



**Certificate of Compliance  
for the  
Calibration of Redflex HADECS3X Enforcement System**

We, Redflex Traffic Systems Pty Ltd of 31 Market Street, South Melbourne, Victoria, Australia 3205 hereby certify that the Redflex HADECS3X system comprising of the components as listed below, has been calibrated according to the Home Office Speed Meter Handbook (fourth edition) 15/05, and the timing of the secondary check has been verified and both comply with the terms of the specification for type approval.

<b>Location:</b>	4236B - M1
<b>Redflex HADECS3X NK7 serial number:</b>	HAD00794
<b>Speed Radar - Serial number:</b>	37643-01270
<b>Tracking Radar - Serial number:</b>	37642-00092
<b>Date of calibration:</b>	27/04/2023
<b>Certificate Number:</b>	CV10103630
<b>Calibration carried out by:</b>	Terry Wood

**Signature:** 

**Checked By:** Ron Moore

**Signature:** 



**CERTIFICATION RECORD**

<b>CALIBRATION CERTIFICATE NUMBER:</b>	<b>CV10103630</b>	<b>REDFLEX HADECS3X NK7 SERIAL NUMBER:</b>	<b>HAD00794</b>
<b>SR CERTIFICATE NUMBER:</b>	<i>705054</i>	<b>SERIAL NUMBER:</b>	<i>37643-01270</i>
<b>PRODUCT MODEL:</b>	AGD SR-340		
<b>FIRMWARE VERSION:</b>	<i>MI-096-1</i>	<b>TEST SOFTWARE VERSION:</b>	<i>1.3.1.7</i>
<b>DATE OF CERTIFICATION:</b>	<i>27 April 2023</i>	<b>RADAR TEMPERATURE (°C):</b>	<i>41.56</i>
<b>RELATIVE HUMIDITY (%):</b>	<i>39.00</i>	<b>AMBIENT TEMPERATURE (°C):</b>	<i>23.00</i>

**CERTIFICATION TEST PROCEDURE REFERENCE:** See 1201-007 REDFLEXradar-Certification System User Manual

<b>DESCRIPTION</b>	<b>COMMENT</b>	<b>Pass/Fail</b>
EQUIPMENT TESTS		<i>Pass</i>
VISUAL INSPECTION		<i>Pass</i>
SPEED MEASUREMENTS		<i>Pass</i>

<b>DESCRIPTION</b>	<b>MEASURED</b>	<b>LIMITS</b>	
TRANSMIT FREQUENCY MEASUREMENT (GHz)	<i>24.09127127</i>	24.075 - 24.120	<i>Pass</i>

**TRACEABILITY RECORDS OF INSTRUMENTS USED IN CERTIFICATION TEST**

<b>INSTRUMENT DESCRIPTION:</b>	<b>SERIAL NUMBER:</b>	<b>CALIBRATION CERTIFICATE NUMBER:</b>	<b>NEXT CALIBRATION DUE DATE:</b>
TEKTRONIX AFG3022B Function Generator	<i>C014082</i>	<i>22121046</i>	<i>20th December 2023</i>
PENDULUM CNT-90XL Frequency Counter	<i>178903</i>	<i>3999180001</i>	<i>13th December 2023</i>
FLUKE 971 Temperature Humidity Meter	<i>35181596</i>	<i>22121045</i>	<i>20th December 2023</i>
AGD MC-116 Target Simulator	<i>117117-00017</i>	<i>116077</i>	<i>02nd December 2023</i>

<b>CERTIFICATION TEST CARRIED OUT BY:</b>	<b>Terry Wood</b>	<b>NEXT CERTIFICATION TEST DUE:</b>	<b>26 April 2024</b>
<b>CHECKED BY</b>	<b>Ron Moore</b>	<i>Template V20230111RX (SR)</i>	



**SPEED MEASUREMENT**

<b>CALIBRATION CERTIFICATE NUMBER:</b>	<b>CV10103630</b>	<b>REDFLEX HADECS3X NK7 SERIAL NUMBER:</b>	<b>HAD00794</b>
--	-------------------	--	-----------------

