

# VENTUS GPS G730 DATA LOGGER

## Manual



## Caution

Read before you start to use:

- Global position system (GPS) is obtained by American Ministry of National Defense, and they got the full responsibility about the preciseness and the maintenance. Any changes may cause the capacity and preciseness of GPS differed.
- If you use this device inside of buildings, tunnels, or any huge objects beside you, the GPS signals might be cut-off or disturbed. Please do not consider that the receiver is malfunction.
- The receiver operating temperature is located between – 20°C and + 60°C.

## 1. Introduction

- The GPS USB Dongle Receiver is a total solution of GPS receiver with Venus 621 ;65 channels all-in-view tracking technology.
- This GPS USB Dongle Receiver can communicate with other electronic devices by USB interface.
- The GPS USB Dongle Receiver is designed as an ultra low power consumption device, and high position accuracy. It will update the satellite position every second. This GPS USB Dongle Receiver auto-locating feature is capable of automatically determining a navigation solution without intervention. However, acquisition performance could be interfered and do cold start if the receiver were initialized with occurrence of the following events:

### 1) First in use

**2) The GPS receiver is not in use for more than 3 months or transportation over distances further than 500 kilometers.**

## 2. Features and Functions

- 1) Venus 621 simultaneous time-frequency search bins. Signal detection better than -160dBm
- 2) Cold start < 30 seconds at –147dBm
- 3) Hot start < 1sec. under open sky.
- 4) 5m CEP accuracy.
- 5) Signal reacquisition 1 sec.
- 6 Acquire and track 65 satellites simultaneously
- 7) USB Version 1.1/2.0, 4dBm output level Up to 10m of operation
- 8) Data tag (start, stop point): This means you can set the G730 to log in different time or distance intervals. This function is to be used from the Photo Tagger software.

## **Check the Package Content**

Before you start using, please check out if your package includes the following items.

- GPS USB receiver X 1
- CD with software and driver X 1
- Fastening strap

## **Safety**

- Do not let children play with the GPS receiver as it contains small items.
- Be aware of signs that prohibits the use of electronic devises.
- This receiver contain a LI-Polymer-Battery. Please keep it away from open fire as the battery can explode.
- Used equipment must be disposed of in compliance with current environmental protection regulations.
- You should return it to your reseller or dispose of it in an approved recycling centre.

## **Basic Operations**

### **Charge the battery**

When using it for the first time, the battery must be charged for 4 hours to ensure a full charge. Next time it will take about 2 hours to recharge it. While charging will the green LED lights light up. When the battery is fully charged is the green LED light turned off.

### **Power on/off**

The power button is on the side. It is on when there is light and off when there is no light

