

**KIYO**

**VTX950**GPS

**USER GUIDE**





## 1. PURPOSE OF THE VTX950GPS RADAR- AND LASER DETECTOR

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The purpose of the device is to ensure the safe driving conditions, by warning the driver to Fixed Speed Cameras, Average Speed Measuring Cameras, Red Light Cameras and other risks. With its inbuilt Laser- and Radar Detector, the device can detect mobile speedtraps as well. A free and updatable GPS database ensures that the equipment is always up-to-date.

## 2. OPERATION OF THE VTX950GPS DEVICE

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The device can be turned on with the **POWER/VOL** button. Once it is powered up, the device starts searching for the GPS satellite connection. When successfully connected to the satellites, the device gives a short sound notification and it is ready to use. In a stationary car, the device always shows the current time, while on the move, it shows the speed of the vehicle. When the driver approaches a dangerous spot, the VTX950GPS gives a warning sound on the currently selected language and it shows the distance left until the camera. When the radar antenna detects a signal, the device gives a warning sound on the currently selected language and shows the type and strength of the radar signal, accompanied with a beeping sound. When the **Smart Mute Function** is enabled, the device only gives warnings, if the car is moving faster than the previously set speed limit. Thanks to the **Smart Radar Activation** feature, the number of false alarms is significantly reduced. When it is enabled, the device only gives warning when the driver is closing on a fixed speed camera location that is added to the GPS database.

The user can save additional “dangerous spots” into the database of the device, up to 50 spots (for example, new fixed speed camera locations or intersections considered dangerous by the user).

### 3. LEGAL INFORMATION

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The device warns the driver in case of speeding, but it does not disturb the operation of the speed camera in any way. Always drive below the speed limit and according to the current driving conditions! **Before using the device, please check the applicable laws of the given country!**

## 4. INSTALLATION

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### a) Accessories

**VTX950 GPS device**



**2 brackets with suction cups,  
Velcro tape**



**Spare fuse**



**USB cable**



**Cigarette lighter power cable**



**User Guide**



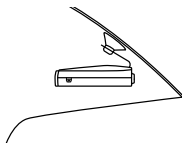
## **b) Finding the perfect location for the device**

For the best efficiency, ensure that the top side of the device has a clear view to the sky and that the backside of the screen is on the windscreen, facing the engine. Metallic surfaces might disturb the connection between the VTX950GPS and the satellites and might interfere with the detection of the radar- and laser signals, therefore, make sure that there are no such surfaces ahead and above the device.

## **c) Mounting the device**

### Mounting to the dashboard

- Mount the bracket on the windshield.
- Align the bracket until it is positioned horizontally.
- Place the detector in the bracket.
- Connect the power cable to the device.
- Connect the power cable to the 12V cigarette lighter socket.

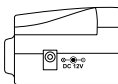


To avoid car theft and solar radiation damage, always remove the device from the bracket when you leave the car.

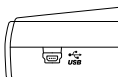
**WARNING! If your vehicle's windshield is metalized, the detector will not be able to find any GPS signals, because the metallic components disturb the connection between the device and the satellites.**

Furthermore, some manufacturer might place a protective plastic film on the windshield of the vehicles. The bracket may leave a mark on these windscreens; therefore, check the user guide of your vehicle for information regarding your windshield.

#### **d) Installation of the device**



- The cigarette lighter power cable connects into the DC 12V socket. (Vid: “Accessories”, p.3.)



- The Mini USB connector of the USB cable goes into the USB socket. (Vid: “Accessories”, p.3.)

- Connect the device to the vehicle’s cigarette lighter socket (DC 12V) via the cigarette lighter power cable. If this socket is connected to a constant current, the Radar- and Laser Detector will function even when the car is not moving. However, in this case, the device will drain the battery in time, therefore, after use, you should turn the equipment off. If the socket is connected to the ignition circuit, the Detector will turn off when the ignition ceases, therefore it will not drain the battery.

