. Press **ENTER**, when you have found your correct time zone.

Use the Menu page to customize the display, transfer information from a computer to the eTrex and back again, manage, and organize your waypoints.

### Mark Waypoint Page

Use the Mark Waypoint page to create a waypoint at your current location or at a location you enter in the position field.

#### To mark a waypoint:

Press **PAGE** to switch to the Menu page. Press **UP** or **DOWN** to highlight **MARK**. Press **ENTER**.




---

**NOTE:** The unit must state **READY TO NAVIGATE** before you can mark a waypoint.

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#### To change the symbol:

1. From the Mark Waypoint page, select the waypoint symbol (above the waypoint name) > **ENTER**.
2. Select a symbol > **ENTER**.

**To change the name:**

1. From the Mark Waypoint page, select the numeric name > **ENTER**.
2. Select a letter > **ENTER**. A letter selection window appears. Select a new letter, and press **ENTER**.
3. Select **OK** > **ENTER**.

**Waypoints Page**

From the Waypoints page select a waypoint to edit, locate the nearest waypoints, or delete all of the user waypoints.

**To select a waypoint:**

1. Press **PAGE** to switch to the Menu page. Select **WAYPOINTS** > **ENTER**.
2. Select the alphabetical tab containing the waypoint > **ENTER**. Select the waypoint > **ENTER**.

**To view the NEAREST waypoints page:**

1. On the Waypoints page, select **NEAREST**. Press **ENTER**. The Nearest Waypoints page appears, showing a list of the closest waypoints, including their names and distances from your location.
2. Select a waypoint from this list > **ENTER**.

**To delete all waypoints:**

From the Waypoint page, select **DELETE ALL** > **ENTER**. A confirmation message box appears asking if you really want to delete all waypoints. If you do, select **YES** > **ENTER**.

A GOTO is straight line navigation to a destination.

**To start a GOTO:**

1. Press **PAGE** to switch to the Menu page.
2. Select **WAYPOINTS** > **ENTER**.
3. Select the tab containing the waypoint you want to navigate to > **ENTER**.
4. Select the waypoint > **ENTER**.
5. Select **GOTO** > **ENTER**.

The Pointer page appears and you're ready to begin navigating.

### To stop navigating

1. Press **PAGE** to switch to the Pointer or Map page > **ENTER**.
2. Select **STOP NAVIGATION** > **ENTER**.

## ***Hunt & Fish Page***

The Hunt and Fish page lists best times for hunting and fishing for a chosen location (waypoint) and date.

### To view the Hunt /Fish Page:

On the Review Waypoint page, select **HUNT/FISH** > **ENTER**.

The data provided reflects best times for the current date and at the location of the waypoint unless you enter a new date in the Date field.

## ***Sun/Moon Page***

The Sun/Moon page shows both sun and moon set and rise times for a chosen location and date. This option is located at the bottom of the Hunt/Fish page.

### To view the Sun/Moon Page:

1. On the Hunt/Fish page, select **SUN/MOON** > **ENTER** to view the Sun/Moon page.
2. View the Sunrise and Sunset Times, Moonrise, and Moonset Times, as well as the Moon Phase, for the waypoint location and date.
3. You can set the date at which you want to view the sun and moon position (if other than current) by entering the date in the Date field.
4. Return to the Hunt/Fish page by selecting the **HUNT/FISH** option at the bottom of the page > **ENTER**.

## ***Project***

Use the Project feature to create a new waypoint at a specified distance and bearing, using an existing waypoint as a reference. Change the name, symbol, and elevation of the new waypoint on this page.

### To project a waypoint:

1. Select a waypoint on the Waypoint page > **ENTER**.
2. Select **PROJECT** > **ENTER**. A numeric name is assigned to the new waypoint.
3. Distance is selected by default. Press **ENTER**.
4. With the Edit Number page open, press **DOWN** to move the highlight to the next number in the field. With the preferred digit selected > **ENTER** to activate the drop down number list.
5. Select the correct number > **ENTER**. When all numbers are entered, highlight **OK** > **ENTER**.
6. With the Project Waypoint page open, press **DOWN** to highlight the bearing field > **ENTER** to view the Edit Angle page.
7. Press **DOWN** to move the highlight to the next number in the field. With the preferred digit selected, press **ENTER** to activate the drop down number list.
8. Select the correct number > **ENTER**. When all numbers are entered correctly, highlight **OK** > **ENTER**.

