

***STINGER***

DRIVING FREEDOM

Freedom Laser

User manual

English

## Legality

Many countries in the world have their own, unique regulations regarding drivers being alerted to, and protected from, speed traps. Depending on the country, citizens may or may not have the freedom to receive information concerning speed traps and to be alerted accordingly. The rules regarding citizens having the liberty to freely receive the information from laser speed trap guns often differ per country.

In order to offer its products to car drivers throughout the world (like in the so called “common market” of the E.U., where the laws vary widely per country, as well as in many other countries and states on our planet), Stinger, in certain markets, only supplies versions of the Freedom Laser that are incapable of certain functionalities. Laser Alerting and/or LaserShield® may not be available on those versions.

Please remember that it is and always will be your personal responsibility to be aware of and abide by the locally applicable laws. Therefore, please always thoroughly check local legislation before first using your Freedom Laser. If you are driving in a country where you do have the freedom to use Laser Alerting and/or LaserShielding you can download and install the software appropriate for that country.

Of course you can later delete this (new) functionality easily (see chapter 5), in order to completely stay in compliance with local legislation whenever entering a jurisdiction that does not allow for one or more of the above mentioned functionalities.

Please be aware that all features and functionalities described in this manual are subject to the presence of the corresponding hardware modules.

**Note:** Under no circumstance does your Stinger constitute a license to exceed the posted speed limits. Alerts from your Stinger serve as an effective reminder to mind your speed. Always drive responsibly and pay full attention to traffic.

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## Important Safety Instruction

### Special Caution

The Stinger Freedom Laser Transmitter, may transmit a laser beam that can be harmful to sight. Never, under any circumstances look at the sensor while it is operating and / or it is connected to a power supply. This is especially true for looking into the Laser Transmitter from up close, or through any kind of optical lenses!

### Laser safety

The Stinger Freedom Laser has been tested and classified as a class 1 laser product in accordance to European and international eye safety regulations EN 60825-1 (2014) and IEC 60825-1 (2014) under normal operating conditions and those of single fault failure.

*Definition:* Class 1 laser products are safe under any reasonably foreseeable conditions of operation, but may be hazardous if a person employs optics within the beam. An outer transmitter of the Freedom Laser is labeled in accordance to regulations.

### IMPORTANT SAFETY INSTRUCTIONS, READ BEFORE OPERATION

Do not plug any third party equipment into any of the sockets in the Laser Center, and do not connect any part of the Freedom Laser to third party equipment. Doing so may cause fire or damage to the unit, and voids warranty.

Use of controls or adjustments or performance or procedures other than those specified herein may result in hazardous radiation exposure.

### Maintenance

The Freedom Laser unit is basically maintenance free, however, you should check periodically that lenses on outer sensors are clean. You can gently clean them with any water based means or using a simple wipe.





## Contact and support

For more information, video manuals and updates for your Stinger go to [www.stinger.com/getstarted](http://www.stinger.com/getstarted)

If, at any point, you have questions regarding your Stinger or Stinger dealers, please contact us:

### Head Office

Phone	+31 252 - 41 80 95
Website	<a href="http://www.stinger.com">www.stinger.com</a>
Email	mail@stinger.com

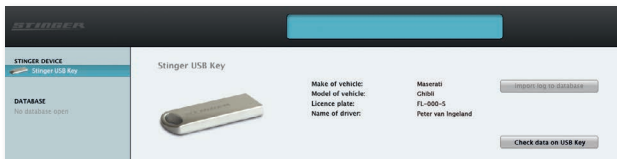
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## 1. Keeping your Stinger up-to-date

To optimally benefit from your Stinger we suggest you use the Stinger Desktop application to check for updates at least once a month. For updating, use your USB key.

1. When you start using your Stinger USB key for the first time, 'match' the USB key with Freedom Laser by connecting it to the USB port of your Freedom Laser (located in the interior of your car) while it's on.
2. Then connect the USB key to your Mac or PC.
3. Launch the Stinger Desktop application on your Mac or PC. The app will automatically check for any available updates. If you have not yet installed the Stinger Desktop application, you can download it from [www.stinger.com/downloads](http://www.stinger.com/downloads)

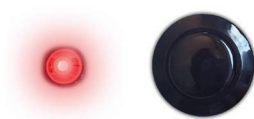


4. Follow the instructions shown on the screen of the Stinger Desktop application.
5. Next, connect the USB key to the USB port of your Stinger Freedom Laser in the car again.
6. Make sure your Freedom Laser is on. The installation will begin automatically. Your Freedom Laser's display will be flashing while updating.

## 2. Using your Freedom Laser

Using your Freedom Laser is extremely simple. It will automatically start up each time you turn on the ignition of your car and shut down when you turn the ignition off again.

The Freedom Laser works a bit differently depending on the user interface you have installed in the dashboard of your car:



LED with button



Strip with touch buttons

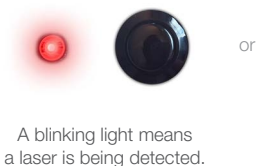
This manual addresses both interfaces.

### 3. Laser Protection

Freedom Laser protects you against laser speed traps\*. In such traps a measuring device will fire a laser beam at your car and use the reflections to determine your speed.

#### Laser Alerting\*

Your Stinger can instantly see a laser being fired at you, often even when cars ahead of you are being targeted, and instantly alert you with both audible and visual warnings:



#### Sound

While getting an alert, you can mute or adjust (Strip) the sound:



If up, 'mute' will also instantly kill the LaserShield.



