

GPS^{detector} 800

USER MANUAL



1. PURPOSE OF THE GPS DETECTOR

The purpose of the device is to ensure the safe driving conditions, by warning the driver to Fixed Speed Cameras, Section Control Zones, Red Light Cameras and other risks. To do so, the detector uses a free and upgradeable GPS database.

2. OPERATION OF THE DEVICE

After igniting the engine, the device powers on and starts connecting to the GPS satellites. A short sound signal indicates the successful connection and that the device is active. The detector displays the current speed of the vehicle until it detects a speed camera. When a camera is detected, the device signals to the driver in the selected language and displays the current distance to the speed trap.



With the optional Radar Detector module, the GPS Detector can also indicate the location of mobile radar speed cameras. The device can be hidden into the dashboard compartments or behind the dashboard itself; in such cases, the optional GPS antenna ensures the stable connection to the satellites.

The driver can add new “Danger Zones” to the database of the device, for example, new speed camera locations or crossroads that the driver found particularly dangerous.

3. INSTALLATION

a) Accessories

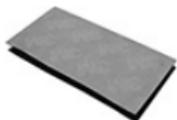
Central Unit



Bracket



Velcro tape



Cigarette Lighter Power Cable (with a spare fuse)



USB Cable



User Manual



Optional accessories

Radar Detector module



GPS receiver



b) Finding the perfect location for the device

For the best efficiency, ensure that the logoed side of the device has a clear view to the sky. Be warned that metallic parts might interfere with the connection between the Detector and the satellites, therefore make sure that there are no such parts above the device. Do not place the device where it may limit the driver's view or where it can cause injuries upon sudden braking.

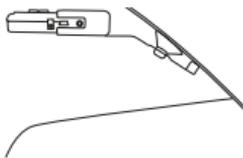
If you wish to place the device below the dashboard or into certain dashboard compartments, the separately purchasable GPS receiver will ensure the connection between the satellites and the device.

WARNING! If your vehicle's windscreen is metalized, the detector can only function properly with the optional GPS receiver, because the metallic components of the windscreen may interfere with the connection between the detector and the satellites.

c) Mounting options

Mounting on windscreen

- Mount the bracket on the windscreen.
- Align the bracket until it is horizontal.
- Put the detector into the bracket.
- Attach the power cable to the device.
- Plug the power cable into a 12 V cigarette lighter socket.



When you leave the vehicle, remove the device from the bracket, in this way you can avoid solar damages and other dangers. The stealth installation may be more convenient and may even improve the service life of the device.

WARNING! Some manufacturer might place a protective plastic film on the windscreen of their latest vehicles. The bracket may leave a mark on these windscreens; therefore check your vehicle’s user manual for information regarding your windscreen.

Mounting to dashboard

- Locate a suitable mounting location and clear that spot thoroughly.
- Remove the protector foil from the Velcro tape and attach it to the device.
- Remove the protector foil from the Velcro tape attached to the device and mount the equipment on the selected and cleaned surface.
- Connect the device and the cigarette lighter socket via the power cable.

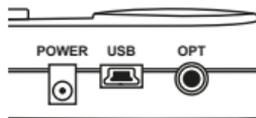


Stealth installation

Because the device at the same time displays the threat and gives a voice signal in the selected language, it may be installed into hidden compartments. There are many places where it can be hidden, for example, in the glove-box, in the car’s center console, into the compartment of the armrest, or even below the dashboard. After locating the given spot, follow the steps of the “Mounting to dashboard” section.