9. The name, symbol, and elevation can be changed on this page as well. When all changes have been made, select **OK** > **ENTER** to save the waypoint. Select **GOTO** to save the waypoint and begin direct navigation to the point.

## Routes Page

Navigate using one of three methods: GOTO TracBack, and Routes.

The Routes feature guides you from the first waypoint in the route to each successive waypoint to your final destination.

The Routes feature and the GOTO feature both guide you to destination waypoints. However, the Routes feature is more useful for navigating to multiple points along a path. When you reach one waypoint, you are directed to the next waypoint on the route.

To create a route, select waypoints from the waypoint list and place them into a route in the sequence that you want to navigate to them. You need at least two waypoints (up to a maximum of 125) linked together

to form a route. Create and store up to 20 individual routes. Saved routes are automatically named based on the first and last waypoints in the route. Saved routes are listed on the Routes page, with an arrow indicating which route is currently active.

Activate the Routes feature and the receiver begins navigation toward the first waypoint in the route. Use the Pointer page to provide steering guidance.

### To create a route:

1. Choose **ROUTE** on the Menu page, then select **NEW ROUTE > ENTER**. An empty route page appears with the first field of the route highlighted.
2. Press **ENTER**.
3. Select the waypoint of your choice **> ENTER**. The waypoint you selected is placed in the first field of the route, and the second field of the route is highlighted.
4. Repeat Steps 2–3 until all of the waypoints are entered into the route.

5. After you have entered all the waypoints into your route, press **PAGE**. Your new route is saved and displayed on the Routes page.




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**NOTE:** You can also plan a route using Garmin MapSource on a computer and upload the route to the eTrex. See your Garmin dealer for more information on using MapSource (MapSource is an optional accessory and is not included with the eTrex H).

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### To activate a route:

1. From the Routes page, select the route that you want to follow **> ENTER**.
2. Select **FOLLOW > ENTER**. You are prompted to select the destination waypoint.
3. Select a destination waypoint **> ENTER**. The eTrex assumes you are at the first point in the route, and the Pointer page appears giving you guidance to the next waypoint in the route list.

## Editing a Route

### To insert a waypoint into a route:

1. Press **PAGE** and switch to the Menu page. Select **ROUTES > ENTER**.
2. Select a route > **ENTER**.
3. Select the waypoint you want to insert a new waypoint in front of > **ENTER**. The Insert/Remove window appears. Select **INSERT > ENTER**.
4. Select a waypoint > **ENTER**.

### To remove a waypoint from a route:

1. Press **PAGE** and switch to the Menu page. Select **ROUTES > ENTER**. Select a route > **ENTER**.
2. Select the waypoint you want to remove. Select **REMOVE > ENTER**.

### To delete a route:

1. From the Menu page. Select **ROUTES > ENTER**. Select the route > **ENTER**.
2. Select **DELETE > ENTER**. The confirmation window appears asking you if you really want to delete the route. Select **YES > ENTER**.

## Tracks Page

The eTrex draws an electronic Track Log on the Map page as you travel. The Track Log contains information about each point it plots, including time and position. Review the saved Track Log on the map, turn recording on or off, and change the way tracks are recorded.

The Track Log starts recording as soon as the unit gets a location fix. Save the current Track Log and clear it before you start traveling. The percentage of memory used by the current Track Log is displayed at the top of the Tracks page. When the display shows 99%, it starts overwriting the beginning track points, you should save the Track Log before it reaches 99% of memory usage.

After a Track Log is saved, the saved track will have a BEGIN and END point. You can save 10 Track Logs.

