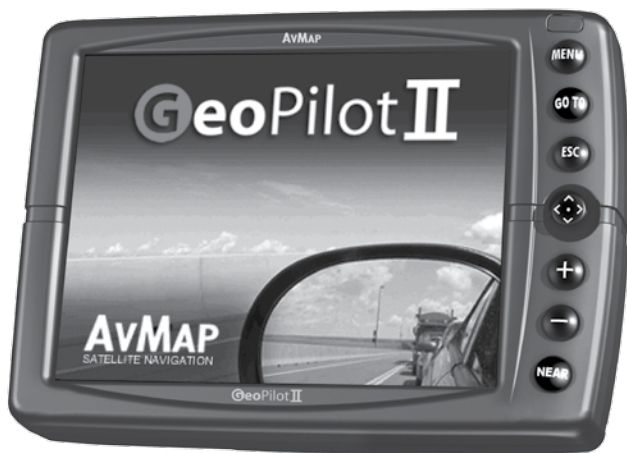




# GeoPilot II

## QUICK GUIDE



[www.avmap.it](http://www.avmap.it)

# GeoPilot II

## QUICK GUIDE

This chapter provides general information about the functions of the keys and entering data (connecting the GeoPilot2 to power).

### 1.1 THE KEYBOARD

The GeoPilot2 has 7 keys, which access and control features. Some keys perform different tasks based on the operation mode. A quick key guide is displayed at the bottom of many menus for easy reference.

Below we indicate the keys in capital letters enclosed between single inverted commas, for example 'MENU'. When a key, for example 'MENU', must be pressed and held down for more than 1 second it is shown as 'MENU' 1 sec.

#### The NEAR key

'NEAR': press and hold to turn the GeoPilot2 On.

'NEAR' 3 sec.: once the GeoPilot has been turned On turns the GeoPilot Off.

'NEAR': (immediately release!) Displays a list of the 20 nearest objects, including private airports which contain runways of at least 500 ft. in length, relative to fix position or cursor position if no fix is available.

'NEAR': 1 sec once the GeoPilot2 has been turned On displays the Brightness and the Night Palette Menu.

#### The GoTo key

Activates a Flight Plan to the cursor position (in Moving Map) or to selected object (in other modes).

GOTO 1 sec.: allows the user to quickly filter mapping information on the display. There are three Cycle modes selectable and holding GOTO shifts from one to the other in succession. The default Cycle is the Cycle 1 that normally activates all features to be visible on the display.

To set user preferences for the Cycle Key:

'MENU' + "SELECTIVE DISPLAY" + 'ENTER'

The Cycles appear in the first three columns and are labeled 1, 2 and 3. In order to adjust at which Cycle features appear, use the Cursor Control key to highlight an item

and hit 'ENTER' to remove the item from appearing. Hit ENTER again to check the item so that it will appear on the display when that Cycle is activated. Continue to use this procedure to activate features in Cycles 1 - 3 as desired.

### The - key

Shows less detail of a larger area by changing the chart scale and zooming out on the map display.

### The cursor key

Moves the cursor on the Moving Map, quickly and accurately. Also scrolls to the desired options in menu page(s).

If pressed on the center it works as an 'ENTER' key, it selects the desired option or confirms selection. Also opens the Cursor/Position Menu.

### The + key

Shows more detail of a smaller area by changing the chart scale and zooming in on the map display. If pressed outside the Moving Map it can be used as an 'ENTER' key

### The Esc key

Rejects an action, closes a window or activates Home or Auto Zoom mode.

'Esc' 3 sec. on the moving map changes the position of the fix icon : one configuration displays the fix icon on the 20% central area of the Moving Map and the other on the exact center of the screen.

## 1.2 THE MENU KEY

The MENU key provides access to different menus : Moving Map Menu, Main Menu, System Setup.



### 1.2.1 Moving Map Menu

The Moving Map Menu provides access to the set up functions of the Moving Map

display. From Moving Map press 'MENU' to display the Moving Map Menu. From the

Moving Map Menu you can select the following options :

#### Viewed FP

This item enables you to select the Flight Plan to display on the Moving Map from

the list of stored Flight Plans.

