

IR-01-23-23253

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: <a href="https://www.police.govt.nz/advice-services/infringement-services/infringements">https://www.police.govt.nz/advice-services/infringement-services/infringements</a>

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





# 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 G	iHz		

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 ±1km/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



Lab Report	# 2504
Entered by	dare'
Date entered	2 8 MAR 2018

### **Test Report**

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

District	PN	HQ			Station PCS						
Site Name Site C				de			Lab T	est Date	22/3	/18	
Camera Serial #	55	4	Software \	Version	5.49.16	Lab	DVD#				
Temperature	2100	+	Doppler R Frequency					e/Mapping r Freq. (GH	(z) 24	·C939	
GPS Time	13019	5041	Device Tin	130150	Cel		ce Time ected?	У	res		
imulation Test	•										
Applied True Speed (km/h) 50 away		50 twds 100 awa		y 100 twds 150 aw		way :	way 150 twds 20		200 twd:		
	Measured Speed (km/h) 49e9 / Lanes (✓or x) A		4909/	ICC B V	/ ICO	149		(49.9	199.9/ D V	199.9	
200km wrong direct Speed data captured			Yes / No	)	150km/h away Lane = 0 (U)	flane): Yes / No			No		
100km/h twds (out o Lane = 0 (U)	of lane):		Yes / No		200 km/hr awa Lane = 0 (U)	of lane): Yes / No					
RLC ONLY: Traffic Signal Inpu	t	REC	Yes /	No	AMBER	Yes	/ No	GI	REEN Yes	s / No	
unction Test:											
Vehicle Speed (	km/h)			way			Towards				
	,,,,		eed		Lane	21-	Spee	d	La	ne	
65 km/h	65 km/h GC				A		W. 14 B				

**Testing Officer** 

Vehicle Speed (km/h)	Aw	<i>r</i> ay	Towards			
	Speed	Lane	Speed	Lane		
65 km/h	64	A	Glick	B		
100 km/h	100	A	101	В		

RLC ONLY: Offence Triggered	RED Yes / No	AMBER Yes / No	GREEN Yes / No		
Set at 22°		Laser alignment tool#			
Function Test DVD #		Vehicle Regno.	JBFSOL		
Speedo Calibration Unit	92	I.D.			

Q.C.

PCS CU28 / CU30



# **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

Date of Test 04 Apr 2018

Police Employee



Entered by Date entered 0 6 APR 2018

### **Test Report**

NK8 Static Camera Site Camera Enclosure Alignment

Test Date		4/4/19	б						
District		Centra	1						
Site Name		SH3 Mol	koia						
NK8 Site Co	de	NOFO	<i>01</i>						
Camera S/N					Flas	sh S/N	10	20	FF-2418
Enclosure S/	'N	iuznkg (	2)44						
Pole Verticality		Road Front	<u>-</u>		Camer	a Front	Front Gg.9		
Set at 22°		Laser Alignment tool (circle one)	NZRAA(	034	NER	NZRAA037 NZRAA		051 NZRAA052	
Ladder Acces	S	ves No	Comme	ents					
Vegetation Cl	Vegetation Clear Yes No Comment			nts					
Testing Office	1			QC			6		



# Certificate of Accuracy Static Camera Site

Camera Enclosure Alignment

Road

**STATE HIGHWAY 3** 

Location

**MOKOJA** 

Site Number

**NOF001** 

Laser Alignment Tool RAA 037

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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 Bertiand GLORIA

Police Employee

Date of Test 07 Nov 2018



WS

2754

ENTERED BY:



DATE ENTERED

3 0 JAN 2019

### **TEST REPORT**

# NK8 STATIC CAMERA SITE CAMERA ENCLOSURE ALIGNMENT

Total Date											
Test Date	07	-11-18									
District	Ce	ntal									
Site Name	Mo	okoia									
NK8 Site Code	D.	Mokoia NOFOOI									
		~									
Enclosure S/N	_		Flash S/N								
Pole Verticality (Degrees)	Road Fro	ont 9	9.7	Camera Front	89.9						
Set at 22°	Laser Align- ment tool (circle one)	NZRAA03	4 VZRA	A037 NZRAA	051 NZRAA052						
Ladder Access	Ye No	Comment	S								
Vegetation Clear	Ves No	Comment	S								
			•								
Comments											
	·				£.						
Testing Officer	BGB	>16	G	C	B						



