



**LASER ALERT™**

**MOBILE LASER GUN DETECTOR**



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# LASER ALERT™

# Fitting Guide

## MOBILE LASER GUN DETECTOR

### How mobile Laser Traps operate.

Police Laser Guns work by firing a pulsed beam of light at a vehicle which then measures the time taken for it to return, this can take as little as a third of a second. The beam is very narrow, this allows the enforcement officer to be very precise in which vehicle they want to target. From a motorway bridge any vehicle in a line of traffic could be targeted. The beam fired from the gun is of a conical shape, the further away from the gun, the wider the beam. This causes great problems when fitting a Laser detector to a vehicle, as complete coverage is very difficult to achieve at short range, with only one sensor. (Auxiliary number plate sensor available separately – please contact us for details).

### How the enforcement officer chooses which vehicles to target.

Even though the police have all the high tech equipment for measuring and recording the speeds of motorists, it is down to the officer using the equipment to choose which vehicle to target. A lot of people believe that the police are checking every vehicle as they go by, this is not the case. Guidelines state that an officer can only measure the speed of a vehicle that they believe to be exceeding the posted limit. This is often why a driver with a Laser detector fitted **may see a gun or van nearby, but will not get a warning alarm** as they drive by. The majority of the time they are targeting the number plate of the vehicle as this is normally vertical to the road, but any part of the vehicle could be used.



## Where is the best place to mount a Laser detector?

Tests with Speed Enforcement teams have shown that the most effective place for mounting a single detector is low down on the front windscreen. Above 200 metres this has proved to warn every time the vehicle was targeted. (tested with a standard saloon car). If the Laser gun is targeting your number plate at less than 200 metres it is likely that a dashboard mounted LASER ALERT **WILL NOT** detect the signal. At 200 metres the beam of the Laser can be as little as 200 mm.

## Warning Modes

When picking up a signal from the front – The **Front** LED will stay on and **Rear** and **Aux** will toggle.

From the rear – The **Rear** LED will stay on and **Front** and **Aux** will toggle.

From the Auxiliary sensor – The **Aux** LED will stay on and **Front** and **Rear** will toggle.

## Technical Specifications

Detection Range– 2 Km

Power Supply – 12VDC

Display Type – Ultra Bright LED Indicators

Dimensions – 30mm x 105mm x 53mm

Cable Length – 2.5 metres

Fuse Rating – 3A

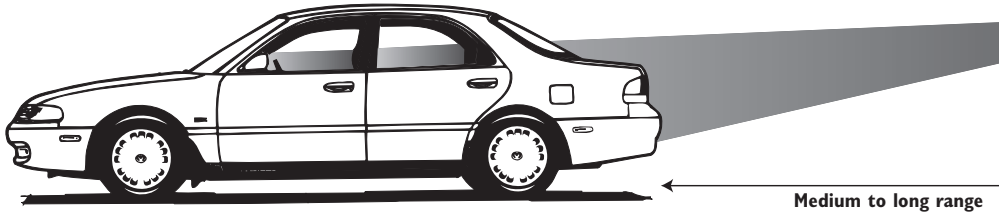
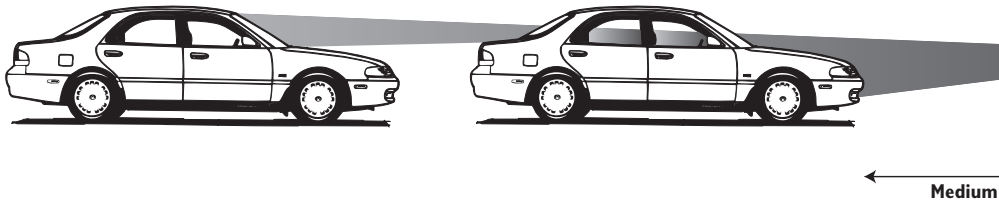
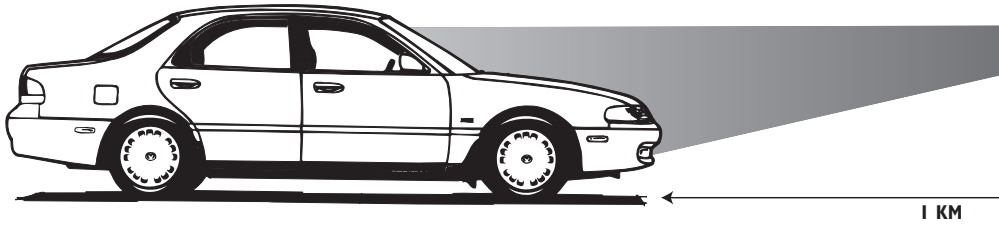
**Warning** No LASER ALERT or associated items should be attached to, or placed near the airbag module. All wiring must be tucked away as not to interfere with any of the vehicle's controls.