### Auto Position Mode

It is possible to select the Auto Zoom mode, Home Auto mode or deactivate the function.

### Data Window Mode

This window provides navigation information relating to the Flight Plan and GPS data.

### Setup Data Fields

You can select the item to be displayed in each of the fields of the Data Window.

### Map Orientation

Map Orientation controls the direction that the Moving Map is pointing to.

### Map Presentation

Map Presentation allows you to select the priority of the map display and color selections among AERO+TERRESTRIAL/AERONAUTICAL/MARINE settings.



### Automatic Info

The display of Automatic Information is controlled by this setting.

### VFR, Airspace, Land, Marine and other Settings

The following menus enable/disable the display of categories of data.

### Terrains

With this you can enable/disable Terrain Depiction or the TAWS.

### Selective Display

The Selective Display feature allows you to further customize the display by selecting the chart scale level at which the category of data will begin displaying on the map.

### POI Settings

This feature is similar to the Selective Display, but refers to the Points of Interest (POI).

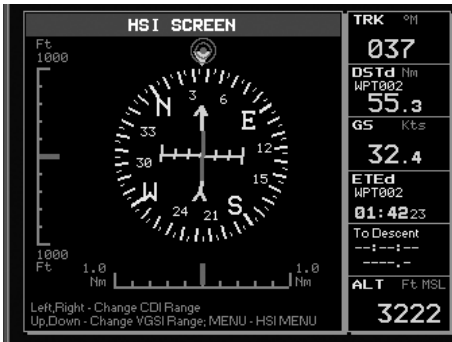


### 1.2.2 Main Menu

The Main Menu provides access to the set up of the main features of the GeoPilot. Press and hold for 1 sec 'MENU' to display the Main Menu. From the Main Menu you can select the following features :

#### Navigation & Location

The Navigation and Location screen displays a full page of navigation information with location coordinates.



#### HSI Screen

The HSI screen presents the desired course to be flown and the current Track in a graphical format similar to the Horizontal Situation Indicator of an aircraft; using the compass rose as the center of the display.

#### Flight plan

The Flight Plan mode allows you to create a Flight Plan with User Points, Temporary Waypoints or Jeppesen object as Waypoints.

#### GPS Page

The GPS page shows GPS data in graphic mode, displaying satellite availability and status.

#### Database

The Database functions allow the user to search for and display information stored in the data cartridges on Airports, VOR, NDB, Intersections and User Waypoints, and to save User Data (User Waypoints, Flight Plans and Tracks) in the CF through File Manager.

#### Calculator

The Calculator functions assist the user in preflight and in-flight calculations for

Vertical Navigation, Wind and Fuel consumption. In addition, clock functions and trip data can be found in this menu.

### **Checklist**

Provides a checklist of standard procedures for Engine Start, Ground Check, Pre-Take-off, Cruise in Flight and Landing.

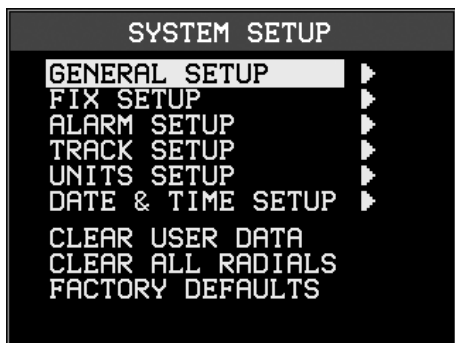
### **Simulator**

The built-in Simulator function allows you to become proficient in the use of the GeoPilot before ever taking it into the cockpit. No current position fix is required because the GeoPilot simulates position data internally. The GeoPilot simulates flight in two ways: a straight flight path or following a selected route.

### **Communication**

The Communications Menu contains options that control the GPS data output.

### **1.2.3 System Setup Menu**



The System Setup Menu allows the user to change how the GeoPilot2 displays information.

Press MENU 3 times to display the Main Menu. From the System Setup you can select the following options :

#### **General Setup**

The General Setup sub-menu controls the general GeoPilot settings like sound, scale, language, etc.

