

## Calibration Report

<b>Report Reference Number</b>			TC150042
<b>Test Scope</b>			Certification of Loop Speed Measuring Device
<b>Date of Issue</b>			12/01/2015
<b>Date of Test</b>			07/01/2015
<b>Compiled by</b>	[REDACTED]	[REDACTED]	Calibration Engineer
<b>Approved by</b>		[REDACTED]	Calibration Engineer
<b>Testing Laboratory</b>			
SGS Australia Consumer Testing Services, NATA Accredited Laboratory No. 18628, Electrical Testing			
2/2 - 4 Clarice Road, Box Hill South, VIC 3128			
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<b>Applicant</b>			
ACT Traffic Camera Office			
13-15 Challis Street, Dickson, ACT 2602			
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## Summary of Results

The device under test is Compliant with the requirements of SGS test procedure TSP0615.

### Comments:

- A compliant result indicates that the measurement results fall within specification limits by an amount at least equivalent to the uncertainty of measurement.
- No adjustments were performed on the device.

## Device Under Test Description

### Description:

[REDACTED]

Item	Model/Part No.	Serial No
Camera	[REDACTED]	[REDACTED]
Loop Card 1	[REDACTED]	[REDACTED]
Loop Card 2	[REDACTED]	[REDACTED]

Loop Card 1 Software Version	[REDACTED]	[REDACTED]
Loop Card 2 Software Version	[REDACTED]	[REDACTED]
Software Version	[REDACTED]	[REDACTED]

### Condition:

- The device under test was found to be in a satisfactory physical condition.

## Test Equipment

Item	ID	Calibration Due Date
[REDACTED]	[REDACTED]	[REDACTED]

## Environmental Conditions

The ambient temperature and humidity at the time of test are shown below:

Ambient temperature (°C) +/-1 °C	Relative humidity (%) +/-4%
22.1	48.6

## Test Results

Lane 1

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	199
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240

Lane 2

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	200
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240



Lane 3

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	99
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	200
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240

## Lane 4

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	149
150.0	150
150.0	150
200.0	200
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240

## Tamper Evident Seals

The device under test was sealed with SGS tamper evident seals 8465.

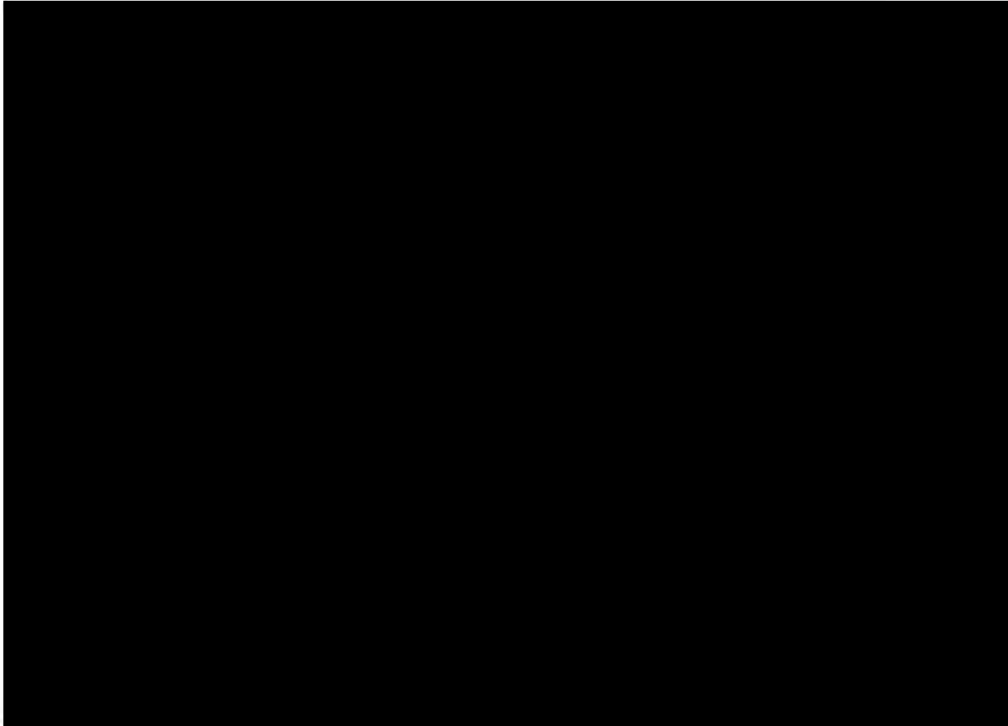


Photo 1

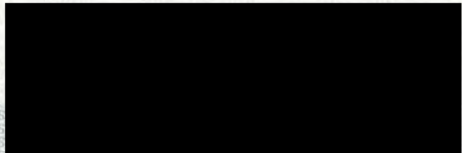






**CERTIFICATE OF TEST OF A SPEED MEASURING DEVICE IN ACCORDANCE WITH THE ACT ROAD TRANSPORT (SAFETY AND TRAFFIC MANAGEMENT) REGULATION 2000 IN FORCE UNDER THE ACT ROAD TRANSPORT (SAFETY AND TRAFFIC MANAGEMENT) ACT 1999**

