

Wrist Type GPS for Outdoor Training / GPS Receiver GH-601

User Manual Version 1.41



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1 Introduction

Globalsat GH-601 provides a fully-sealed, waterproof, large LCD wrist-watch device, as well as a GPS navigation function that locates and tracks points from start to stop. It is adopted for people who exercise for broad kinds of outdoor sports, such as Jogging, Running, Biking, Snow Skiing, etc. It also can be used as GPS receiver by USB interface.

2 Features

1. Built-in SiRF Star III high performance GPS chipset. Excellent sensitivity for position fixing even with a weak signal status.
2. Built-in rechargeable high capacity lithium-ion battery.
3. Large LCD for easy reading.
4. WAAS/ ENGOS support.
5. Waterproof, rigid design to avoid careless damage.
6. Records all history of self-training by defined day.
7. GH-600 series can be used as a GPS receiver with an easy setup.
8. The firmware of the GH-601 can be upgraded through PC.

Navigation: Tracking your route as crumb method; marking and saving your tracking points by a special algorithm; finding specified locations.

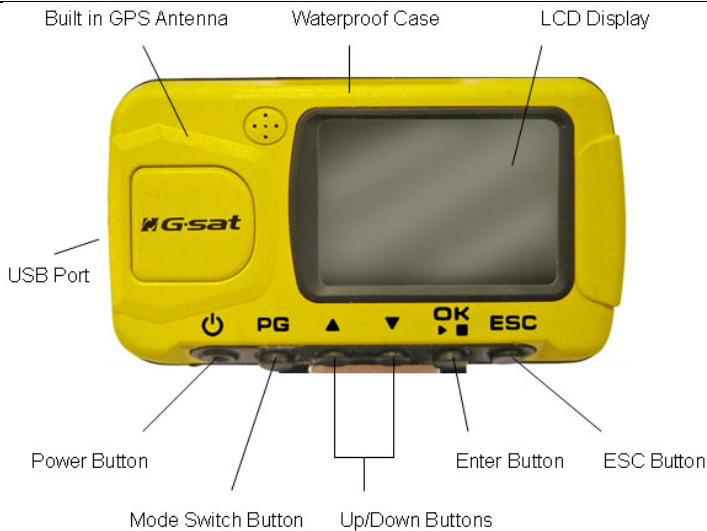
3 Application Software

1. Supporting operating system such as Windows 98 /2000 /XP.
2. Smart training database management designed for easy of use.
3. Easy to use perform firmware upgrades.

4 Accessories

1. User's manual
2. USB cable (For charging and data download)
3. PC software CD
4. AC/DC 5V charger (Optional)




5 Front panel description



6 Charging the GH-601

The GH-601 operates on a built-in Li-ion battery. You must charge the internal battery when the battery runs out.

1. To charge the battery, please connect one end of mini-USB cable to PC USB port and the other end to the mini-USB port of GH-601.
2. Or connect one end of mini-USB cable to AC adaptor and the other end to the mini-USB port of GH-601.
3. When the GH-601 is fully charged, the battery icon scale will be filled. GH-601 can operate up to 16 hours when the battery is fully charged.
4. GH-601 icons

	Battery: The battery icon indicates how much battery power is left. A full battery icon indicates a fully-charged battery.
	Timer icon: When speedometer feature of GH-601 is being used, the timer icon will be displayed under the battery icon.
	Satellite Dish icon: When the GH-601 has acquired enough signal strength from satellites to position your GPS location, this icon appears steady (not blinking) just below the timer icon. The icon appears blinking when it is searching for satellite signal. If you turn off GPS, this icon will not be shown on the screen.

7 Starting up your GH-601

After the GH-601 is completely charged, it is ready for use.

1. Press and hold the **POWER** button until the welcome screen is displayed.
2. Allow the GH-601 time to track satellites the first time you use it. Leave the GH-601 outside and face a clear view of the sky and it will be easy to acquire satellite signals within 5 seconds.