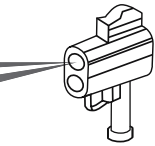
**Note** The directors of Blackspot Interactive Ltd. sell LASER ALERT as a road safety enhancement device. Driving within the speed limits at all times and within the limitations of the road conditions and your abilities is paramount. The directors of Blackspot Interactive Ltd. take no responsibility for the use of LASER ALERT for other purposes than those stipulated.

**One Year Warranty** Your unit is guaranteed for one year from date of purchase from all defects that occur with normal use. If your unit fails to perform as specified in these instructions, please return using registered post directly to Blackspot Interactive Ltd. with the following:

1. The problem you are encountering
2. Proof of purchase
3. Date of purchase
4. A contact telephone number and address

Blackspot Interactive Ltd. is not liable for any incidental or consequential damages from the use, misuse, or mounting of LASER ALERT.





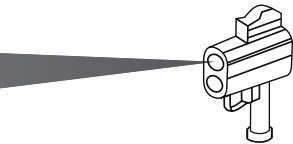
## Short Range

This highlights the difficulties of short range detection. The beam is very narrow and with a single sensor it is not possible to cover both scenarios.



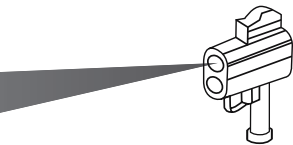
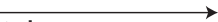
## Long Range

At long range it is not possible to choose which part of the vehicle they want to target. On some Laser Guns the sight is bigger than the vehicle. Wherever the detector is fitted is it possible to trigger it.



## Following a vehicle being targeted

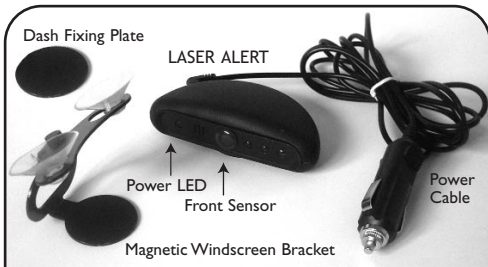
At short range it is difficult to detect, but if the vehicle in front is targeted from long to medium range it is possible to detect as long as the sensor is fitted to the front windscreen.



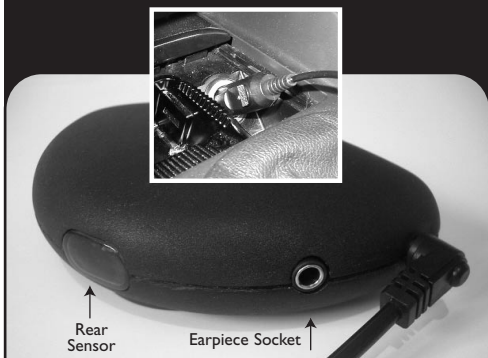
## Rear Detection

When the vehicle is targeted from the rear, the laser signal will pass through the rear windscreen and trigger LASER ALERT as long as no obstructions are in the way.

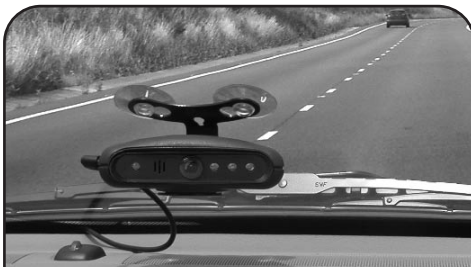




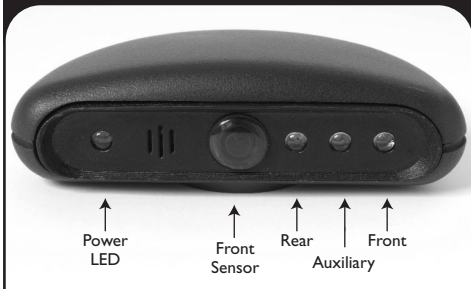
**1. Fitting LASER ALERT into your vehicle – Empty all the parts out of the box and familiarise yourself with each item.**



**3. Routing the Power Cable – Use the supplied power lead to plug LASER ALERT into your cigar lighter socket, ensuring the power cable does not interfere with any vehicle controls or airbag modules. If you use your cigar lighter for other devices, a dual adaptor may be used or LASER ALERT can be hard wired.**



**2. Positioning in the vehicle – We highly recommend that LASER ALERT is positioned in the centre of the front windscreen low down, just above the dashboard. Making sure that the windscreen wipers do not obstruct the view.**



**4. Operation of LASER ALERT – LASER ALERT will warn the user if they are being targeted from either the front, rear or from the auxiliary number plate sensor (available separately – please contact us for details).**