### To save the current Track Log:

1. From the Menu page, select **TRACKS > ENTER**.

2. Select **SAVE > ENTER**. The Save Back Through window appears giving you a time frame for saving a track or ENTIRE LOG.
  3. Select the preferred option > **ENTER**. The saved track appears graphically on a sub-page.
  4. Select **OK > ENTER**. The track is now saved and appears in the SAVED TRACKS list on the Track Log page.
2. Place the highlight on the preferred saved track > **ENTER**. The saved track is shown on a map with a default track name.
  3. Select the name > **ENTER**.
  4. With the Edit Track Name page shown, press **DOWN** to move the highlight to the next place in the name field. When the location is selected, press **ENTER**.
  5. Select the correct character > **ENTER**. When the name is entered select **OK > ENTER**.

Two other options are: **TRACBACK** and **DELETE**.

### To clear the current Track Log:

1. With the Menu page displayed, highlight **TRACKS > ENTER**.
2. Select **CLEAR > ENTER**.
3. A message asks DO YOU REALLY WANT TO CLEAR THE TRACK LOG?, select **YES**.

### To show a map of a saved track:

1. With the Track Log page shown select a **SAVED TRACK > ENTER**.
2. When finished viewing the saved track, select **OK**.

### To rename a saved Track Log:

1. With the Menu page displayed, select **TRACKS > ENTER**.

### To start TracBack Navigation:

1. With the Track Log page shown select a **SAVED TRACK > ENTER**.
2. Select **TRACBACK > ENTER**. Decide if you want the destination to be at the beginning of the track or the end of the track.
3. Select a destination point. The Pointer page guides you to the destination you selected.

### To delete a saved track:

1. With the TRACK LOG page shown select a **SAVED TRACK > ENTER**.

2. Select **DELETE > ENTER**. Select **YES > ENTER**.

### To delete all tracks:

1. From the Track Log page, select **DELETE ALL > ENTER**.
2. Select **YES > ENTER**.

## Track Setup

Use the Track Setup page to customize the way tracks are recorded.

- **Recording**—select **ON** to record tracks or **OFF** to stop recording.
- **Record Interval**—set the type of interval for recording tracks: Distance, Time, or Auto.
- **Resolution/Value**—this field works with the Record Interval to set how often to record points. If you select Auto, select a resolution for recording track points. If you select Distance or Time, enter the distance or time.
- **Wrap When Full**—select **YES** to overwrite the beginning track points when the Track Log is full. Select **NO** to stop recording when full.

- **Defaults**—restores the factory default settings.

### To use the Track Setup page:

1. From the Track Log page, select **SETUP > ENTER**.
2. Select the preferred fields > **ENTER**. Make the preferred changes to the fields, then press **ENTER** to save the changes.
3. To restore the default Track settings, select **DEFAULTS > ENTER**.

## Setup Page

Use the Setup page to change coordinate systems, map datums, and distance units, and to change the time format, north reference, mode, contrast, and backlight timeout.

## Time Page

Use the Time page to select a 12-hour or 24-hour format, enter the time zone, and Daylight Saving Time.

## Time Format

In the 12-hour time format, the clock functions like a standard clock. The 24-hour option is a 24-hour cycle.

**To change the time format:**

1. Press **PAGE** and switch to the Menu page.  
Select **SETUP > ENTER**.
2. Select **TIME > ENTER**.
3. Select **TIME FORMAT > ENTER**.
4. Select 12 or 24 hours > **ENTER**.

**Time Zone**

Set the Time Zone field to an appropriate zone.

**UTC Offset**

Use the UTC Offset field to match any time zone in the world. To access the UTC Offset field, select OTHER for the time zone, and then enter a time offset from UTC time.

**Daylight Saving Time**

Choose **AUTOMATIC** to automatically change the clock settings for Daylight Saving Time. Choose **YES** to add daylight saving or **NO** for standard time.

**To change the daylight saving field:**

1. Press **PAGE** and switch to the Menu page.  
Select **SETUP > ENTER**.

2. Select **TIME > ENTER**.
3. Select **DAYLIGHT SAVING > ENTER**.
4. Select **AUTO, YES, or NO > ENTER**.




---

**NOTE:** The Daylight Saving Time setting does not affect the UTC offset number.

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**Display Page**

Use the Display page to set the display backlight timeout and the display contrast.

**To change the light timeout:**

1. Press **PAGE** and switch to the Menu page.  
Select **SETUP > ENTER**.
2. Select **DISPLAY**. Press **ENTER** on the Light Timeout field.
3. Make your choice > **ENTER**.