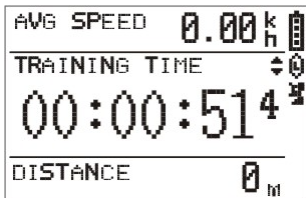
Note. Should the GH-601 become hung up or frozen, please press and hold the **POWER** button for 14 seconds to shutdown, and again to restart.



Welcome screen

Changing the Mode

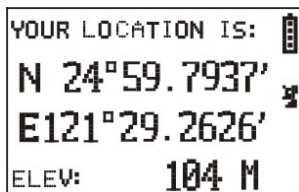
1. Press the **PG** button to cycle through the various modes of the GH-601. The three default modes: Speedometer, Menu and Location modes can be cycled through by pressing **PG** button. If the Map mode is enabled, then this mode will also be cycled through.



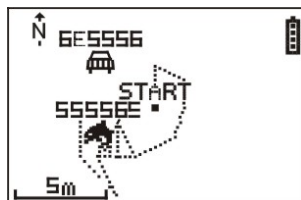
Speedometer mode



Menu mode



Location mode



Map mode (If enabled)

2. **Speedometer Mode:** The Speedometer mode allows you to start or stop the timer, reset the timer and split a lap. It also provides access to two screens:
 - The Timer screen displays “TIME OF DAY”, “SPEED” and “ELEVATION” of your workout.
 - The countdown screen displays the time you spent of workout and average speed and distance of your workout.
3. **Menu Mode:** The Menu Mode provides access to features and settings.
4. **Location Mode:** The Location Mode provides your current location for your reference.

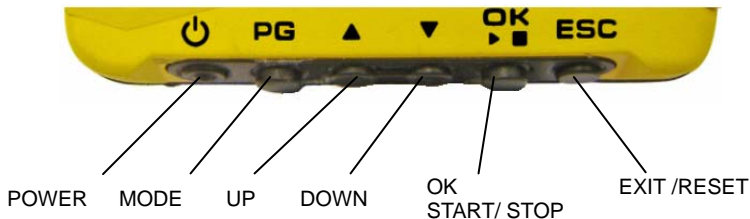
5. **Map Mode:** The Map Mode, when enabled through the Navigation menu, displays where you are going and where you have been on a graphic map.

Setting the Time Zone

When the GH-601 is ready for use; you may need to check the Time Zone selection.
To change the time zone follow steps below:

1. Press **PG** button to display the Menu mode.
2. The current date and time are displayed on the bottom of the screen. When the GH-601 established a GPS fix, the GMT is selected as the default Time Zone.
3. To change the Time Zone, use **UP/DOWN** buttons to select 'select time zone' and press **OK**.
4. Use **UP/DOWN** buttons to select time offset from GMT as **+12,+11...-11,-12** and press **OK**.

Using the GH-601 Buttons



1. The **POWER** button:
 - Press and hold continuously 4 seconds to turn the unit on or off.
 - When the unit is on, press and release to turn the backlight on or off.
 - Press and hold continuously 14 seconds to reset if unit is hung up or frozen.
2. The **PG** button:
 - Press to switch between the Speedometer and Menu Modes.
 - Press to exit the current page or screen.
3. The **ESC/LOOP** button:
 - Press to split a lap when timer is running.
 - When it is in menu mode, press and release to return to the previous page.
4. The **OK** button:
 - Under the Speedometer Mode or Map Mode (if enabled), press to start or stop the timer.
 - Press to confirm data entry or feature selection in Menu Mode.

5. The **UP/DOWN** buttons:
- Press to cycle through the different screens of the Speedometer Mode.
 - Press to adjust the LCD contrast.
 - Press to Zoom in and Zoom out in the Map Mode (if enabled).
 - Press to select the feature in Menu Mode.