In case of a stealth installation, a GPS receiver is also necessary to ensure the connection between the GPS Detector and the satellites. For the best efficiency, the receivers should be placed to the lower part of the windscreen. If the windscreen is metalized, the receivers should be installed into the front bumpers.

d) Setting the device up



- The power cable of the cigarette lighter goes into the POWER socket. (Vid: “Accessories”, p.2.)
- The mini USB connector of the USB cable goes to the USB socket. (Vid: “Accessories”, p.2.)
- The optional Radar Detector module can be attached to the OPT socket. (Vid: “Connecting to the Radar Detector Module”, p.17.)
- Connect the device to the vehicle’s cigarette lighter socket (DC 12-24 V) via the cigarette lighter power cable. If this socket is connected to a constant current, the Detector will function 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 Detector on

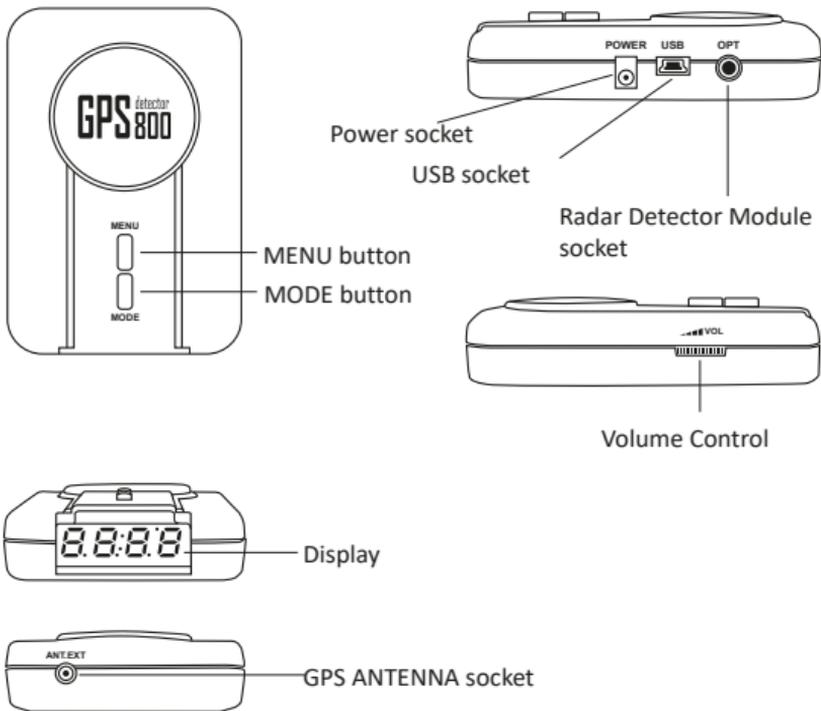
The device turns on when igniting the engine and starts searching for the connection with the GPS satellites. This *Searching* is displayed on the screen of the device, once it is connected, the inscription will disappear and the device is operational. A short greeting message in the selected language can also be added to the startup of the device.

The time for finding the GPS signals for the first time may vary depending on weather conditions, like the humidity of the air and the temperature. In cities, signals reflected from certain objects may also extend the searching time. Upon driving in tunnels or near tall buildings, the device may lose the connection with the satellites and display the searching text again, but it will reconnect in time.

WARNING! Without GPS connection, most of the device's functions are disabled. (e.g.: SMART MUTE, GPS database, etc...)

4. USE OF THE GPS DETECTOR

a) Controls of the GPS Detector



b) Settings

The settings of the device can be adjusted in the menu system, with the MENU and MODE buttons. (vid: "c) Functions of the GPS Detector", p.8-13.)

MENU button

- One short press: entering into the first menu of the settings. (vid: p. 8, **1** GPS receiver function)
- Every following short press: jumping to the next setting in the menu.
- After 5 seconds of inaction, the device will exit from the settings automatically.

MODE button

a) Adding/deleting user coordinates

- While driving (above 10 km/h (6.21 mph) and with an active GPS connection) press the MODE button to add your current position to your User Coordinates. These points can be, for example, new speed camera locations, that were not in the database before. The device will state the saving of the new coordinate in the selected language. The maximum number of User Coordinates is 50.
- A previously added User Coordinate can be deleted two ways. The first option is when you are closing to the saved coordinate, wait until the device warns you and then press the MODE button to remove the given coordinate. The device will state if the coordinate had been successfully removed. This function works only with active GPS connection and above 10 km/h (6.21 mph).
- All of the saved User Coordinates can be deleted in the **21** **FACTORY RESET** menu.

b) Enabling and disabling functions in Settings.

c) By pressing and holding the MODE button for 4 seconds, the Radar Detector module can be turned on or off. A displayed text and a beeping sound indicates the activation and deactivation. (Vid: p. 19, "Startup of the device")

The following tables will show the available options of the device. The system includes 21 menus, one for every function of the device.

c) Functions of the GPS Detector

WARNING! Upon some software updates, certain points of the menu system may change. For the proper use of the device, always use the manual from our homepage.

