

22 August 2023

Jesse
fyi-request-23581-9ca7adfd@requests.fyi.org.nz

Dear Jesse

I refer to your Official Information Act 1982 (OIA) request dated 25 July 2023 for information regarding the static camera located in Mokoia.

You requested:

I am a citizen of New Zealand requesting all calibration and testing documentation for the speed camera located in or near Mokoia, SH3.

Please find enclosed the following:


- Certificates of accuracy (CoA) and testing reports for the NK7 camera from 2018-2023
- CoAs for the site's alignment and testing reports from 2018-2023

Please note that when a new site is created, it is standard practice to check the sites foundations after several months. Hence, you will find two CoAs for the site's alignment in 2018.

Under section 146 of the Land Transport Act 1998, all operational speed detection equipment, including safe speed cameras, radars, lasers, and vehicle speedometers are required to be calibrated annually. The responsibility for testing and certification rests with Police Calibration Services, an International Standards Accredited Laboratory, based in Wellington.

For more information on infringements, including the location of static cameras, please refer to the below address: <https://www.police.govt.nz/advice-services/infringement-services/infringements>

Yours sincerely



Aislinn Sederel
Acting Manager: Police Infringement Bureau

New Zealand Police Infringement Bureau

PO Box 9147, Wellington 6141, New Zealand.
Telephone: 04 381 0000. Call Free 0800 105 777. www.police.govt.nz



2504

Certificate of Accuracy Approved Vehicle Surveillance Equipment

Model **REDFLEXspeed radar NK7 static camera system**

Serial No **NZK7LX0554**

Manufacturer **Redflex Traffic Systems PTY Ltd**

Result of Laboratory Tests

Applied True Speed (km/h)	50	100	150	200
Measured Speed (km/h)	49	100	149	199
Doppler Radar Frequency	24.124 GHz			

I certify that I tested this Approved Vehicle Surveillance Equipment at the speeds specified in the Laboratory Tests panel above and found the device to be recording accurate speeds and distance measurements. This device has a measurement uncertainty of ± 1 km/h when measuring an unknown speed. This device was also subjected to a road test and the images produced by this camera indicated the device was functioning correctly and producing accurate speed readings.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to Section 146 of the Land Transport Act 1998 that the said device was tested on the date below and is accurate.

Signed

Officer's Name **Bruce BEHRENT**
Police Employee

Date of Test **22 Mar 2018**

Entered by	Mace
Date entered	28 MAR 2018

Test Report


- REDFLEXred-radar NK7 red light/speed camera system & Site
- REDFLEXspeed radar NK7 static speed camera system

District PNHQ		Station PCS	
Site Name		Site Code	Lab Test Date 22/3/18
Camera Serial #	554	Software Version	5.048.16.03
Temperature	21.04	Doppler Radar Frequency (GHz)	24.1245
GPS Time	13:15:41	Device Time	13:15:41
		Lab DVD #	<input checked="" type="checkbox"/>
		Range/Mapping Radar Freq. (GHz)	26.0939
		Device Time Corrected?	Yes

Simulation Test:

Applied True Speed (km/h)	50 away	50 twds	100 away	100 twds	150 away	150 twds	200 away	200 twds
Measured Speed (km/h)	49.9	49.9	100	100	149.9	149.9	199.9	199.9
Lanes (✓ or x)	A ✓	A ✓	B ✓	B ✓	C ✓	C ✓	D ✓	D ✓
200km wrong direction: Speed data captured	Yes / No		150km/h away (out of lane): Lane = 0 (U)		Yes / No			
100km/h twds (out of lane): Lane = 0 (U)	Yes / No		200 km/hr away (out of lane): Lane = 0 (U)		Yes / No			
RLC ONLY: Traffic Signal Input	RED Yes / No		AMBER Yes / No		GREEN Yes / No			

Function Test:

Vehicle Speed (km/h)	Away		Towards			
	Speed	Lane	Speed	Lane		
65 km/h	64	A	64.4	B		
100 km/h	100	A	101	B		
RLC ONLY: Offence Triggered	RED Yes / No		AMBER Yes / No		GREEN Yes / No	
Set at 22°			Laser alignment tool #			
Function Test DVD #			Vehicle Regno.		SBF501	
Speedo Calibration Unit	92		I.D.			
Testing Officer	BB4957		Q.C.			