### **Certificate of Accuracy Static Camera Site**

Camera Enclosure Alignment

Road

**STATE HIGHWAY 3** 

Location

**MOKOIA** 

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Signed

Officer's Name Bruce BEHRENT

Date of Test 16 Oct 2019

Police Employee



WS

102809

DATE ENTERED 1 0 DEC 2019

### **TEST REPORT**

# NK8 STATIC CAMERA SITE CAMERA ENCLOSURE ALIGNMENT

Test Date	\	6/10/	19					
District	C	ento	15					
Site Name	~	6kg	Oi					
NK8 Site Code	N	)FO	$\mathcal{C}$					
Enclosure S/N				Flash	S/N		/	
Pole Verticality (Degrees)	Road Front Gyoy Camera Front Gyoy							9909
Set at 22°	Laser Alig ment tool (circle on		NZRAA03	4 1/2	PAA037	NZRA	\A051	NZRAA052
Ladder Access	Yes	No	Comment	TS				
Vegetation Clear	Xes	No	Comment	s				
Comments								
Testing Officer	BBY	457			QC			uk



# 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
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Signed

Officer's Name Bertrand GLORIA

Police Employee

Date of Test 06 Mar 2019



ws | 20081

DATE ENTERED 3 0 APR 2019

### **TEST REPORT**

	REDFLE	Xspe	ed i	rada	r Nk	(7 st	atic	spe	ed	cam	era :	syst	em		
Test Date				0	6,	03	19	<u> </u>							
Camera S/N					SS	4									
Doppler Rac	lar Freq. (G	Hz)		24.1243724											
Range/Mapping Radar Freq. (GHz	24.00	271	Software Version				3,40	,48.16.3 Ten			perature	)	22.	7	
GPS Time	12/55	2		Device 1	Time		120				ce Time		Ye		
Simulation Tes	st:														
Applied true Speed (km/h)	ied true 50 avgv 50 hard		twds	100	away	100	twds	150	away	150	twds	200	away	200	twds
Measured Speed (km/h)	49.9	40	۹.9	100	٥,٥	Poc	0-0	149	-9	140	1.9	9 199.0		19	9,9
Lanes ( 🗸 or 🗶 )	A /	А	<b>V</b>	В	/	В	/	С	/	С	/	D	/	D	V
200 km/h wrong direction: Speed data captured  Yes / No					15 La	50 km/l ane = 0	n away ( (U)	(out of	lane):	4		<b>Y</b> es/	No	Ď.	
100 km/h twds (c Lane = 0 (U)	out of lane):		<b>V</b> oc / <b>N</b> o 200 k				00 km/l ane = 0	km/h away (out of lane): e = 0 (U)				Yes No			
Function (Roa	d) Test:														
Vehicle Speed			Awa	у				Towards							
(km/h)	Spee	d			Lane			Speed				Lane			
65 km/h	64				A				65	E-3		1	3		
100km/h	100				A				00	)		3			
Comments															
Speedo Calibra Unit	ation		91	<i>'</i>				ehicle egno.	3	TR)	(4	74			
Testing Officer		2	~		)		Q	С		M					



# 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

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Measured Speed (km/h)	49	100	149	199
Doppler Radar Frequency	24.124 G	Hz		

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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