## LaserShield®\*

When being fired at with laser, your Stinger can instantly deploy a shield of invisible light: LaserShield®. It can (temporarily) make it nearly impossible for laser guns to measure your speed.

LaserShield® is so advanced that it can even block modern side-lasers (positioned next to the road, for instance installed into the guard rail). For this the optional Stinger Side Laser is required.



A solid light (during an alarm) indicates a detected laser beam is being blocked by the LaserShield

A red solid light means a detected laser beam is being blocked by LaserShield

## Shield-up time

LaserShield® will stay up for a default time of 4 seconds after the initial alert. This so called Shield-up time is adjustable in the Settings menu, in case you are using the Strip display (not LED). After the Shield-up time runs out, the shield will automatically go down, allowing a laser a 'second shot' at measuring your speed. At speeds below ca. 30 km/h or 19 mph, the Shield will always be down.

## 4. SafetySignals

Freedom Laser also incorporates an ingenious safety system. At great distances it is able to pick up SafetySignals and alert you - as well as fellow Stinger users in the area - automatically and in real-time for potentially dangerous traffic situations, caused by heavily braking traffic.



A blinking light can also indicate  
a SafetySignal alert

or



A yellow blinking light means  
Freedom Laser is receiving a SafetySignal

## 5. Deleting Laser Alerting and LaserShield®

Many countries have their own, unique regulations when it comes to drivers being alerted for - or protected from - speed traps. In some countries laser can be freely blocked, in others it's been made illegal. Always thoroughly check local legislation before first using your Freedom Laser. Please remember it is your responsibility to know, and abide by, the law.

You can erase Laser Alerting and LaserShielding in order to completely stay in compliance with local legislation whenever entering a country that does not allow for Laser Alerting.

**On the Single LED** erasing is achieved by pressing and holding the button for 4 seconds or longer until the LED stops blinking.

**On the Strip** erasing is achieved by simultaneously holding - and + for 3 seconds or longer. After you have heard the “wiping” sound as a confirmation, the erased functionalities have been permanently deleted.

A new software download and installation (available where allowed) is required in order to re-install those functionalities of your Freedom Laser.



Mute

Press the Mute button  
for at least 4 seconds

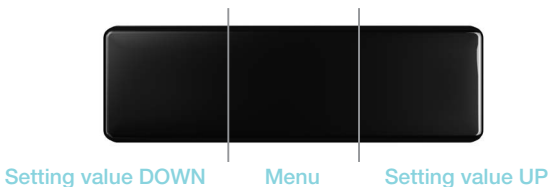
or



Hold both - and +  
for at least 3 seconds

## 6. Changing Settings with the Strip interface

The menu of Freedom Laser with the Strip is speech assisted. To enter the menu, just touch the **Menu** button area when Freedom Laser is not giving any alerts. The Strip will then light up white.



By repeatedly pressing the **Menu** button you can select the various **Settings**. You will hear which setting and its accompanying option can then be altered.

With the **DOWN** and **UP** buttons you can cycle through the **Options** for each setting.

After changing the setting, press the **Menu** button to confirm and go to the next setting.

After about 8 seconds of inactivity, at the end of the menu settings, or in case of an alert, you will automatically leave the Settings Menu.

## The setting menu

By repeatedly pressing the Menu button you can select a **Setting**. The order of the settings with their accompanying **Options** is listed bellow.

<b>Setting</b>	<b>Option</b>
<b>Laser mode</b>	Receive only (only laser alerts, no shield) or Receive and Shield.
<b>Shield-up time</b>	Number of seconds the LaserShield will remain up when triggered.
<b>SpeedSense</b>	Set the speed under which your Stinger won't trigger.
<b>Brightness</b>	Set the brightness of the Strip's backlight. NOTE: the lowest value (Dark) will prevent visual alerts when encountering a speed trap.
<b>Side protection</b>	When Side Laser Protection is installed, you can turn the Side-Shield on or off.
<b>Start-up sound</b>	Enable or disable the start-up and the shutdown sound.
<b>Version</b>	Tells the Freedom Laser's software version.

Note: settings may differ depending on the software version

## 7. Changing Settings with the LED interface + button

With the LED interface you will only be able to change one setting: the audio volume.

You can adjust this volume only when the Freedom Laser isn't generating an alert. To begin, press the button once. Freedom Laser will sound its current volume. Quickly press the button again to change the volume one step at a time. Repeat until you have reached your desired volume. Pause for more than 2 seconds and press the button again to start changing the volume in the opposite direction. Volume can be set in steps of 1, ranging from 0 (no sound) to 10 (maximum sound).

**TIP** Pressing the button once will also serve to indicate if Freedom Laser is on and if the LED and speaker are working.

Freedom Laser will automatically turn on and off along with your car. If you want to manually switch it off, press the button for about 2 seconds and let go.

**Do not** press the button for longer than 3 seconds or the Laser Alerting and LaserShield functionalities will be deleted (see chapter 5).

**ATTENTION:** Freedom Laser will not be turned on automatically upon starting your car if you have manually turned off Freedom Laser first. You will have to manually turn Freedom Laser on again by touching the Strip or pressing the button.

For more information, video manuals and updates  
for your Stinger visit

[www.stinger.com/getstarted](http://www.stinger.com/getstarted)