8 GH-601 Main Functions

1. **SPORT RECORD**
 - RUN FILE INFO
 - DELETE ALL
2. **NAVIGATION**
 - ADD MAP MODE / REMOVE MAP MODE
 - TURN ON GPS / TURN OFF GPS
 - SAVE WAYPOINT
 - FIND WAYPOINT
 - STOP GOTO / RETURN TO ORIG (return to original location)
 - ALERTS
 - GPS INFO
3. **GPS MOUSE**
 - TURN ON/OFF G-MOUSE
4. **CONFIGURATION:**
 - SETUP TIME ZONE (time zone, such as +12,+11...-11,-12)
 - SETUP GPS
 - SET UNITS
 - USER NAME
 - LCD CONTRAST
 - SET BEEPER
 - UPLOAD TO PC
 - FACTORY RESET
 - ABOUT GH-601
 - UPDATE FROM PC

9 Sport Record

Review your performance record

1. Press **PG** to display the Menu Mode.
2. Select **SPORT RECORD** and press OK.
3. Select **RUN FILE INFO** to review the history record.
4. Select **DELETE ALL** to erase the all history files.
5. When in Run File Info screen, select **VIEW RUN MAP** to review the data information in Map mode or 'Delete' to remove this file.

To save your training data

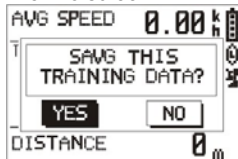
1. In the Speedometer Mode, press ESC to stop the count time.
2. Press ESC and saving window appears.
3. Select **YES** to save your performance data.



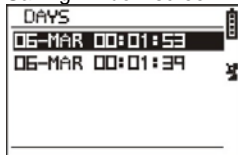
Record screen



File info screen



Saving window screen

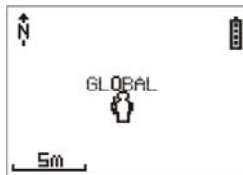


Performance record

10 Navigation

Show your location and record the route where you run

1. Press **PG** to display the Menu Mode.
2. Select **NAVIGATION** and press OK.
3. Press **ADD MAP MODE** to track and record your route. Or press **REMOVE MAP MODE** to disable the map function.
4. Press **TURN ON GPS** to enable GPS function (Default setting is enabled) or press **TURN OFF GPS** for more power saving to increase battery life,
5. Press **FIND WAYPOINT** to locate the position you wish to find.
6. Press **RETURN TO ORIG** to go back to the starting point.
7. If the image of a person in Map Mode is outlined, the GPS is not fixed. If the image is solid triangle, the GPS is fixed.
8. In Map Mode, you can press “UP/DOWN” buttons to zoom in or zoom out. The scale is on the left bottom corner of the screen.



GPS is not to be fixed



GPS is fixed

Save Waypoint

1. In Navigation Mode, press **SAVE WAYPOINT** to save the position where you want.
2. Then the review location appears. (Flagged with symbol, name, and location)
3. Press ENTER and scroll through the available location symbols using DOWN and UP buttons.
Then press ENTER to decide what you want.
4. Press DOWN button to highlight the location name.
5. Scroll through the letter holders using DOWN or UP buttons and press ENTER button to decide what you want.
6. Select ' ↵ ' to finish the symbol modification.
7. To decide the Longitude and Latitude and Elevation, use same procedure as location symbol selection.
8. Press DOWN or UP to highlight the **CONFIRM** field and press OK, the location data will be stored automatically in the memory.



Save Waypoint screen

Find Waypoint

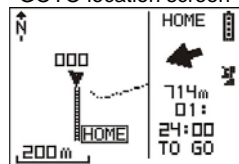
1. In Navigation mode, press **FIND WAYPOINT** to search the position where you want.
2. Press **LIST ALL** to list the location marks and use UP/ DOWN buttons to select the location mark. Or press **DELETE ALL** to erase the all location marks.
3. Press UP/ DOWN buttons to select the waypoints where you want.
4. Select **GOTO** to review locations in Map mode.
Or select **DELETE** to delete the waypoint.
5. You can see clearly the destination from the start point.
6. The distance and time for you to go from current location to destination are shown on the right part of the screen. The destination direction is shown by the arrow sign.



Location mark screen



GOTO location screen



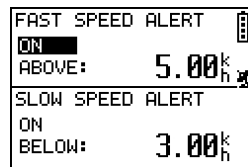
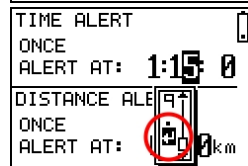
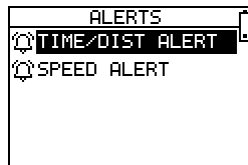
Find Waypoint in Map

STOP GOTO

1. In Navigation mode, the Stop GOTO will appear if the Find Waypoint is enabled.
2. Press **STOP GOTO** to stop the Find Waypoint function in map mode.