## Connect to PC

Connect the USB unit to the USB port in the computer, see Fig 1.1



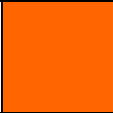



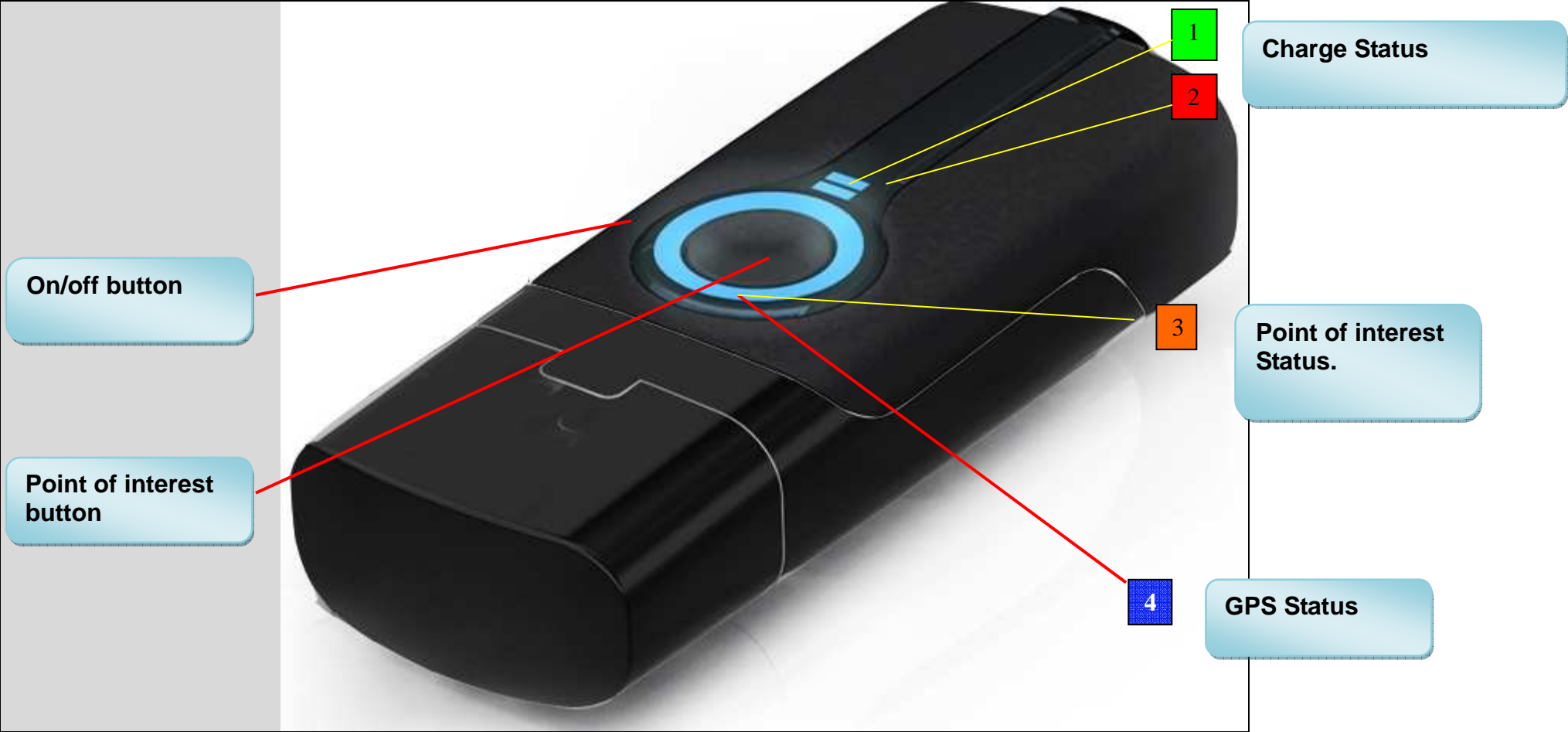
**Fig 1.1**

## Install drivers and software

1. Insert the CD in your pc. Click on "Start" in Windows. Click on "Computer". Then double click on CD.
2. Click on "Photo Tagger" folder and double click afterwards on "GPS Photo Tagger\_install"
3. Click "Allow/OK/Confirm etc" depending on which antivirus you are using.
4. Now follow the installation steps on your pc.

## Identify the colour lights on the GPS receiver

1		Green LED indicates: battery is charging.
2		Red LED indicates: battery is low and must be charged.
3		Orange LED indicates: Point of interest. This function is to be activated by holding the "Point of interest" down for more than 1 second. Then it will automatically activate this position on your track and you can see this on the track on your pc software.
4		<ul style="list-style-type: none"><li>● Blue light on indicates it is on but have not found the position yet.</li><li>● Blue light flashes every 1 second meaning it has found the position</li></ul>



## Quick guide for your first trip

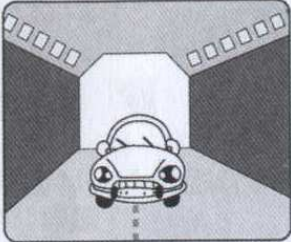

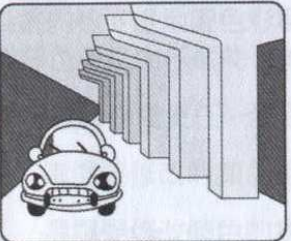
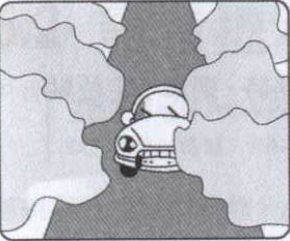
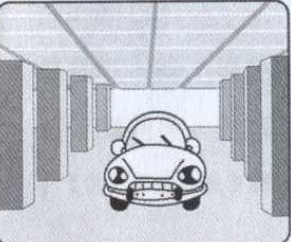
- You now have "Photo Tagger" software well installed on your pc.
- Be aware of correct time settings in "Display Time Zone" on the top of the screen in "Photo Tagger". And remember to click on "Daylight saving time"
- Be aware of correct time settings in "Tools" – "Options", "Photo Time Zone" and click OK to confirm.
- Be aware of correct time settings on your digital camera.
- Start the GPS-logger on the start/stop switch button and wait until the blue light is on. When using it for the first time we strongly recommend you take the GPS-logger outside under open sky for at least 45 seconds to secure that it locks the position.
- Start your trip and take pictures during the trip with your digital camera.
- By the end of the trip, push the start/stop switch button on the GPS-logger again.
- Plug your GPS-logger in your pc and open "Photo Tagger" and push the start/stop button on your GPS-logger again.
- Click on the icon: "Read GPS device log"
- The GPS-logger will now transfer your track(s) to "Photo Tagger" and the tracks will show in the track list in the right side of the screen. Click on the track you would like to see and it will show on the map.
- Connect your digital camera to your pc. Create and Save your pictures in a folder on your pc.
- In "Photo Tagger" you now click on the icon: "Add Media files from folder" and choose the folder you just have created.
- The pictures will now show on the correct positions on the map.
- Click on "Photo Slideshow" which is under "Play".
- Now click on "Play" and the track will be shown on the map with your pictures.

Note: If the pictures does not appear on the track it is due to false time settings. Then please check the following:

1. "Tools"- "Options", "Photo Time Zone"
2. "Daylight Time Zone"
3. "Shift Photo/Media Time", where you can change the time settings on your pictures.
4. Check also your digital camera for correct time setting.

## Concerning of Poor GPS Signal

It is possible unable to receive GPS signal or signal low in these places:

	<p>➤ Inside a tunnel. GPS-signal is blocked.</p>		<p>➤ Beside buildings. GPS-signal is low or disturbed.</p>
	<p>➤ Covers above. GPS-signal is blocked.</p>		<p>➤ Inside a forest or to many covers. GPS-signal is low or disturbed.</p>
	<p>➤ Inside buildings. GPS-signal is blocked.</p>		

- ❑ If you use the USB GPS Receiver inside the car, some anti-sunlight windscreen film will make the GPS signal degraded or signal blank.
- ❑ GPS satellite is owned by America military; sometimes they will tune-down the accuracy by some reason. In such cases, the GPS position may not fixed exactly.



**Used equipment must be disposed of in compliance with current environmental protection regulations. You should return it to your reseller or dispose of it in an approved recycling centre.**

DECLARATION: We hereby declare that this product complies with essential requirements and other related requirements, of the 1999/5/EC R&TTE directive and particularly with article 3 sections 1a, 1b and 3. 9

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