



SpeedSentry Traffic Camera Devices

Installation and User manual

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Setup and Management of a SpeedSentry Camera Device

Forward

Congratulations on the purchase of your new SpeedSentry speed management device! You are now the proud owner and user of proudly South African technology that aims to make our estates and roads safer places to be.

Introduction

SpeedSentry products are manufactured in two different detection technologies, namely Radar and Laser. Laser is used for the stand-alone camera units, particularly where there are multiple lanes that need to be controlled on a roadway. Our display units are all radar powered, and this technology has different set up requirements to the laser powered units.

Infra-red Night Vision

Apart from the Mini units, all SpeedSentry units are fitted with infra red illuminators that enable video to be taken at night. Due to the constraints of the technology, these pictures will generally show the headlights and the number plates of the vehicle.

Good night video example



Poor/ Old/ Damaged Number Plate



No Number Plate



Please note that the capture of the number plate at night is dependent on the vehicle being fitted with a legally compliant South African or Neighbouring State number plate. If the number plate is defaced in any way, the reflective surface may be damaged, and this will adversely affect the quality of the image. In case of a new vehicle or a vehicle where the number plate is missing, no image will be captured.

Setup of your SpeedSentry Device

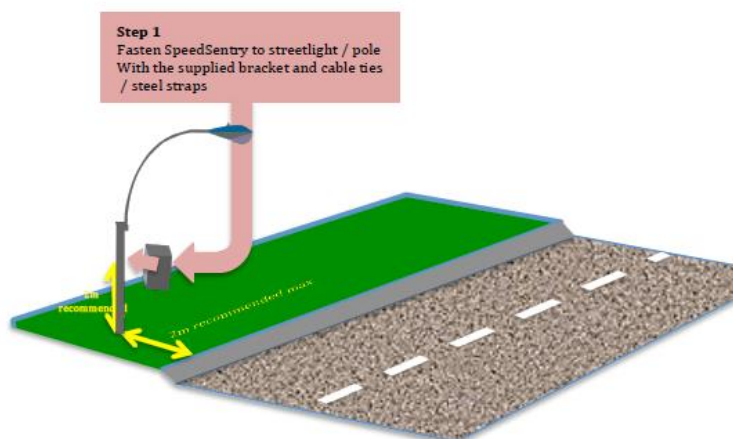
The SpeedSentry devices are fitted with high resolution short range Infra-Red cameras. Optimal images are captured within 20m of the unit, particularly at night, and it is important that the units are correctly set up to avoid problems with video quality and false readings.

Setup of Laser Units

Laser units function as a result of a very narrow beam of laser energy that is focussed along the road. This beam is no more than 30cm wide at 50m and it is important that the unit be correctly aligned to get optimal results:

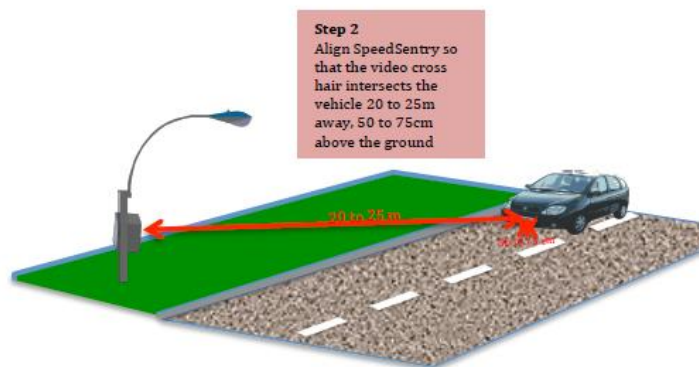
1. Step 1

Fasten the unit to the dedicated pole or streetlight as indicated. Not that the optimum distance is less than 2m high and less than 2m from the edge of the road, although the unit will function further away / higher than this.



2. Step 2

Use the preview function under the Service menu (See attached software guide) to align the unit to the optimum position for the laser to pick up oncoming vehicles. The camera is most effective at distances between 10 and 20m, especially at night, so it is important to get the set up correct:

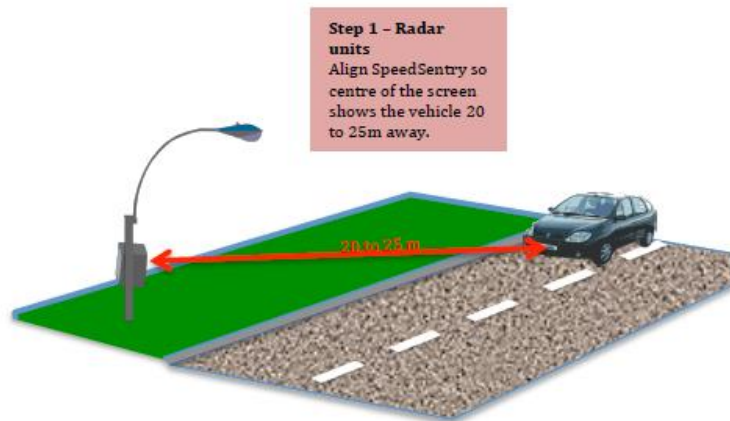


Images from a correctly set up Laser SpeedSentry unit:

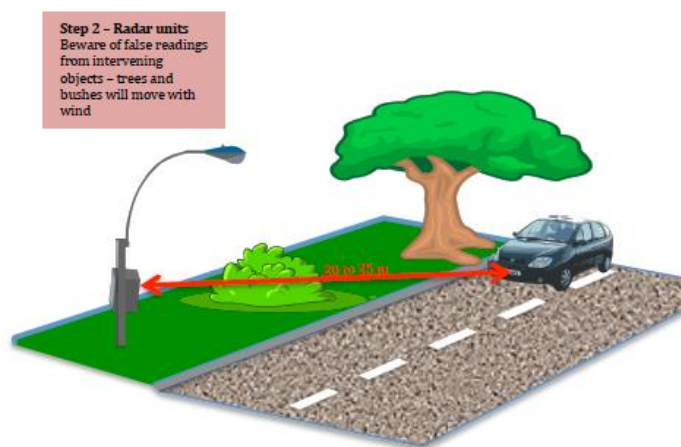


Setup of Radar Units

Radar units have a much broader beam than Laser units, although the cameras are identical. The radar is sensitive to false readings from movement within the detection area. There is no cross hair on the Radar screen, although it is advisable to get the centre of the screen roughly aligned with a vehicle at 20 to 25m range:



This is all that is required to set up a radar unit. CAUTION – Be aware of objects that can cause false readings or returns within the view of the camera / radar unit:



Common causes of false readings:

- Trees
- Bushes
- Water Sprays or Sprinklers
- Fluorescent Lights
- HT Overhead Electrical Power Lines
- Air conditioning fans / other rotating objects within the range of the radar.

Example of a well set up radar unit:



Version Control

Version	Date	Changes
V1.0	8 August 2016	Original Document
V2.0	31 July 2019	Re-design