ALERTS

1. The alert function allows you to setup for GH-601 to alarm you when a specified condition is met. You can set the condition by “time”, “distance” or “speed”.
2. In Navigation mode, press **ALERTS** and then **TIME/DIST ALERT**. You can set the alert to **OFF**, **ONCE** or **REPEAT**. The maximum time you can set is 99 hours 59 minutes 59 seconds while the minimum is 10 seconds. The value range for the distance setting is from 0.01~99.99.
3. In Navigation mode, press **ALERTS** and then **SPEED ALERT**. You can set it to alarm you when your speed is above or below a value.
4. When you finish setting the value, scroll to the enter sign (see red circle on the right figure) and press OK button.



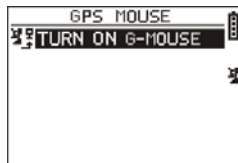
GPS INFO

1. In Navigation mode, press **GPS INFO** to see the GPS performance in your GH-601.

11 GPS Mouse

To use your GH-601 as a GPS Receiver

1. Press PG to display the Menu Mode.
2. Select **GPS MOUSE** and press OK.
3. Select **TURN ON G-MOUSE** and press OK.
4. Please install the GH-601 USB driver on your PC.
5. Please connect one end of mini-USB cable to PC USB port and the other end to the mini-USB port of GH-601.
6. Please set the baud rate to 4800 bps for COM port in PC.
7. Now you can use navigation software to navigate.

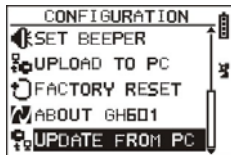


GPS Mouse screen

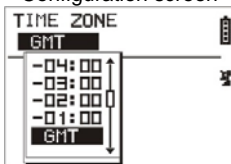
12 Configuration

Configure your system

1. Press PG to display the Menu Mode.
2. Select **CONFIGURATION** and press OK.
3. Press **SETUP TIME ZONE** to setup your local time.
4. Press **SETUP GPS** to enable or disable WAAS/EGBOS for GPS.
5. Press **SET UNITS** to set distance units such as kilometers or miles.
6. Press **USER NAME** to fill your name into the GH-601.
7. Press **LCD CONTRAST** to adjust brightness in LCD by pressing UP/DOWN buttons.
8. Press **SET BEEPER** to turn the beeper on or off in the GH-601.
9. You can return to the default setup by pressing **FACTORY RESET**.
10. Press **ABOUT GH-601** to see the information about GH-601.



Configuration screen



Time zone screen



About GH-601 screen

Upload your performance record to PC

1. In Configuration Mode, press **UPLOAD TO PC** to prepare for data uploading.
2. To upload the data from GH-601 to PC, please connect one end of mini-USB cable to PC USB port and the other end to the mini-USB port of GH-601.
3. Select the suitable COM port for updating.
4. Please set the baud rate to 4800 bps for COM port in PC.
5. Click 'Receive' and select 'location' and 'training' in PC software to upload your performance record.



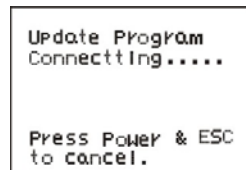
Upload screen

Update your firmware in GH-601

1. In Configuration Mode, press **UPDATE FROM PC** to prepare for firmware update.
2. To update the firmware in GH-601, please connect one end of mini-USB cable to PC USB port and the other end to the mini-USB port of GH-601.
3. Select the suitable COM port for updating.
4. Please set the baud rate to 38400 bps for COM port in PC.



Confirm the update



Update screen

5. Please confirm you wish to update firmware.
6. Select the firmware file from a PC what you want and transfer to GH-601.
7. System will auto-reboot when finished updating.

* **Note:** Please contact your dealer if update not finished and cannot reboot.

FCC Notices

This device complies with part 15 of the FCC rules. Operation is subject to the following two 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.

FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.