#### **e) Turning the device on**

The device can be turned on by holding down the POWER/VOL button. Once it is powered up, the device starts searching for the GPS satellite connection, after connecting successfully, the satellite icon changes into a compass. From this point, in a stationary car the device will show the current time and on the move it displays the most important informations (current speed, dangerous spots, radar signal detection). When the driver approaches a dangerous spot, the device will give a warning on the selected language and will display the distance to the target.

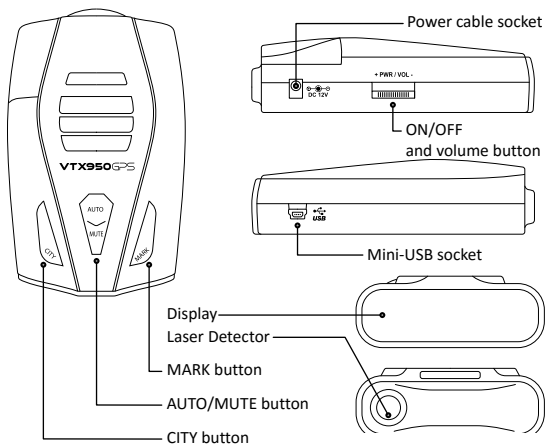
Certain weather conditions, like humidity and temperature fluctuation might cause delay in establishing the connection between the detector and the satellites. In bigger cities, different signals might reflect from buildings, which might cause the same problem.

In certain areas (in tunnels or among high buildings), the satellite icon might reappear on the display. In these cases, the device temporarily lost connection with the satellites, but will reconnect momentarily.

## 5. USE OF THE GPS DETECTOR

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### a) Main control functions





## **b) Functions of the control buttons**

### CITY button

- 1) Change between modes: Highway mode / City mode:
  - In Highway mode the detection sensitivity is at maximum, while in City mode some signals are not detected to reduce the number of false alarms.
- 2) Entering or changing menu

### AUTO/MUTE button

- 1) One short press:
  - Muting current radar warning.
  - When not detecting any signals: enabling AutoMute feature.
  - When this feature is enabled, after 3 seconds the volume of the warning will drop half of the original level.
  - Turning the current feature On/Off in the menu.
- 2) Pressing the button for 2-3 seconds:
  - Enter Settings menu.

### MARK button

- 1) One short press:
  - Changing display brightness between three levels:
  - Low brightness, Medium brightness, High brightness
  - Entering or changing menu
- 2) Pressing the button for 2-3 seconds:
  - Adding new Point of Interest (POI):  
While driving (above 5 km/h, with live satellite connection) press and hold the MARK button to save your current coordinates as POI. These spots can be fixed speed camera locations that are not in the database.

The device will state in the chosen language that the POI has been added. 50 POI can be saved in total.

- **Deleting existing POI:**

Existing Points of Interest can be deleted in two ways. First, when you are approaching the given spot, press the MARK button for a few seconds when the device gives warning about the detection of the POI. When the deletion was successful, the device will give feedback on the selected language and will display the following message: "POI deleted". This function only works above 5 km/h and with live satellite connection. To delete all of the saved points at once, go to the Restore Factory settings or to the Delete POI menus.

### **c) Menu system of the GPS detector**

Press and hold the AUTO/MUTE button for 3 seconds to enter the Settings menu. Use the navigation buttons to move in the menu system and to change the settings.

Use the CITY and MARK buttons to change between menus and the AUTO/MUTE button to modify the current settings.

To save the modified settings, simply wait 3 seconds after changing them and the system will automatically save and exit the menu.

In the following chapter we will describe all of the menus of the VTX950GPS, so you can customize the device as you see best.

**WARNING! Upon some software updates, certain points of the menu system may change and existing settings may be lost.**

### 1 Smart Mute Function (Default: 50)

Below the previously set speed limit, the device will not give any warnings, therefore the number of false alarms is reduced. Available options: OFF, 10-100 km/h.

Display	Function
50 KM/H	Smart Mute function

### 2 Speeding warning (Default: ON)

The device is continuously monitoring the speed of the vehicle near speed camera locations. When this feature is enabled, the device will give a continuous warning if the driver is speeding in the vicinity of a speed camera. In this menu, the feature can be turned off or the user can set the speed above which the device will give warning. Available options: ON, 5 km/h, 10 km/h, OFF.