### ws/20018

ENTERED BY: DATE ENTERED 2 4 MAR 2020

### **EST REPORT**

ň	EUFLEX	speea	radar NK	/ static	spee	d camera	a system			
Test Date			19/-	3/20						
Camera S/N			/ 5	7						
Doppler Rada	ar Freq. (Gl	Hz)	2601265							
Range/Mapping Radar Freq. (GHz)	Z4.09	169	Software Versio	n 5°4	50-16-3	Tempera	ture ZOOG	/		
GPS Time	2-30	-20	Device Time	Z:3	6-16-3 0-20	Device Ti				
Simulation Test	• •									
Applied true Speed (km/h)	50 away	50 twds	100 away	100 twds	150 aw	ay 150 twds	200 away	200 twds		
Measured Speed (km/h)	4909	4904	100.00	100.0	14909	14909	199.9	19909		
Lanes ( 🗸 or 🗶 )	A /	A	В	В	С	c /	D	D		
200 km/h wrong direction: Speed data captured			res (No)	150 km/ Lane = 0	h away (ou ) (U)	it of lane):	Yes	<b>N</b> o '		
100 km/h twds (ou Lane = 0 (U)	t of lane):	(Y	res/No	200 km/ Lane = 0	h away (ou ) (U)	ut of lane):	Yes/	Yes / No		
Function (Road)	Test:					· · · · · · · · · · · · · · · · · · ·				
Vehicle Speed		Aw	/ay			То	wards			
(km/h)	Speed	d	Lane		5	Speed	La	ne		
65 km/h	G5		A		GE	)	В			
100km/h	100		Ą		ICC	<u>ن</u>	5			
Comments										
Speedo Calibrati Unit	ion	91			ehicle egno.	JEK	476			
Testing Officer	17	53495	4	Q	C	Mr	>			
								PCSCU30		



# **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

Date of Test 16 Sep 2020

Police Employee



WS

102908

ENTERED BY: M

DATE ENTERED

-5 NOV 2020

### **TEST REPORT**

# NK8 STATIC CAMERA SITE CAMERA ENCLOSURE ALIGNMENT

Test Date	161	19/20					
District	CEN	19/20 mpi					
Site Name	mor	AIO					
NK8 Site Code	NOFO	001					
Enclosure S/N	/	/	Flash S/N				
Pole Verticality (Degrees)	Road Fro	ont 89.	9	Came	era Front	8	9-9
Set at 22°	Laser Align- ment tool (circle one)	NZRAA034	1 NZRA	4037	NZRAA0	51	NZRAA052
Ladder Access	Yes No	Comments	6				
Vegetation Clear	Yes No	Comments	6				
Comments							
Testing Officer	mel		Q	C	N TV	B	



## **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

Date of Test 14 Sep 2021

Police Employee



WS

10 2869

ENTERED BY:

GR.

DATE ENTERED

1 6 SEP 2021

### **TEST REPORT**

# NK8 STATIC CAMERA SITE CAMERA ENCLOSURE ALIGNMENT

Test Date			(4)	9/21				
District			ر	tral				
Site Name		1	101	wice				
NK8 Site Code			X	SFOO	λ			
Enclosure S/N		/	/		Flash S/	N		
Pole Verticality (Degrees)	Roa	ad Fro	nt	લ	9.G	Cam	era Front	90.0
Set at 22°	ment to	loc	NZ	ZRAA034	4 NZR	AA037	NZRAA05	51 NZRAA052
Ladder Access	Yes	No	Co	mment	S			
Vegetation Clear	Yes	No	Co	mment	S			
Comments								
Testing Officer	E	1579	5	1		QC		CC



# 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 G	Hz		

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 ±1km/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