**Device Description:**



**Manufacturer:**

**Permanent Distinguishing Marks:**



**Date of test:** 7/01/2015

**Date of expiry of this certificate:** 7/01/2016

I hereby certify that:

- (1) this laboratory is a testing authority as described in chapter 4 of the *ACT Road Transport (Safety and Traffic Management) Regulation 2000*
- (2) the tests were conducted by an approved person employed within the testing authority to test and seal traffic offence detection devices in accordance with chapter 4 of the *ACT Road Transport (Safety and Traffic Management) Regulation 2000*
- (3) this device was found to operate in accordance with the manufacturer's specifications for speed measurement. All readings of speed or speeds of 100km/h and under were accurate within a tolerance of 2km/h; and for speeds over 100km/h were accurate within a tolerance of 2%.

Full details are given in SGS Australia Report TC150042

**Signature:**



**Date:** 07/01/2015

**Name of signatory:**



**Position of signatory:** Calibration Engineer

**Testing Laboratory:** SGS Australia Pty Ltd, 2/2-4 Clarice Road, Box Hill South, Victoria. NATA Accredited Laboratory No. 18628, Electrical Testing

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## Calibration Report

<b>Report Reference Number</b>	TC150897	
<b>Test Scope</b>	Certification of Loop Speed Measuring Device	
<b>Date of Issue</b>	17/12/2015	
<b>Date of Test</b>	14/12/2015	
<b>Compiled by</b>		<div style="background-color: black; width: 80px; height: 20px; margin: 0 auto;"></div> Calibration Engineer
<b>Approved by</b>		<div style="background-color: black; width: 80px; height: 20px; margin: 0 auto;"></div> Calibration Engineer
<b>Testing Laboratory</b>		
SGS Australia Consumer Testing Services, NATA Accredited Laboratory No. 18628, Electrical Testing		
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## Summary of Results

The device under test is Compliant with the requirements of SGS test procedure PR-TE-615-1.

### Comments:

- A compliant result indicates that the measurement results fall within specification limits by an amount at least equivalent to the uncertainty of measurement.
- No adjustments were performed on the device.

## Device Under Test Description

### Description:

[REDACTED]

Item	Model/Part No.	Serial No
Camera	[REDACTED]	[REDACTED]
Loop Card 1	[REDACTED]	[REDACTED]
Loop Card 2	[REDACTED]	[REDACTED]

Loop Card 1 Software Version	[REDACTED]	[REDACTED]
Loop Card 2 Software Version	[REDACTED]	[REDACTED]
Software Version	[REDACTED]	[REDACTED]

### Condition:

- The device under test was found to be in a satisfactory physical condition.

## Test Equipment

Item	ID	Calibration Due Date
[REDACTED]	[REDACTED]	[REDACTED]

## Environmental Conditions

The ambient temperature and humidity at the time of test are shown below:

Ambient temperature (°C) +/-1 °C	Relative humidity (%) +/-4%
23.4	42.5

### Test Results

Lane 1

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	200
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240

Lane 2

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	200
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240



Lane 3

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	199
200.0	199
200.0	199
240.0	239
240.0	239
240.0	239

Lane 4

Simulated Speed (km/h)	DUT Indicated Speed (km/h)
20.0	20
20.0	20
20.0	20
40.0	40
40.0	40
40.0	40
50.0	50
50.0	50
50.0	50
60.0	60
60.0	60
60.0	60
70.0	70
70.0	70
70.0	70
80.0	80
80.0	80
80.0	80
100.0	100
100.0	100
100.0	100
150.0	150
150.0	150
150.0	150
200.0	200
200.0	200
200.0	200
240.0	240
240.0	240
240.0	240

## Tamper Evident Seals

The device under test was sealed with SGS tamper evident seals A00708.