1 GPS receiver function (default: ON)

If you wish to use only the Radar Detector module, then turn the GPS receiver off. **Warning!** With the GPS receiver turned off, the device does not warn of the dangers saved in the GPS database.

Display	Function
R ON	Enabling GPS receiver
R OFF	Disabling GPS receiver

2 Smart Mute (mute based on speed) (default: 50)

The Smart Mute function reduces the number of false alarms, if a Radar Detector module is connected to the GPS Detector.

Display	Function
b 10 - b 90	10-90 km/h (6.21 – 55.92 mph) (No signaling below the limit.)
b OFF	Turning the Smart Mute function off.
b C ,	City mode: reduced radar signal detection.

3 Setting GMT (default: +1)

The time zone is not updated automatically upon changing to or from Daylight Saving Time; the current time must be adjusted manually.

Display	Function
<i>GMT</i>	Displaying GMT
between - 12 and 12	Setting Time Zones

4 Database of the Fixed Speed Camera locations (Default: ON)

The database contains the locations of the fixed speed cameras and of those that are built into traffic lights.

Display	Function
<i>d1on</i>	Indicating Fixed Speed Cameras: ON
<i>d1of</i>	Indicating Fixed Speed Cameras: OFF

5 Section Control database (Default: ON)

The database contains the locations of Section Control Zones and Section Control Cameras.

Display	Function
<i>d2on</i>	Indicating Section Control Cameras: ON
<i>d2of</i>	Indicating Section Control Cameras: OFF

6 Red Light Camera database (Default:ON)

The database contains the locations of Red Light Cameras, Bus Lane Cameras and Surveillance Cameras.

Display	Function
<i>d3on</i>	Indicating Red Light Cameras: ON
<i>d3of</i>	Indicating Red Light Cameras: OFF

7 Dangerous zones database (Default: ON)

The database contains the locations of dangerous crossroads, rail crossings, etc.

Display	Function
<i>d4.oN</i>	Indicating Dangerous Zones: ON
<i>d4.oF</i>	Indicating Dangerous Zones: OFF

8 SRA – Smart Radar Activation (Default:ON)

By enabling, the number of false alarms can be reduced, because the device will only warn to speed cameras that are saved in the database.

WARNING! Use this function only in HUNGARY!

Display	Function
<i>d5.oN</i>	Smart Radar Activation: ON
<i>d5.oF</i>	Smart Radar Activation: OFF

9 HU-GO Electronic Toll System database (Default: ON)

The database contains the locations of the Hungarian HU-GO electronic toll system gates.

Display	Function
<i>d7.oN</i>	Indicating HU-GO toll gates: ON
<i>d7.oF</i>	Indicating HU-GO toll gates: OFF

10 Displaying average speed

Displays the average speed measured since turning the device on.

Display	Function
<i>E 1 - E999</i>	Displaying average speed

11 Displaying maximal speed

Displaying the maximal speed measured since the latest update of the device.

Display	Function
F 1 - F 999	Displaying maximal speed.

12 Distance Alert (Default: 500m)

Recommended: 750 m on freeways and 250 m in cities.

Display	Function
d 15t	Displaying Distance Alert menu.
250 - 750	Setting Distance Alert

13 Changing unit of speed (Default: km/h)

With this menu, you can change the unit of speed between km/h and mph.

Display	Function
H 1	Changing unit of speed to km/h.
H 2	Changing unit of speed to mph.

14 Key sound (Default: ON)

Sound of the keys can be turned on or off.

Display	Function
1 ON	Key sounds: ON
1 OFF	Key sounds: OFF

15 Detecting X-band (Default: OFF)

Here, you can turn on or off the function, whether the attachable Radar Detector module should detect the X-band or not.