**SERIAL NO: 37643-01270**

Simulated Speed (mph)	Measured Speed (mph)				Speed Limits (mph)	Pass/Fail
	Advancing		Receding			
	Min	Max	Min	Max		
13.05	13.05	13.05	13.05	13.05	12.74 - 13.36	Pass
18.64	18.58	18.63	18.58	18.63	18.33 - 18.95	Pass
24.85	24.85	24.85	24.85	24.85	24.54 - 25.17	Pass
31.07	31.01	31.02	31.01	31.03	30.76 - 31.38	Pass
37.28	37.28	37.28	37.28	37.28	36.97 - 37.59	Pass
43.50	43.43	43.43	43.43	43.43	43.19 - 43.81	Pass
49.71	49.71	49.71	49.71	49.71	49.40 - 50.02	Pass
55.92	55.86	55.86	55.86	55.86	55.61 - 56.23	Pass
62.14	62.14	62.14	62.14	62.14	61.83 - 62.45	Pass
68.35	68.29	68.29	68.29	68.29	68.04 - 68.66	Pass
74.56	74.56	74.56	74.56	74.56	74.25 - 74.88	Pass
80.78	80.72	80.72	80.72	80.72	80.47 - 81.09	Pass
86.99	86.93	86.99	86.93	86.99	86.68 - 87.30	Pass
93.21	93.14	93.14	93.14	93.14	92.89 - 93.52	Pass
99.42	99.36	99.37	99.36	99.38	99.11 - 99.73	Pass
105.63	105.57	105.57	105.57	105.57	105.32 - 105.94	Pass
111.85	111.78	111.78	111.78	111.78	111.54 - 112.16	Pass
118.06	118.00	118.00	118.00	118.00	117.75 - 118.37	Pass
124.27	124.21	124.21	124.21	124.21	123.96 - 124.58	Pass
136.70	136.64	136.64	136.64	136.64	136.39 - 137.01	Pass
149.13	149.00	149.05	149.00	149.05	148.82 - 149.44	Pass
161.56	161.43	161.43	161.43	161.43	161.25 - 161.87	Pass
173.98	173.86	173.86	173.86	173.86	173.67 - 174.29	Pass
186.41	186.29	186.29	186.29	186.29	186.10 - 186.72	Pass

*Template V20230111RX (SR)*



**CERTIFICATION RECORD**

<b>CALIBRATION CERTIFICATE NUMBER:</b>	<b>CV10103630</b>	<b>REDFLEX HADECS3X NK7 SERIAL NUMBER:</b>	<b>HAD00794</b>
<b>TR CERTIFICATE NUMBER:</b>	<i>31700100</i>	<b>SERIAL NUMBER:</b>	<i>37642-00092</i>
<b>PRODUCT MODEL:</b>	AGD TR-317		
<b>BIOS VERSION:</b>	<i>MI-135-7</i>	<b>DSP SOFTWARE VERSION:</b>	<i>MI-144-9</i>
<b>PIC FIRMWARE VERSION:</b>	<i>N/A</i>	<b>TEST SOFTWARE VERSION:</b>	<i>1.3.1.7</i>
<b>DATE OF CERTIFICATION:</b>	<i>27 April 2023</i>	<b>RADAR TEMPERATURE (°C):</b>	<i>N/A</i>
<b>RELATIVE HUMIDITY (%):</b>	<i>39.00</i>	<b>AMBIENT TEMPERATURE (°C):</b>	<i>23.00</i>
<b>CALIBRATED BANDWIDTH (MHz):</b>	<i>41.20</i>		
<b>CERTIFICATION TEST PROCEDURE REFERENCE:</b>	See 1201-007 REDFLEXradar-Certification System User Manual		
<b>DESCRIPTION</b>	<b>COMMENT</b>		
EQUIPMENT TESTS			<i>Pass</i>
VISUAL INSPECTION			<i>Pass</i>
SPEED AND RANGE MEASUREMENTS			<i>Pass</i>
<b>DESCRIPTION</b>	<b>MEASURED</b>	<b>LIMITS</b>	<b>PASS/FAIL</b>
TRANSMIT FREQUENCY MEASUREMENT (GHz)	<i>24.12426194</i>	24.123 - 24.127	<i>Pass</i>
BANDWIDTH MEASUREMENT (MHz)	<i>40.00</i>	39.00 - 44.00	<i>Pass</i>
<b>TRACEABILITY RECORDS OF INSTRUMENTS USED IN CERTIFICATION TEST</b>			
<b>INSTRUMENT DESCRIPTION:</b>	<b>SERIAL NUMBER:</b>	<b>CALIBRATION CERTIFICATE NUMBER:</b>	<b>NEXT CALIBRATION DUE DATE:</b>
TEKTRONIX AFG3022B Function Generator	<i>C014082</i>	<i>22121046</i>	<i>20th December 2023</i>
PENDULUM CNT-90XL Frequency Counter	<i>178903</i>	<i>3999180001</i>	<i>13th December 2023</i>
FLUKE 971 Temperature Humidity Meter	<i>35181596</i>	<i>22121045</i>	<i>20th December 2023</i>
AGD MC-116 Target Simulator	<i>117117-00017</i>	<i>116077</i>	<i>02nd December 2023</i>
<b>CERTIFICATION TEST CARRIED OUT BY:</b>	<b>Terry Wood</b>	<b>NEXT CERTIFICATION TEST DUE:</b>	<b>26 April 2024</b>
<b>CHECKED BY:</b>	<b>Ron Moore</b>	<i>Template V20230111RX (TR)</i>	



## SPEED AND RANGE MEASUREMENT

<b>CALIBRATION CERTIFICATE NUMBER:</b>	<b>CV10103630</b>	<b>REDFLEX HADECS3X NK7 SERIAL NUMBER:</b>	<b>HAD00794</b>
--	-------------------	--	-----------------