#### **Fix Setup**

The Fix Setup sub-menu contains options relating to GPS data input and display.

#### **Alarm Setup**

The GeoPilot2 provides alarm settings for various functions. Here you can set the system for your navigational requirements.

#### **Track Setup**

Track is the actual course traveled, which the GeoPilot2 can display as a series of connected dots. The interval setting and the color can be defined in this section by the pilot.

## **Units Setup**

This sub-menu contains the various options that define how the Geopilot2 displays units of measurement

## **Date & Time Setup**

These functions control how the Geopilot2 displays time and date settings.

## **Clear User Data**

Deletes all Flight Plans, Track history and User Waypoints.

## **Clear all Radials**

You can delete all stored Projected Radial lines displayed on the Moving Map with this one function.

## **Factory Defaults**

This will restore the GeoPilot2 to all factory default settings.

## **1.3 TURNING THE GeoPilot2 ON/OFF**

Before powering On the GeoPilot2, check for the correct voltage (10-35 Volt DC).

### **1.3.1 TURNING ON**

Press and hold 'NEAR' for 1 second. The GeoPilot2 emits one rapid beep sound and a Title page containing information about the Product name, Software version, library version and cartridges installed is displayed. This data can also be viewed in the "About" page in the "Main Menu".

After a few seconds the Warning page is displayed, reminding you that the GeoPilot2 is an aid to navigation and should be used with appropriate prudence. The electronic charts are not intended to substitute for the official charts. Press 'ENTER' to open the Moving Map screen.

### **1.3.2 TURNING OFF**

'NEAR' 3 sec.: a countdown timer appears on the screen, if you release the key before the countdown timer reaches zero, the GeoPilot2 will remain On.

## **1.4 CHANGING BRIGHTNESS**

Press and hold 1 sec 'NEAR' to adjust the brightness of the display and keyboard (do not press and hold the key for 3 sec. or the "power-off " message will be displayed!).

To increase/decrease the brightness use respectively up/down cursor key.

In addition the Time and the GPS State are shown.

## **1.5 SELECTING THE LANGUAGE**

It is possible to select the language in which the information is displayed (for screen labels, menus and options, but it does not affect the map information). The default setting is English.

> 'MENU' 1 sec. + "SYSTEM SETUP" + 'ENTER' + "GENERAL SETUP" + 'ENTER' + "LANGUAGE" + 'ENTER'

Choose the language you want and press 'ENTER' again to confirm.

## **1.6 DATA ENTRY**

Information is keyed into the GeoPilot2 when editing a Waypoint, entering a Flight Plan, using the calculator and searching the Database. When the field is highlighted:

- Enter or edit data by pressing up/down cursor key to step through the available characters until the desired character is displayed.
- Press right cursor key to move the cursor to the right.
- Use left cursor key to move the cursor to the left. Some pilot-entered data requires either a +, - or a hemisphere identification:
- Move the cursor over the displayed symbol and press up/down cursor key until the desired symbol appears.
- Press 'ENTER' to continue to the next line or to return to the previous menu.

## **1.7 FINAL NOTES**

### **1.7.1 Use with Terrestrial Maps**

The GeoPilot2 is compatible with AvMap terrestrial cartography : with a terrestrial SD inserted the GeoPilot2 becomes a Geosat 4 Drive

### **1.7.2 Full Geopilot2 Manual**

You can download the full version of the Geopilot2 manual from our site [www.avmap.com](http://www.avmap.com) in the support section.

## **Appendix A :**

### Conversion table from Aeronautical to Terrestrial use

AvMap Geopilot II is compatible with the terrestrial Maps of AvMap car navigators (Geosat 4 series), thus adding a new depth to the navigation.

In order to use GeoPilot II as a Car navigator please consult the Geosat 4 manual (available on line at [www.avmap.it](http://www.avmap.it) ). This conversion table shows how to convert the Keyboard from Geopilot II to Geosat.

MENU	MENU
GOTO	FIND
ESC	ESC
+	+
-	-
NEAR	PAGE



# AvMAP

SATELLITE NAVIGATION

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