**To adjust the display contrast:**

1. Press **PAGE** to switch to the Menu page. Select **SETUP**.
2. Select **DISPLAY > ENTER**. Select the **CONTRAST** icon.
3. Press **UP** or **DOWN** to adjust the contrast.

## **Units Page**

If using a map in conjunction with the eTrex, select the position format (grid), map datum, map units, and north reference to match the map's units. The eTrex supports the UTM/UPS and latitude/longitude grids.

## **Position Format**

The default position format is latitude and longitude in degrees and minutes (hddd° mm.mmm). User position format is for custom-designed grids.

### **To change the Position Format:**

1. Press **PAGE** and switch to the Menu page. Select **SETUP > ENTER**. Select **UNITS > ENTER**.
2. Select **POSITION FRMT > ENTER**.
3. Select a format > **ENTER**.

## **Map Datums**

If you are comparing GPS coordinates to a paper map, the map datum in the eTrex should match the horizontal map datum used. The default datum in the eTrex is WGS 84. Change only the datum if you are using a different datum than WGS 84.

## **To change the Map Datum:**

1. From the Menu page, select **SETUP > ENTER**.
2. Select **UNITS > ENTER**.
3. Select **MAP DATUMS > ENTER**.
4. Select a datum > **ENTER**.

## **Distance/Speed Units**

Select statute, nautical, or metric units of measure for all speed and distance readouts.

### **To change the Distance/Speed units:**

1. From the Menu page, and select **SETUP > ENTER**.
2. Select **UNITS > ENTER**.
3. Select the **UNITS > ENTER**.
4. Select a unit > **ENTER**.

## **North Reference**

Reference refers to the orientation of a map's grid. True North is the direction from any location on the earth's surface to the North Pole. The eTrex bearings correspond to a compass if the eTrex is set to magnetic north.

**To change the North Reference:**

1. Press **PAGE** to switch to the Menu page. Select **SETUP > ENTER**.
2. Select **UNITS > ENTER**.
3. Select **NORTH REF > ENTER**.
4. Select the reference (TRUE, MAG, GRID, or USER) > **ENTER**.

**Variance**

The eTrex lists the variance between Grid North and True North for the selected North Reference grid.

**To enter Variance manually:**

1. From the Menu page, select **SETUP > ENTER**.
2. Select **UNITS > NORTH REF > USER**.
3. Select **VARIANCE > ENTER**.
4. Enter a value > **ENTER**.

**Angle**

Show directional information in DEGREES or MILS.

**To select an Angle setting:**

1. From the Menu page, select **SETUP > ENTER**.
2. Select **UNITS > ENTER**.

3. Select **ANGLE > ENTER**.
4. Select **DEGREES** or **MILS > ENTER**.

**Defaults**

Restore the Units page to the default settings by highlighting **DEFAULTS > ENTER**.

**Interface Page**

Use the Interface page to connect and use devices such as computers.

**Input/Output Formats**

- **GARMIN**—the format for exchanging waypoint, route, and track data.
- **GARMIN DGPS**—DGPS input using a Garmin beacon receiver and a standard RTCM SC-104 format and DGPS tuning.
- **NMEA OUT**—supports the output of standard NMEA 0183 version 3.0 data.
- **TEXT OUT**—simple ASCII text output of location and velocity information.
- **RTCM IN**—DGPS input using a standard RTCM SC-104 format.

- **RTCM/NMEA**—DGPS input; standard RTCM SC-104 format , NMEA 0183 version 3.0 data.
- **RTCM/TEXT**—DGPS input using a standard RTCM SC-104 format and simple ASCII text output of location and velocity information.
- **NONE**—provides no interfacing capabilities.

If GARMIN DGPS or RTCM/NMEA format is used, additional fields control a differential beacon receiver.

#### To select an I/O format:

1. Press **PAGE** to switch to the Menu page. Select **SETUP > ENTER**.
2. Select **INTERFACE > ENTER**.
3. Press **ENTER** on the I/O format field > select the preferred format > **ENTER**.