Display	Function
<i>r 1.o n</i>	X-band: ON
<i>r 1.o F</i>	X-band: OFF

16 Detecting K-band (Default: OFF)

Here, you can turn on or off the function, whether the attachable Radar Detector module should detect the K-band or not.

Display	Function
<i>r 2.o n</i>	K-band: ON
<i>r 2.o F</i>	K-band: OFF

17 Detecting KA EURO-band (Default: ON)

Here, you can turn on or off the function, whether the attachable Radar Detector module should detect the Ka-band or not.

Display	Function
<i>r 3.o n</i>	Ka Euro-band: ON
<i>r 3.o F</i>	Ka Euro-band: OFF

18 Boot Tone (Default: OFF)

Here, you can turn on or off the function, that upon turning on, the device may greet you in the selected language or not.

Display	Function
<i>b t.o n</i>	Boot Tone: ON
<i>b t.o F</i>	Boot Tone: OFF

19 Software version

In this menu, you can check the software version number of the device.

Display	Function
S 150	Displaying software version number.

20 Database version

In this menu, you can check the database version number of the device.

Display	Function
1208	Displaying database version number.

21 User Coordinates

In this menu, you can check the saved User Coordinates.

Display	Function
U 01-U 50	Displaying Used Coordinates from 1 to 50, with GPS coordinates.

22 Factory Reset

Here, you can delete every User Coordinate and restore default settings.

Display	Function
rESE	Deleting User Coordinates and restoring default settings.

AUDIO AND VISUAL SIGNALS

DISPLAY	DESCRIPTION	SOUND
Turning On		
1	<i>Srch</i> Searching for GPS signal	If the Boot Tune function is activated: "Fasten your seat belt."
While driving (if there are no other signals displayed)		
2	<i>130</i> Current Speed	Unit: based on settings No sound signal
In case of stationary car (if there are no other signals displayed)		
3	<i>12:00</i> GPS time	No sound signal
Closing on Fixed Speed Camera (below speed limit)		
4	<i>-200</i> Remaining distance	Warning! Fixed Camera ahead!
Closing on Fixed Speed Camera (above speed limit)		
5	<i>-200</i> Remaining distance	Slow down, Fixed Camera ahead!
Closing on Section Control		
6	<i>-200</i> Remaining distance	Warning! Section Zone ahead!
Closing on Red Light Camera		
7	<i>-200</i> Remaining distance	Warning! Red Light Camera ahead!.
Closing on Dangerous Zone		
8	<i>-200</i> Remaining distance	Warning! Dangerous Location ahead.

	DISPLAY	DESCRIPTION	SOUND
APPROACHING TO USER POINT			
9	U 0 1	User Coordinates	Warning, User Point ahead!
Creating new User Coordinate			
10	Fdd	Add	User Point added
Detecting X-band			
11	r 1 1	X-band level 1	X-band + beep sound
Detecting K-band			
12	r 2 2	K-band level 2	K-band + beep sound
Detecting KA EURO-band			
13	r 3 3	Ka-band level 3	Ka EURO-band + beep sound

d) Downloading the Detector's user manual and application for the software and database updates

The software and database update of the device, as well as all regarding information, is available at our homepage.

4. SPECIFICATIONS

- **Power supply:** DC 12-24 V
- **Size:** 55 x 87 x 16 mm

5. MAIN FEATURES

- Customizable alarm system.
- Free updates for the GPS database.
- Detecting Fixed Speed Cameras.
- Detecting Radar signals (with the optional Radar Detector Module).
- Smart Mute.
- Displaying the current speed.
- Radar band detection that can be switched on or off (X-band, K-band, KA-band).
- Displaying current average speed.
- Displaying maximum speed.
- Smart Radar Activation.
- Boot Tune.
- 1 year warranty.

6. WARRANTY

If the equipment is used properly, a 1-year warranty is ensured with the product, which is initiated from the purchase date and can only be availed 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 overspeedings. 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. Please, read the user manual thoroughly, to maximize the efficiency of the device!