2507

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **RAA 037**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed

Officer's Name **Bruce BEHRENT**
Police Employee

Date of Test **04 Apr 2018**



Lab Report # 2507

Entered by	<i>[Signature]</i>
Date entered	06 APR 2018

Test Report

NK8 Static Camera Site Camera Enclosure Alignment

Test Date	4/4/18
District	Central
Site Name	SH3 Mokoia
NK8 Site Code	NOFOO1

Camera S/N		Flash S/N	NZUFF2418
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Enclosure S/N	NZNK80144
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Pole Verticality	Road Front	89.09	Camera Front	89.09

Set at 22°	Laser Alignment tool (circle one)	NZRAA034	<u>NZRAA037</u>	NZRAA051	NZRAA052
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Ladder Access	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Comments	
Vegetation Clear	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Comments	

Testing Officer	1384957	QC	<i>[Signature]</i>
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2754

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **RAA 037**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed


Officer's Name **Bertrand GLORIA**
Police Employee

Date of Test **07 Nov 2018**



ENTERED BY:

[Signature]

DATE ENTERED

30 JAN 2019

TEST REPORT

**NK8 STATIC CAMERA SITE
CAMERA ENCLOSURE ALIGNMENT**

Test Date	07.11.18
District	Central
Site Name	Mokoia
NK8 Site Code	NK8 NOFOO1

Enclosure S/N	—	Flash S/N	—
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Pole Verticality (Degrees)	Road Front	89.7	Camera Front	89.9
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Set at 22°	<input checked="" type="checkbox"/>	Laser Alignment tool (circle one)	NZRAA034	<u>NZRAA037</u>	NZRAA051	NZRAA052
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Ladder Access	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Comments	
Vegetation Clear	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Comments	

Comments	
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Testing Officer	BGBJTB	QC	<i>[Signature]</i>
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102809

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **RAA 037**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements, and technical procedure CU29.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed

Officer's Name **Bruce BEHRENT**
Police Employee

Date of Test **16 Oct 2019**



NEW ZEALAND
POLICE
Ngā Pirihimana o Aotearoa

WS

102809

ENTERED BY:

[Signature]

DATE ENTERED

10 DEC 2019

TEST REPORT

**NK8 STATIC CAMERA SITE
CAMERA ENCLOSURE ALIGNMENT**

Test Date	16/10/19
District	Central
Site Name	Mokoia
NK8 Site Code	NOFOU

Enclosure S/N	<i>[Blank]</i>	Flash S/N	<i>[Blank]</i>
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Pole Verticality (Degrees)	Road Front	89.04	Camera Front	89.04
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Set at 22°	<i>[Blank]</i>	Laser Alignment tool (circle one)	NZRAA034	<u>NZRAA037</u>	NZRAA051	NZRAA052
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Ladder Access	Yes	No	Comments
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Vegetation Clear	Yes	No	Comments
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments

Testing Officer	BB4457	QC	<i>[Signature]</i>
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120081

Certificate of Accuracy Approved Vehicle Surveillance Equipment

Model **REDFLEXspeed radar NK7 static camera system**
Serial No **NZK7LX0554**
Manufacturer **Redflex Traffic Systems PTY Ltd**

Result of Laboratory Tests

Applied True Speed (km/h)	50	100	150	200
Measured Speed (km/h)	49	100	149	199
Doppler Radar Frequency	24.124 GHz			

I certify that I tested this Approved Vehicle Surveillance Equipment at the speeds specified in the Laboratory Tests panel above and found the device to be recording accurate speeds and distance measurements. This device has a measurement uncertainty of ± 1 km/h when measuring an unknown speed. This device was also subjected to a road test and the images produced by this camera indicated the device was functioning correctly and producing accurate speed readings.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to Section 146 of the Land Transport Act 1998 that the said device was tested on the date below and is accurate.

Signed


Officer's Name **Bertrand GLORIA**
Police Employee

Date of Test **06 Mar 2019**



ENTERED BY:

[Signature]

DATE ENTERED

30 APR 2019

TEST REPORT

REDFLEXspeed radar NK7 static speed camera system

Test Date	06.03.19
Camera S/N	SS4
Doppler Radar Freq. (GHz)	24.1243724

Range/Mapping Radar Freq. (GHz)	24.0971	Software Version	S.48.16.3	Temperature	22.5
GPS Time	12:50	Device Time	12:50	Device Time Corrected?	Yes

Simulation Test:

Applied true Speed (km/h)	50 away		50 twds		100 away		100 twds		150 away		150 twds		200 away		200 twds	
Measured Speed (km/h)	49.9		49.9		100.0		100.0		149.9		149.9		199.9		199.9	
Lanes (✓ or X)	A	✓	A	✓	B	✓	B	✓	C	✓	C	✓	D	✓	D	✓

200 km/h wrong direction: Speed data captured	Yes / No	150 km/h away (out of lane): Lane = 0 (U)	Yes / No
100 km/h twds (out of lane): Lane = 0 (U)	Yes / No	200 km/h away (out of lane): Lane = 0 (U)	Yes / No

Function (Road) Test:

Vehicle Speed (km/h)	Away		Towards	
	Speed	Lane	Speed	Lane
65 km/h	64	A	65	B
100km/h	100	A	100	B

Comments

Speedo Calibration Unit	91	Vehicle Regno.	SRJC 474
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Testing Officer	<i>[Signature]</i>	QC	<i>[Signature]</i>
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120018

Certificate of Accuracy

Approved Vehicle Surveillance Equipment

Model **REDFLEXspeed radar NK7 static camera system**

Serial No **NZK7LX0554**

Manufacturer **Redflex Traffic Systems PTY Ltd**

Result of Laboratory Tests

Applied True Speed (km/h)	50	100	150	200
Measured Speed (km/h)	49	100	149	199
Doppler Radar Frequency	24.124 GHz			

I certify that I tested this Approved Vehicle Surveillance Equipment in accordance with technical procedure CU30, at the speeds specified in the Laboratory Tests panel above and found the device to be recording accurate speeds and distance measurements. This device has a measurement uncertainty of ± 1 km/h when measuring an unknown speed. This device was also subjected to a road test and the images produced by this camera indicated the device was functioning correctly and producing accurate speed readings.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to Section 146 of the Land Transport Act 1998 that the said device was tested on the date below and is accurate.

Signed

Officer's Name **Bruce BEHRENT**
Police Employee

Date of Test **19 Mar 2020**



ENTERED BY:

[Signature]

DATE ENTERED

24 MAR 2020

TEST REPORT

REDFLEXspeed radar NK7 static speed camera system

Test Date	19/3/20
Camera S/N	554
Doppler Radar Freq. (GHz)	24.01245

Range/Mapping Radar Freq. (GHz)	24.0169	Software Version	5048-16.3	Temperature	20.9
GPS Time	2:30:20	Device Time	2:30:20	Device Time Corrected?	Yes

Simulation Test:

Applied true Speed (km/h)	50 away	50 twds	100 away	100 twds	150 away	150 twds	200 away	200 twds
Measured Speed (km/h)	49.9	49.9	100.0	100.0	149.9	149.9	199.9	199.9
Lanes (✓ or X)	A ✓	A ✓	B ✓	B ✓	C ✓	C ✓	D ✓	D ✓

200 km/h wrong direction: Speed data captured	Yes <input checked="" type="radio"/> No	150 km/h away (out of lane): Lane = 0 (U)	Yes <input checked="" type="radio"/> No
100 km/h twds (out of lane): Lane = 0 (U)	Yes <input checked="" type="radio"/> No	200 km/h away (out of lane): Lane = 0 (U)	Yes <input checked="" type="radio"/> No

Function (Road) Test:

Vehicle Speed (km/h)	Away		Towards	
	Speed	Lane	Speed	Lane
65 km/h	65	A	65	B
100km/h	100	A	100	B

Comments	
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Speedo Calibration Unit	91	Vehicle Regno.	JZK676
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Testing Officer	1534957	QC	MD
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102908

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **RAA 037**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements, and technical procedure CU29.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed _____

Officer's Name **Martin Brian Barber**
Police Employee

Date of Test **16 Sep 2020**



NEW ZEALAND
POLICE
Ngā Pirihimana o Aotearoa

WS

102908

ENTERED BY:

[Signature]

DATE ENTERED

- 5 NOV 2020

TEST REPORT

**NK8 STATIC CAMERA SITE
CAMERA ENCLOSURE ALIGNMENT**

Test Date	16/9/20
District	CENTRAL
Site Name	MOKOIA
NK8 Site Code	NOFOO1

Enclosure S/N	/	Flash S/N	/
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Pole Verticality (Degrees)	Road Front	89.9	Camera Front	89.9
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Set at 22°	<input checked="" type="checkbox"/>	Laser Alignment tool (circle one)	NZRAA034	<u>NZRAA037</u>	NZRAA051	NZRAA052
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Ladder Access	Yes <input checked="" type="checkbox"/>	No	Comments	
Vegetation Clear	Yes <input checked="" type="checkbox"/>	No	Comments	