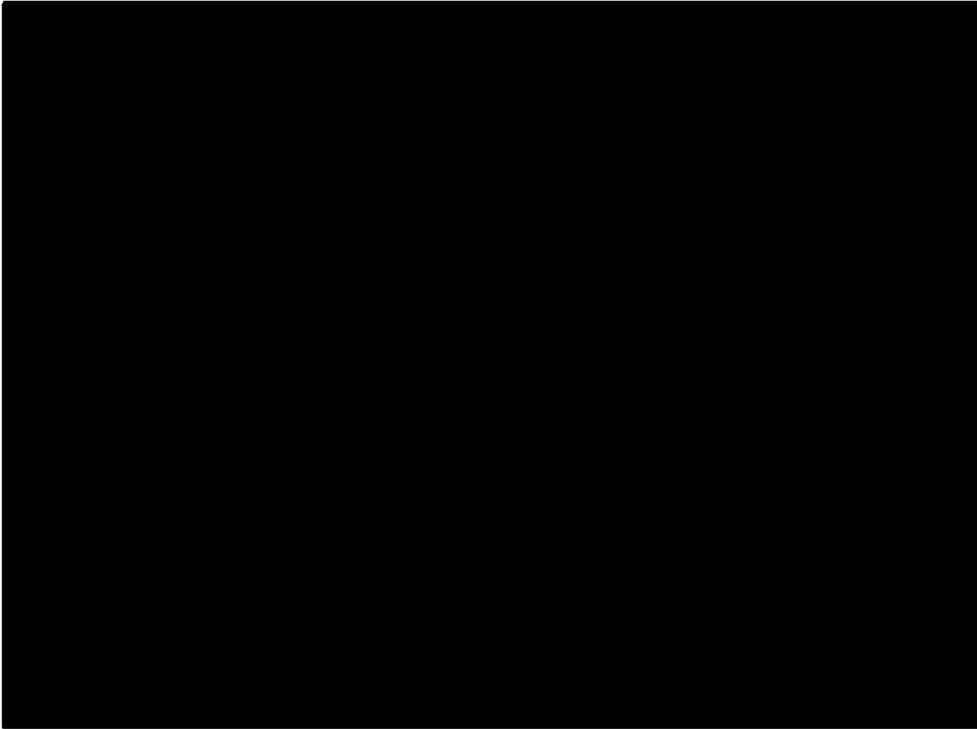
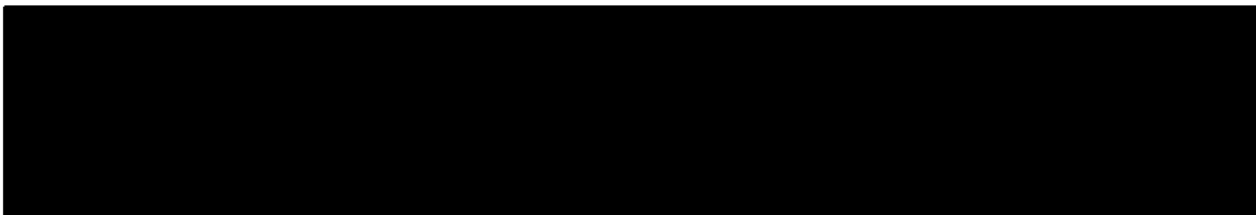


Photo 1







## CERTIFICATE OF TEST OF A SPEED MEASURING DEVICE IN ACCORDANCE WITH THE ACT ROAD TRANSPORT (SAFETY AND TRAFFIC MANAGEMENT) REGULATION 2000 IN FORCE UNDER THE ACT ROAD TRANSPORT (SAFETY AND TRAFFIC MANAGEMENT) ACT 1999

**Device Description:**



**Manufacturer:**

**Permanent Distinguishing Marks:**



**Date of test:** 14/12/2015

**Date of expiry of this certificate:** 14/12/2016

I hereby certify that:

- (1) this laboratory is a testing authority as described in chapter 4 of the *ACT Road Transport (Safety and Traffic Management) Regulation 2000*
- (2) the tests were conducted by an approved person employed within the testing authority to test and seal traffic offence detection devices in accordance with chapter 4 of the *ACT Road Transport (Safety and Traffic Management) Regulation 2000*
- (3) this device was found to operate in accordance with the manufacturer's specifications for speed measurement. All readings of speed or speeds of 100km/h and under were accurate within a tolerance of 2km/h; and for speeds over 100km/h were accurate within a tolerance of 2%.

Full details are given in SGS Australia Report TC150897

**Signature:**



**Date:** 14/12/2015

**Name of signatory:**



**Position of signatory:** Calibration Engineer

**Testing Laboratory:** SGS Australia Pty Ltd, 2/2-4 Clarice Road, Box Hill South, Victoria. NATA Accredited Laboratory No. 18628, Electrical Testing

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