Display	Function
ON	Speeding warning

### 3 Fixed speed camera location database (Default: ON)

The database contains the location of fixed speed cameras and the traffic light speed cameras.

Display	Function
ON	Database of fixed speed camera locations


### 4 Average speed measuring camera database (Default: ON)

The database contains the locations of Average speed measuring camera zones and Section control cameras.

Display	Function
ON	Database of Average speed measuring camera locations.


## 5 Red light camera database (Default: ON)

The database contains the locations of Red light cameras, bus lane cameras and surveillance cameras.

Display	Function
 <b>ON</b>	Database of red light camera locations.

## 6 Dangerous zone database (Default: ON)


The database contains the locations of dangerous intersections, railway crossings, etc.

Display	Function
 <b>ON</b>	Database of dangerous zone locations.

## 7 SRA – Smart Radar Activation (Default: OFF)


With this feature, the number of false alarms can be further reduced. When enabled, the device will only give warnings when the vehicle is approaching a location that is saved in the GPS database.

**Warning!** This feature is optimized to Hungarian speed cameras, therefore turn it off when you are driving outside of Hungary!

Display	Function
 <b>ON</b>	SRA – Smart Radar Activation

## 8 SLM – Smart Laser Mute (Default: ON)


With this feature, the number of false alarms can be further reduced. When enabled, the device will not give warnings when the vehicle is approaching a location in the GPS database where there are known false alarm sources.

Display	Function
 <b>ON</b>	SLM – Smart Laser Mute

## 9 Toll gate location database (Default: ON)

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The database contains the location of toll gates.

Display	Function
 <b>ON</b>	Database of toll gate locations.

## 10 Key Sound (Default: ON)

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In this menu, you can turn the sound of the function buttons ON or OFF.

Display	Function
 <b>ON</b>	Key sound settings.

## 11 Startup tone (Default: OFF)





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In this menu, you can turn the startup tone ON or OFF.

Display	Function
 <b>OFF</b>	Startup tone settings.


## 12 Radar bandwidths and laser detection settings

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Display	Function
 <b>ON</b>	X-band detection (Default: ON) Turning the detection of X-bands ON or OFF.
 <b>ON</b>	K-band detection (Default: ON) Turning the detection of K-bands ON or OFF.
 <b>OFF</b>	Ka-band detection (Default: OFF) Turning the detection of Ka-bands ON or OFF.
 <b>ON</b>	Laser detection (Default: ON) Turning the laser detection ON or OFF.


### 13 Detection warning distance (Default: 500m)

In this menu, you can set the warning distance. Under this distance, the device will start giving warning signals. If you drive mostly on highways, than set the limit to 750 m, if you drive more in cities, set it to 250 m. If you are driving both on highways and in cities, set the limit to 500 m.

Display	Function
 <b>500M</b>	Detection warning distance


### 14 Setting Time Zone (Default: +02)

In this menu, you can set the GPS time. When changing to/from DST or entering another time zone, the device will not set the time automatically, it had to be set manually.

Display	Function
 <b>+2</b>	Setting GPS Time Zone.


### 15 Deleting user points or POI

In this menu, you can delete all of the previously added user points or POI.

Display	Function
 <b>YES</b>	Deleting all user points or POI.


### 16 Restore Factory Settings

Restoring the factory settings of the device.

Display	Function
 <b>YES</b>	Restoring the factory settings of the device.

## 17 Software and database version

In this menu, you can check the current software and database versions of the device and decide if they need to be updated.




Display	Function
	Displaying software and database version numbers.

## 18 Speed camera warnings

### a) Radar and Laser detection warnings


When the device detects a radar signal, it will give a warning sound and will display the detected radar bandwidth and its strength (1-6 scale).





Display	Function
	Highway mode
<b>70</b>	Smart Mute Function: 70 km/h (Below 70 km/h, it will not give warning sounds)
<b>K4</b>	K-band detection, strength 4
	Signal strength 4
<b>80</b> <sup>km</sup> / <sub>h</sub>	Current speed: 80 km/h
	Direction: North-East

*The device might also detect the following signals:*

Display	Function
	X-band

Display	Function
	K-band

Display	Function
	Ka-band





Display	Function
	Laser Detection

**Warning!** Due to the laws of physics, the device cannot “foresee” the laser speed cameras, like it does the radar cameras. Upon laser detection, always drive within the speed limit!

