

14/8327

[Redacted]

17 February 2015

Dear Mr Franco

I refer to your Official information Act request of 5 December 2014. The answer to each of your questions is as follows:

1. *What type of equipment is used to enforce the traffic speed?*

See table below.

2. *What make and model is the equipment in question?*

See table below.

3. *What is the accuracy (\pm km/h) of each unit?*

See table below.

Speed Measuring Devices as at 12/12/2014			
Type	Model	Manufacturer	Accuracy
Radar	Stalker DSR	Applied Concepts Inc	± 0.6 km/h
Radar	Stalker DUAL	Applied Concepts Inc	± 0.6 km/h
Laser	Pro II	Kustom Signal Inc	± 0.6 km/h
Laser	Pro III	Kustom Signal Inc	± 0.6 km/h
Laser	Stalker Lidar	Applied Concepts Inc	± 0.6 km/h
Laser	Stalker Lidar LR	Applied Concepts Inc	± 0.6 km/h
Laser	Stalker Lidar XLR	Applied Concepts Inc	± 0.6 km/h
Static Camera	Autopatrol SP-200	American Traffic Systems	± 0.6 km/h
Mobile Camera	REDFLEXradarcam NZTMR	Redflex Traffic Systems PTY Ltd	± 1 km/h
Static Camera	REDFLEXspeed radar NK7	Redflex Traffic Systems PTY Ltd	± 1 km/h

Safer Communities Together

CALIBRATION SERVICES

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4. *What is the range (meters) of each unit for the specified accuracy?*

Range has no effect on accuracy. The range depends on the size of the vehicle and the amount of signal reflected off it. For example on a straight road a vehicle the size of a Toyota Corolla could be detected at 1400m, while a small truck will be detected at 1600m.

5. *What is the locking time of each unit?*

Radar and laser devices do not have automatic locking (it is not permitted by NZ Police). They are manually locked by the operator, who will make his own decision as to when to lock on a vehicle.

In relation to speed cameras, the locking time depends on the aperture of the camera and can be anywhere between 1/100th of a second and 1/400th of a second.

6. *What is the calibration frequency of the units in question?*

Section 146 of the Land Transport Act 1998 requires all speed measuring devices be calibrated every 12 months.

7. *Who does the calibration of the units?*

Police personnel authorised by the Commissioner of Police calibrate all speed measuring devices operated by Police employees.

8. *What is the calibration process (if known)?*

There is an ISO 17025 approved calibration process for each type of speed measuring device. Please advise which device type you are interested in, and a copy can be forwarded to you.

9. *By what quantity on average are the units in question out of the specification by the time they are calibrated?*

Zero.

10. *What measures are in place to prevent LIDAR based equipment from being misused or abused by operators (specifically how the slip effect/panning/sweeping errors are prevented)?*

This is covered during operator training. If an operator sweeps a laser, no reading will be displayed. A copy of Stalker LIDAR EU Model Operator Manual is attached.

11. *What is the training process for the operator of the units in question?*

Staff must complete written and practical training before being qualified to operate speed detection equipment. A copy of the Speed Detection Equipment Operators Manual is attached.

12. *Is it possible to get a copy of the user manual of each model in-use?*

A copy of the laser operator manual is attached.

Yours Sincerely



Inspector Mark Stables
Police Calibration Service