Comments

Testing Officer	<i>[Signature]</i>	QC	<i>[Signature]</i>
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102869

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **NZRAA037**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements, and technical procedure CU29.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed

Officer's Name **Bruce Behrent**
Police Employee

Date of Test **14 Sep 2021**



ENTERED BY:

GR

DATE ENTERED

16 SEP 2021

TEST REPORT

**NK8 STATIC CAMERA SITE
CAMERA ENCLOSURE ALIGNMENT**

Test Date	14/9/21
District	Central
Site Name	Mokoia
NK8 Site Code	NOFO01

Enclosure S/N	/	Flash S/N	/
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Pole Verticality (Degrees)	Road Front	89.0°	Camera Front	90.0
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Set at 22°	<input checked="" type="checkbox"/>	Laser Alignment tool (circle one)	NZRAA034	<u>NZRAA037</u>	NZRAA051	NZRAA052
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Ladder Access	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Comments	
Vegetation Clear	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Comments	

Comments	
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Testing Officer	1314957	QC	CG
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120027

Certificate of Accuracy Approved Vehicle Surveillance Equipment

Model **REDFLEXspeed radar NK7 static camera system**

Serial No **NZK7LX0554**

Manufacturer **Redflex Traffic Systems PTY Ltd**

Result of Laboratory Tests

Applied True Speed (km/h)	50	100	150	200
Measured Speed (km/h)	49	100	149	199
Doppler Radar Frequency	24.124 GHz			

I certify that I tested this Approved Vehicle Surveillance Equipment in accordance with technical procedure CU30, at the speeds specified in the Laboratory Tests panel above and found the device to be recording accurate speeds and distance measurements. This device has a measurement uncertainty of ± 1 km/h when measuring an unknown speed. This device was also subjected to a road test and the images produced by this camera indicated the device was functioning correctly and producing accurate speed readings.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to Section 146 of the Land Transport Act 1998 that the said device was tested on the date below and is accurate.

Signed

Officer's Name **Bruce BEHRENT**
Police Employee

Date of Test **22 Feb 2021**



ENTERED BY:

[Signature]

DATE ENTERED

- 4 MAR 2021

TEST REPORT
REDFLEXspeed radar NK7 static speed camera system

Test Date	22/2/21
Camera S/N	554
Doppler Radar Freq. (GHz)	24.1245

Range/Mapping Radar Freq. (GHz)	24.0964	Software Version	5.48.16.3	Temperature	21.9
GPS Time	9.55.30	Device Time	9.55.30	Device Time Corrected?	yes

Simulation Test:

Applied true Speed (km/h)	50 away	50 twds	100 away	100 twds	150 away	150 twds	200 away	200 twds
Measured Speed (km/h)	49.9	49.9	100.0	100.0	149.9	149.9	199.9	199.9
Lanes (✓ or X)	A ✓	A ✓	B ✓	B ✓	C ✓	C ✓	D ✓	D ✓

200 km/h wrong direction: Speed data captured	Yes / No	150 km/h away (out of lane): Lane = 0 (U)	Yes / No
100 km/h twds (out of lane): Lane = 0 (U)	Yes / No	200 km/h away (out of lane): Lane = 0 (U)	Yes / No

Function (Road) Test:

Vehicle Speed (km/h)	Away		Towards	
	Speed	Lane	Speed	Lane
65 km/h	65	A	65	A B
100km/h	100	A	100	B

Comments	
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Speedo Calibration Unit	91	Vehicle Regno.	JZK474
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Testing Officer	BB4957	QC	Mr
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0000724349

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **NZRAA037**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements, and technical procedure CU29.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed

Officer's Name **Callum GRAY**
Police Employee

Date of Test: **28 Jul 2022**

Calibration Test Report

Asset No:	00544CNZP	Serial No.:	NZK7LX0544	Model:	NK7 STATIC	Make:	REDFLEX TRAFFIC SYSTEMS PTY LTD
Asset Desc.:	REDFLEXspeed radar NK7 static camera system						
District:	4871/CALIBRATION SERVICE			Dept:	NZPCS		
Test ID:	SMX0000876800	Test Date:	22/02/2022	Tech:	Bruce.Behrent	Job No.:	PM2147824
Overall:	Pass		Comments:				