## System Page

### Mode

- **Normal Mode**—means the GPS is active and running whenever the unit is powered on.
- **WAAS Mode**—improves the overall accuracy and integrity of the GPS signal.

- **Demo Mode**—demonstrates features and functions inside a closed building where satellite reception is not possible.

#### To select an operating mode:

1. From the Menu page, select **SETUP > ENTER**.
2. Select **SYSTEM > ENTER**.
3. Select **GPS > ENTER**.
4. Select the mode > **ENTER**.

## Language

#### To select a language:

1. From the Menu page, highlight **SETUP > ENTER**.
2. Select **SYSTEM > ENTER**.
3. Select **LANGUAGE > ENTER**.
4. Select a language > **ENTER**.

## Software Version

The Software page shows the eTrex's current software version. To update, go to [www.garmin.com](http://www.garmin.com).

## APPENDIX

### Specifications

#### Physical

**Case:** Fully-gasketed, high-impact plastic alloy, waterproof to IPX7 standards (waterproof to 1 meter for 30 minutes)

**Size:** 4.4”H x 2”W x 1.2”D (11.2 x 5.1 x 3.0 cm)

**Weight:** Approx. 5.3 ounces (150g) w/batteries

**Temperature Range:** 5° to 158°F (-15° to 70°C)<sup>1</sup>

#### Performance

**Receiver:** WAAS enabled, high-sensitivity

**Acquisition time:** Approx. 3 seconds (hot start)  
Approx. 32 seconds (warm start)  
Approx. 39 seconds (cold start)

**Update Rate:** 1/second, continuous

**GPS Accuracy:** <10 meters (33 ft) RMS<sup>2</sup>

**DGPS (WAAS) Accuracy:** 3 meters (10ft) 95% typical with DGPS corrections<sup>3</sup>

**Velocity Accuracy:** .1 knot RMS steady state

**Dynamics:** Performs to specifications to 6 g’s

**Interfaces:** NMEA 0183 (versions 2.00-3.0), RTCM 104 (for DGPS corrections) and RS-232 for computer interface

**Antenna:** Built-In

#### Power

**Input:** Two 1.5-volt AA batteries, External power adapter

**Battery Life:** Up to 17 hours of typical use

Specifications subject to change without notice.

- 1 The temperature rating for the eTrex may exceed the usable range of some batteries. External power can only be applied using the Garmin Auto Power Adapter or computer Interface Cable with Auto Power Adapter; this cable contains a voltage regulator).
- 2 Subject to accuracy degradation to 100m 2DRMS under the U.S.DOD Selective Availability program.
- 3 Optional Differential Beacon Receiver Input (by others).

## **Interface Formats**

Interface formats are selected from the Setup page. The input/output lines on your eTrex are RS-232 compatible, allowing easy interface to a wide range of external devices, including computers, differential beacon receivers, marine autopilots and/or a second GPS receiver.

The NMEA 0183 version 3.0 interface format is supported and the unit can drive up to three devices.

### **NMEA 0183 Version 3.0 Approved Sentences:**

GPGGA, GPGLL, GPGSA, GPGSV, GPRMB, GPRMC, GPBOD, GPRTE.

### **Garmin Proprietary Sentences:**

PGRME (estimated error) and PGRMZ (altitude).

DGPS (Differential GPS) corrections are accepted in RTCM SC-104 version 2.0 format through the Data In line. Beacon receivers with the correct RTCM format may be used, but may not correctly display status or allow tuning control from the GPS unit.

## **Connecting Your eTrex to a Computer**

You can connect your eTrex to your computer using the computer connector cable.

### **To connect your eTrex to your computer:**

1. Lift the communication port protective cover from the back of the eTrex, and insert the smaller connector on cable into the matching port.
2. Connect the remaining cable end to your computer's serial port.

## Software License Agreement

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

Garmin grants you a limited license to use the software embedded in this device (the “Software”) in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin.

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## Declaration of Conformity

Hereby, Garmin declares that this eTrex H product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. To view the full Declaration of Conformity, see the Garmin Web site for your Garmin product: <http://www.garmin.com/products/etrexH/> or Click **Manuals** and then select the **Declaration of Conformity**.

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