ws 120027

ENTERED BY: DATE -4 MAR 2021 ENTERED

#### **TEST REPORT**

RENEI Eyenpad radar NK7 static

ח		speed	i radar inn	V stat	ic spe	ea cam	era s	system	
Test Date			27/2	21					
Camera S/N			556						
Doppler Rada	r Freq. (GI	Hz)	24.1	245					
Range/Mapping Radar Freq. (GHz)	24.09	64	Software Version	on 5.	46.16.	3 Temp	perature	2109	
GPS Time	24:09 9.59	5.30	Device Time		46.16. 7.055.3	Device Corre	ce Time ected?	Yes	ĵ.
Simulation Test:						-			
Applied true Speed (km/h)	50 away	50 twds	s 100 away	100 twd:	s 150 a	way 1501	twds	200 away	200 twds
Measured Speed (km/h)	4909	49.9	/ 100.0/	100-0	1490	9 149	109	199.9	199:9
Lanes ( 🗸 or 🗶 )	A /	A /	в	В	С	/ c		D /	D
200 km/h wrong dir Speed data capture	ection:	•	Yes No	150 kı Lane :	m/h away (c = 0 (U)	out of lane):		Yes	<b>N</b> o `
100 km/h twds (out Lane = 0 (U)	of lane):		Yes No	200 ki Lane	m/h away (c = 0 (U)	out of lane):		Yes /	<b>N</b> o
Function (Road)	Test:								
Vehicle Speed		Av	vay				Toward	ls	
(km/h)	Speed	t l	Lane			Speed		Lar	ne
65 km/h	G5		A			65		10 18	3
100km/h	100		A			100		B	5 241
Comments									
Speedo Calibratio Unit	on 9	ļ			Vehicle Regno.	5R	KG7(	ŧ	
Testing Officer	B	By95	7		QC	MA			
		1							PCSC1180



### Certificate of Accuracy Static Camera Site

### Camera Enclosure Alignment

Road Location Site Number Laser Alignment Tool	STATE HIGHWAY 3 MOKOIA NOF001 NZRAA037	
	a mounting enclosure hardware at this site ha badway in accordance with the camera manu 129.	
Police, certify pursuant	e New Zealand Police duly authorised for the to section 146 of the Land Transport Act 199 eillance Equipment, was tested on the date be	98, that the said device, being a part of
Signed		
Officer's Name Call Poli	um GRAY ce Employee	Date of Test: 28 Jul 2022



#### **Calibration Test Report**

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

Overall: Pass Comments:

1 433					
	PCS Calibration				
NZ PCS - NK7 STATIC CAMERA SYSTEM	Script#	1384		Standard:	NZ PCS
	Testers:	000702NZF	P, <u>247669TN</u>	ZP, <u>5000425</u> 2	2NZP, 5000
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				
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	
ane B Test - 100km/h Away	100	km/h	99	101	
ane C Test - 150km/h Away	149.9	km/h	149	151	]
ane D Test - 200km/ Away	199.9	km/h	199	201	
Lane A Test - 50km/h Twd	49.9	km/h	49	51	
ane 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				
. 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					1



#### **Calibration Test Report**

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

F	PCS Calibration		
NK8 STATIC CAMERA SITE	Script#	1382	Standard: NZ PCS Procedure CU29
	Testers:	07/28-0479	NZP, <u>0717-90372TNZP</u>
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	24.124	4 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  $\pm$  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.

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Signed

Officer's Name Bruce Behrent

Police Employee

Date of Test: 22 Feb 2022



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#### Result of Laboratory Tests

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Measured Speed (km/h)	49.9	100	149.9	199.9
Doppler Radar Frequency	24.124	6 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  $\pm$  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.

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Officer's Name Bruce Behrent

Police Employee

Date of Test: 22 Feb 2023



### Certificate of Accuracy Static Camera Site

### Camera Enclosure Alignment

Road Location Site Number	STATE HIGHWAY 3 MOKOIA NOF001	
Laser Alignment T		
	nera mounting enclosure hardware at this site ne roadway in accordance with the camera mate CU29.	
Police, certify pursu	of the New Zealand Police duly authorised for a lant to section 146 of the Land Transport Act 1 Surveillance Equipment, was tested on the date	998, that the said device, being a part of
Signed -	W, Kart	
Officer's Name	Wolfgang HAIST	Date of Test: 17 Jun 2023
!	Police Employee	



#### **Calibration Test Report**

REDFLEX TRAFFIC SYSTEMS PTY LTD 00544CNZP Serial No.: NZK7LX0544 NK7 STATIC Asset No: Model: Make: REDFLEXspeed radar NK7 static camera system Asset Desc.: 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
	Testers:	247669TN2	ZP, <u>5000425</u>	2NZP, 50004	288NZP
Test	Result	Units	Min	Max	
Record the GPS Time	2.45.30				
Record the Device Time	2.45.30				1
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				
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	1
Lane B Test - 65 km/h Twd	65	km/h	63	67	]
Lane B Test - 100 km/h Twd	100	km/h	98	102	1



#### **Calibration Test Report**

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

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							