PCS Calibration

NZ PCS - NK7 STATIC CAMERA SYSTEM	Script#	1384	Standard: NZ PCS Procedure CU30				
	Testers:	000702NZP , 247669TNZP , 50004252NZP , 50004288NZP					

Test	Result	Units	Min	Max
Record the GPS Time	8.05.20			
Record the Device Time	8.05.20			
Device Time Corrected	Yes			
Record the Software Version	5.48.16.3			
Record the Temperature	20.4	°C	15	25

1. Receiving Equipment from District

Visual- Case Damage	Pass			
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2. Bench Calibration

Doppler Radar Freq. (GHz)	24.1244	GHz	23.924	24.325
Range Radar Frequency	24.0939	GHz	24.06	24.116

3. Simulation Test

Lane A Test - 50km/h Away	49.9	km/h	49	51
Lane B Test - 100km/h Away	100	km/h	99	101
Lane C Test - 150km/h Away	149.9	km/h	149	151
Lane D Test - 200km/ Away	199.9	km/h	199	201
Lane A Test - 50km/h Twd	49.9	km/h	49	51
Lane B Test - 100km/h Twd	100	km/h	99	101
Lane C Test - 150km/h Twd	149.9	km/h	149	151
Lane D Test - 200km/ Twd	199.9	km/h	199	201
200 km/h wrong direction: Speed Captured	No			
100 km/h twd (out of lane): Lane = 0(U)	Yes			
150 km/h away (out of lane) Lane = 0(U)	Yes			
200 km/h away (out of lane): Lane = 0(U)	Yes			

4. Practical Road Test

Lane A Test - 65km/h Away	65	km/h	63	67
Lane A Test - 100 km/h Away	100	km/h	98	102
Lane B Test - 65 km/h Twd	65	km/h	63	67
Lane B Test - 100 km/h Twd	100	km/h	98	102

Calibration Test Report

Asset No:	NOF001NZP	Serial No.:	NOF001	Model:	STATIC CAMERA SITE	Make:	STATIC CAMERA SITE
Asset Desc.:	STATE HIGHWAY 3						
District:	4871/CENTRAL			Dept:	MOKOIA		
Test ID:	SMX0000724349	Test Date:	28/07/2022	Tech:	Callum.Gray	Job No.:	PM2206138
Overall:	Pass		Comments:				

PCS Calibration

NK8 STATIC CAMERA SITE	Script#	1382	Standard:	NZ PCS Procedure CU29			
	Testers:	07/28-0479NZP , 0717-90372TNZP					
Test	Result	Units					
1. Pre-Test Inspection							
Visual - camera pole and NK8 housing	Pass						
2. Calibration							
Record Laser Alignment Tool Serial number	NZRAA037						
Set at 22 degrees	Yes						
Road Front- Pole Vertically	89.9	Degrees					
Camera Front - Pole Vertically	90.0	Degrees					

Certificate of Accuracy Approved Vehicle Surveillance Equipment

Model **REDFLEXspeed radar NK7 static camera system**
Serial No **NZK7LX0544**
Manufacturer **REDFLEX TRAFFIC SYSTEMS PTY LTD**

Result of Laboratory Tests

Applied True Speed (km/h)	50	100	150	200
Measured Speed (km/h)	49.9	100	149.9	199.9
Doppler Radar Frequency	24.1244 GHz			

I certify that I tested this Approved Vehicle Surveillance Equipment in accordance with technical procedure CU30, at the speeds specified in the Laboratory Tests panel above and found the device to be recording accurate speeds and distance measurements. This device has a measurement uncertainty of ± 1 km/h when measuring an unknown speed. This device was also subjected to a road test and the images produced by this camera indicated the device was functioning correctly and producing accurate speed readings.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to Section 146 of the Land Transport Act 1998 that the said device was tested on the date below and is accurate.

Signed



Officer's Name **Bruce Behrent**

Date of Test: **22 Feb 2022**

Police Employee

Certificate of Accuracy Approved Vehicle Surveillance Equipment

Model **REDFLEXspeed radar NK7 static camera system**
Serial No **NZK7LX0544**
Manufacturer **REDFLEX TRAFFIC SYSTEMS PTY LTD**

Result of Laboratory Tests

Applied True Speed (km/h)	50	100	150	200
Measured Speed (km/h)	49.9	100	149.9	199.9
Doppler Radar Frequency	24.1246 GHz			

I certify that I tested this Approved Vehicle Surveillance Equipment in accordance with technical procedure CU30, at the speeds specified in the Laboratory Tests panel above and found the device to be recording accurate speeds and distance measurements. This device has a measurement uncertainty of ± 1 km/h when measuring an unknown speed. This device was also subjected to a road test and the images produced by this camera indicated the device was functioning correctly and producing accurate speed readings.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to Section 146 of the Land Transport Act 1998 that the said device was tested on the date below and is accurate.