**SERIAL NO: 37642-00092**

Simulated Range (m)	Simulated Speed (mph)	Measured Advancing		Measured Receding		Range Limits (m)	Speed Limits (mph)	Pass/Fail
		Range (m)	Speed (mph)	Range (m)	Speed (mph)			
23.80	31.07	23.99	31.07	23.70	31.01	22.10 - 25.50	30.76 - 31.38	Pass
23.80	62.14	24.09	62.16	23.60	62.12	22.10 - 25.50	61.83 - 62.45	Pass
23.80	93.21	24.12	93.33	23.57	93.27	22.10 - 25.50	92.89 - 93.52	Pass
23.80	124.27	24.20	124.34	23.50	124.34	22.10 - 25.50	123.96 - 124.58	Pass
23.80	155.34	24.20	155.34	23.50	155.34	22.10 - 25.50	155.03 - 155.65	Pass
23.80	186.41	24.10	186.47	23.60	186.41	22.10 - 25.50	186.10 - 186.72	Pass
51.00	7.46	51.10	7.55	51.10	7.46	49.30 - 52.70	7.15 - 7.77	Pass
51.00	12.43	51.14	12.49	51.10	12.37	49.30 - 52.70	12.12 - 12.74	Pass
51.00	18.64	51.20	18.71	51.00	18.64	49.30 - 52.70	18.33 - 18.95	Pass
51.00	24.85	51.20	24.92	51.00	24.85	49.30 - 52.70	24.54 - 25.17	Pass
51.00	31.07	51.20	31.07	51.00	31.01	49.30 - 52.70	30.76 - 31.38	Pass
51.00	37.28	51.20	37.34	51.00	37.22	49.30 - 52.70	36.97 - 37.59	Pass
51.00	43.50	51.28	43.62	50.95	43.50	49.30 - 52.70	43.19 - 43.81	Pass
51.00	49.71	51.30	49.77	50.90	49.71	49.30 - 52.70	49.40 - 50.02	Pass
51.00	55.92	51.30	55.92	50.90	55.86	49.30 - 52.70	55.61 - 56.23	Pass
51.00	62.14	51.30	62.20	50.90	62.07	49.30 - 52.70	61.83 - 62.45	Pass
51.00	68.35	51.30	68.48	50.90	68.41	49.30 - 52.70	68.04 - 68.66	Pass
51.00	74.56	51.36	74.63	50.87	74.56	49.30 - 52.70	74.25 - 74.88	Pass
51.00	80.78	51.40	80.78	50.80	80.72	49.30 - 52.70	80.47 - 81.09	Pass
51.00	86.99	51.40	87.05	50.80	86.93	49.30 - 52.70	86.68 - 87.30	Pass
51.00	93.21	51.40	93.33	50.80	93.27	49.30 - 52.70	92.89 - 93.52	Pass
51.00	99.42	51.40	99.48	50.80	99.42	49.30 - 52.70	99.11 - 99.73	Pass
51.00	105.63	51.40	105.63	50.80	105.57	49.30 - 52.70	105.32 - 105.94	Pass
51.00	111.85	51.40	111.91	50.80	111.78	49.30 - 52.70	111.54 - 112.16	Pass
51.00	118.06	51.42	118.18	50.80	118.12	49.30 - 52.70	117.75 - 118.37	Pass
51.00	124.27	51.44	124.34	50.78	124.27	49.30 - 52.70	123.96 - 124.58	Pass
51.00	136.70	51.49	136.76	50.73	136.64	49.30 - 52.70	136.39 - 137.01	Pass
51.00	149.13	51.48	149.25	50.75	149.19	49.30 - 52.70	148.82 - 149.44	Pass
51.00	161.56	51.42	161.62	50.79	161.49	49.30 - 52.70	161.25 - 161.87	Pass
51.00	173.98	51.40	174.11	50.80	174.05	49.30 - 52.70	173.67 - 174.29	Pass
51.00	186.41	51.39	186.47	50.82	186.36	49.30 - 52.70	186.10 - 186.72	Pass
81.60	31.07	81.90	31.07	81.68	31.00	79.90 - 83.30	30.76 - 31.38	Pass
81.60	62.14	82.00	62.26	81.57	62.07	79.90 - 83.30	61.83 - 62.45	Pass
81.60	93.21	82.09	93.33	81.50	93.21	79.90 - 83.30	92.89 - 93.52	Pass
81.60	124.27	82.10	124.40	81.40	124.27	79.90 - 83.30	123.96 - 124.58	Pass
81.60	155.34	82.10	155.40	81.40	155.28	79.90 - 83.30	155.03 - 155.65	Pass
81.60	186.41	82.01	186.54	81.50	186.35	79.90 - 83.30	186.10 - 186.72	Pass

*Template V20230111RX (TR)*