Attaching the Radar Detector module

(Additional equipment, the basic package does not include it)



1. PURPOSE OF THE ATTACHABLE RADAR DETECTOR MODULE

The purpose of the Radar Detector Module is to increase the effectiveness of the GPS Detector, by detecting the mobile radar speed traps. The two device together helps the driver noticing the traffic dangers to ensure the safe driving.

2. OPERATION OF THE RADAR DETECTOR MODULE

The Radar Detector is turned on upon ignition, alongside with the GPS Detector. When the Radar Detector identifies a radar signal, the GPS Detector warns the driver in the selected language; displays the type of the signal (from 1 to 7) and indicates the distance with a beeping sound. The more frequent the beeping sound, the closer the speed trap is.

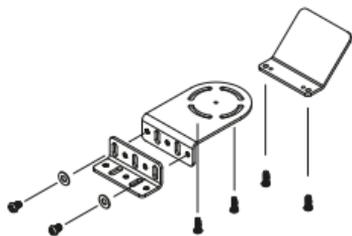
If the Smart Mute option is enabled, the device gives warning only if the driver is overspeeding.

By enabling the Smart Radar Activation feature, the number of false alarms can be decreased, because the device will only signal upon closing on a speed trap that is in the GPS database.

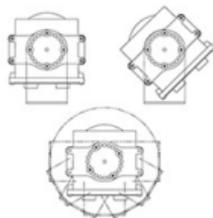
3. INSTALLATION

a) Accessories of the Radar Detector Module

Mounting brackets, screws

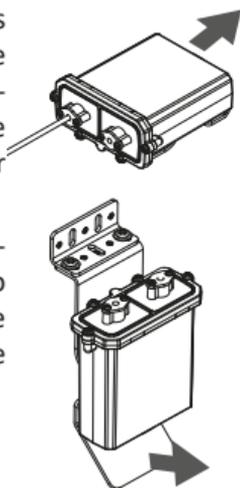


Positioning the module



b) Fastening the device

- Remove the bumper lattice and extensions or simply remove the whole bumper from the car. Choose an appropriate place for the device behind the bumper. Ensure that the device can be placed there horizontally with its sensor facing forward.
- If the horizontal positioning is unavailable because of the lack of space, use the bracket to fix the device vertically. In this case, use the deflector to ensure that the radar signals are received horizontally by the detector.



- After deciding between the horizontal or vertical placement, screw the bracket together (with or without the deflector), then mount the device to the bracket. The device can be placed into the lattice of the front bumper as well, because the detection range is 180°.
- Metallic elements may disturb the radar detection, therefore if the front bumper is made of metal, the detector should be placed into the grille.

c) Setting the device up

- Connect the jack plug of the Radar Detector module into the OPT socket of the GPS Detector.
- By pressing and holding the MODE button for 4 seconds, the Radar Detector Module can be turned on or off, which is indicated with a displayed text and a beeping sound.



4. USE OF THE RADAR DETECTOR MODULE

After connecting the module to the GPS Detector, the device is ready to use.

Warning! The Radar Detector Module is only functional with the GPS Detector.

When the Radar Detector identifies a radar signal, the GPS Detector warns the driver in the selected language; displays the type of the signal (from 1 to 7) and indicates the distance with a beeping sound. The more frequent the beeping sound, the closer the speed trap is.

If the Smart Mute option is enabled on the GPS Detector (vid: p. 9, **2**), “Smart Mute”), the device gives warning only if the driver is overspeeding.

By enabling the Smart Radar Activation feature (vid: p. 10, **8** “Smart Radar Activation”), the number of false alarms can be decreased, because the device will only signal upon closing on a speed trap that is in the GPS database. **Warning!** This feature is only available in Hungary!

4. MAIN FEATURES

- Stealth radar detecting receiver
- 180° range of detection
- Smart Mute feature
- Smart Radar Activation
- Waterproof
- 1 year warranty

5. SPECIFICATIONS

X-band: 10.525 GHz \pm 50 MHz **Ka EURO-band:** 34.0 GHz,
K-band: 24.150 GHz \pm 100 MHz 34.3 GHz, 34.7 GHz, 35.5 GHz