Signed



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Officer's Name **Bruce Behrent**

Date of Test: **22 Feb 2023**

Police Employee



0001272596

Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road **STATE HIGHWAY 3**
Location **MOKOIA**
Site Number **NOF001**
Laser Alignment Tool **nzraa051**

I certify that the camera mounting enclosure hardware at this site has been aligned at 22 degrees to the linear direction of the roadway in accordance with the camera manufacturer's design requirements, and technical procedure CU29.

I, being a member of the New Zealand Police duly authorised for the purpose by the Commissioner of Police, certify pursuant to section 146 of the Land Transport Act 1998, that the said device, being a part of Approved Vehicle Surveillance Equipment, was tested on the date below and is accurate.

Signed

Officer's Name **Wolfgang HAIST**
Police Employee

Date of Test: **17 Jun 2023**

Calibration Test Report

Asset No:	00544CNZP	Serial No.:	NZK7LX0544	Model:	NK7 STATIC	Make:	REDFLEX TRAFFIC SYSTEMS PTY LTD
Asset Desc.:	REDFLEXspeed radar NK7 static camera system						
District:	4871/CALIBRATION SERVICE			Dept:	NZPCS		
Test ID:	SMX0001088360	Test Date:	22/02/2023	Tech:	Bruce.Behrent	Job No.:	PM2282338
Overall:	Pass		Comments:				

PCS Calibration

NZ PCS - NK7 STATIC CAMERA SYSTEM	Script#	1384	Standard: NZ PCS Procedure CU30				
	Testers:	247669TNZP , 50004252NZP , 50004288NZP					

Test	Result	Units	Min	Max
Record the GPS Time	2.45.30			
Record the Device Time	2.45.30			
Device Time Corrected	Yes			
Record the Software Version	5.48.16.3			
Record the Temperature	20.8	°C	15	25

1. Receiving Equipment from District

Visual- Case Damage	Pass			
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2. Bench Calibration

Doppler Radar Freq. (GHz)	24.1246	GHz	23.924	24.325
Range Radar Frequency	24.0932	GHz	24.06	24.116

3. Simulation Test

Lane A Test - 50km/h Away	49.9	km/h	49	51
Lane B Test - 100km/h Away	100	km/h	99	101
Lane C Test - 150km/h Away	149.9	km/h	149	151
Lane D Test - 200km/ Away	199.9	km/h	199	201
Lane A Test - 50km/h Twd	49.9	km/h	49	51
Lane B Test - 100km/h Twd	100	km/h	99	101
Lane C Test - 150km/h Twd	149.9	km/h	149	151
Lane D Test - 200km/ Twd	199.9	km/h	199	201
200 km/h wrong direction: Speed Captured	No			
100 km/h twd (out of lane): Lane = 0(U)	Yes			
150 km/h away (out of lane) Lane = 0(U)	Yes			
200 km/h away (out of lane): Lane = 0(U)	Yes			

4. Practical Road Test

Lane A Test - 65km/h Away	65	km/h	63	67
Lane A Test - 100 km/h Away	100	km/h	98	102
Lane B Test - 65 km/h Twd	65	km/h	63	67
Lane B Test - 100 km/h Twd	100	km/h	98	102

Calibration Test Report

Asset No:	NOF001NZP	Serial No.:	NOF001	Model:	STATIC CAMERA SITE	Make:	STATIC CAMERA SITE
Asset Desc.:	STATE HIGHWAY 3						
District:	4871/CENTRAL			Dept:	MOKOIA		
Test ID:	SMX0001272596	Test Date:	17/06/2023	Tech:	wolfgang.Haist	Job No.:	PM2321826
Overall:	Pass		Comments:				

PCS Calibration

NK8 STATIC CAMERA SITE	Script#	1382	Standard:	NZ PCS Procedure CU29		
	Testers:	98/426NZP				
Test	Result	Units				
1. Pre-Test Inspection						
Visual - camera pole and NK8 housing	Pass					
2. Calibration						
Record Laser Alignment Tool Serial number	nzraa051					
Set at 22 degrees	Yes					
Road Front- Pole Vertically	89.6	Degrees				
Camera Front - Pole Vertically	89.9	Degrees				