**b) Warnings based on database locations (e.g. fixed speed cameras)**

When the vehicle approaches a dangerous location that is saved in the database, it will display the type of the threat and the remaining distance.



Display	Function
	City mode
	Fixed Speed camera detected
	Distance: 485 meter
	Current speed: 68 km/h





**70**


Speed limit: 70 km/h

If you are above the speed limit, the device will give a warning sound.


***The device might also detect the following threats:***


Display	Function
	Fixed speed cameras

Display	Function
	Section control cameras or average speed measuring cameras

Display	Function
	Red light cameras

Display	Function
	Toll gate

Display	Function
	Dangerous zone






Display	Function
	User point or Point of Interest (POI)

When detecting a Section control camera or an Average speed measuring camera, the device will display the current and the average speed at the same time.

### c) User point warnings

When you are approaching a previously saved user point, the device will display the location.



Display	Function
	Highway mode
	User point or Point of Interest (POI)
	Distance: 485 meter
	Current speed: 80 km/h
	No speed limit

## 6. TROUBLESHOOTING

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### The device not turn on

- Check both ends of the power cable and see if they are correctly connected.
- Check the fuse in the cigarette lighter connector and change it if necessary.
- Check if the cigarette lighter socket of the vehicle is working correctly.
- Change the power cable if it is broken or damaged

### **No GPS signal**

- Check that the device has a clear view to the sky. If it is blocked or you are in a garage, it might interfere with the GPS signal.
- Check if your windshield is metallized or not, metallic surfaces might block the GPS signal.

### **Some features are not working**

- Restore the factory settings in the Settings menu and install the latest update to the device.

## **7. TECHNICAL SPECIFICATIONS**

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**Power:** DC 12 V

**Size:** 70 x 115 x 35 mm

### **Frequency ranges:**

**X-band:** 10.525 GHz  $\pm$  50 MHz

**K-band:** 24.150 GHz  $\pm$  100 MHz

**Ka-band:** 34.0 GHz, 34.3 GHz, 34.7 GHz, 35.5 GHz

**Laser detection:** Fama III, ARH CAM-S1 and speed measuring devices that work on 904-905 Nm bandwidth.

## **8. MAIN FEATURES**

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- Customizable warning system.
- Free database updates.
- Hungarian or English warning sounds.
- Detection of fixed speed cameras.
- Detection of radar speed cameras.
- Displaying current speed.
- Compass.
- Speed-based mute function.
- Enabable radar detection (X-band, K-band, Ka-band).

- Smart Radar Activation – (reducing number of false alarms).
- Smart Laser Mute – (reducing number of false alarms).
- Adjustable display brightness.

## 9. UPDATE

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The latest software, database updates and the USB driver of the device can be downloaded from the following website:

**[www.kiyotechnology.com/en/vtx950gps-update.php](http://www.kiyotechnology.com/en/vtx950gps-update.php)** Here, you can find all of the most important information on how to install the driver and the database update. Furthermore, on this page you can download the electronic version of this User Guide.

### **WARNING!**

After a software update, certain points of the menu might change and some previously saved settings might be lost! For the best efficiency, always download the update from the website of the manufacturer and use the user guide to set your device up correctly.

## 10. WARRANTY

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We ensure a 1-year warranty (check the warranty card) for the device, considering that it was used accordingly. The warranty starts on the day of the purchase and can only be claimed with a valid warranty card.

The manufacturer and the distributor is not liable for any speeding tickets, or for any other fine caused by the use or not appropriate installation of the device.

The purpose of the equipment is not to promote speeding, but to avoid the accidental overspeeding. Obey the speed limits at all times and always drive safely!

The Radar Detector is not infallible, therefore in some situations, caused by external factors, it may signal late or not at all. This is not caused by the malfunction of the device, but by the laws of physics or by the different speed measurement methods of the given country.

## NOTES

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