
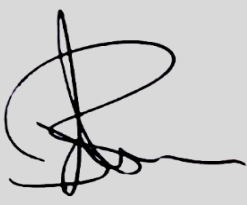




**Certificate of Compliance
for the
Calibration of Redflex HADECS3X Enforcement System**

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.

Location:	4550B - M1
Redflex HADECS3X NK7 serial number:	HAD00306
Speed Radar - Serial number:	38148-01280
Tracking Radar - Serial number:	38147-00103
Date of calibration:	11/02/2021
Certificate Number:	CV10103159
Calibration carried out by:	John Campbell
Signature:	
Checked By:	Ron Moore
Signature:	



CERTIFICATION RECORD

CALIBRATION CERTIFICATE NUMBER:	CV10103159	REFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00306
SR CERTIFICATE NUMBER:	<i>705077</i>	SERIAL NUMBER:	<i>38148-01280</i>
PRODUCT MODEL:	AGD SR-340		
FIRMWARE VERSION:	<i>MI-096-1</i>	TEST SOFTWARE VERSION:	<i>1.3.1.7</i>
DATE OF CERTIFICATION:	<i>11 February 2021</i>	RADAR TEMPERATURE (°C):	<i>29.50</i>
RELATIVE HUMIDITY (%):	<i>44.10</i>	AMBIENT TEMPERATURE (°C):	<i>15.90</i>

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

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

DESCRIPTION	MEASURED	LIMITS	
TRANSMIT FREQUENCY MEASUREMENT (GHz)	<i>24.08327866</i>	24.080 - 24.120	<i>Pass</i>

TRACEABILITY RECORDS OF INSTRUMENTS USED IN CERTIFICATION TEST

INSTRUMENT DESCRIPTION:	SERIAL NUMBER:	CALIBRATION CERTIFICATE NUMBER:	NEXT CALIBRATION DUE DATE:
TEKTRONIX AFG3022B Function Generator	<i>C037185</i>	<i>20080039</i>	<i>06th August 2021</i>
PENDULUM CNT-90XL Frequency Counter	<i>178903</i>	<i>3400920001</i>	<i>09th October 2021</i>
FLUKE 971 Temperature Humidity Meter	<i>17580804</i>	<i>20080040</i>	<i>05th August 2021</i>
AGD MC-116 Target Simulator	<i>117117-00017</i>	<i>116062</i>	<i>25th September 2022</i>

CERTIFICATION TEST CARRIED OUT BY:	John Campbell	NEXT CERTIFICATION TEST DUE:	10 February 2022
CHECKED BY	Ron Moore	<i>Template V20201215RX (SR)</i>	



SPEED MEASUREMENT

CALIBRATION CERTIFICATE NUMBER:	CV10103159	REDFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00306
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SERIAL NO: 38148-01280

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	31.04	31.01	31.04	30.76 - 31.38	Pass
37.28	37.28	37.28	37.28	37.28	36.97 - 37.59	Pass
43.50	43.43	43.45	43.43	43.45	43.19 - 43.81	Pass
49.71	49.71	49.71	49.71	49.71	49.40 - 50.02	Pass
55.92	55.86	55.87	55.86	55.87	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	86.99	86.99	86.99	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	99.42	99.36	99.42	99.11 - 99.73	Pass
105.63	105.57	105.57	105.57	105.57	105.32 - 105.94	Pass
111.85	111.78	111.83	111.78	111.83	111.54 - 112.16	Pass
118.06	118.00	118.00	118.00	118.00	117.75 - 118.37	Pass
124.27	124.21	124.22	124.21	124.22	123.96 - 124.58	Pass
136.70	136.64	136.64	136.64	136.64	136.39 - 137.01	Pass
149.13	149.07	149.07	149.07	149.07	148.82 - 149.44	Pass
161.56	161.49	161.49	161.49	161.49	161.25 - 161.87	Pass
173.98	173.86	173.92	173.86	173.92	173.67 - 174.29	Pass
186.41	186.29	186.34	186.29	186.34	186.10 - 186.72	Pass

Template V20201215RX (SR)



CERTIFICATION RECORD

CALIBRATION CERTIFICATE NUMBER:	CV10103159	REDFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00306
TR CERTIFICATE NUMBER:	31700113	SERIAL NUMBER:	38147-00103
PRODUCT MODEL:	AGD TR-317		
BIOS VERSION:	MI-135-7	DSP SOFTWARE VERSION:	MI-144-9
PIC FIRMWARE VERSION:	N/A	TEST SOFTWARE VERSION:	1.3.1.7
DATE OF CERTIFICATION:	11 February 2021	RADAR TEMPERATURE (°C):	N/A
RELATIVE HUMIDITY (%):	41.60	AMBIENT TEMPERATURE (°C):	16.20
CALIBRATED BANDWIDTH (MHz):	41.30		
CERTIFICATION TEST PROCEDURE REFERENCE:	See 1201-007 REDFLEXradar-Certification System User Manual		
DESCRIPTION	COMMENT		
EQUIPMENT TESTS			<i>Pass</i>
VISUAL INSPECTION			<i>Pass</i>
SPEED AND RANGE MEASUREMENTS			<i>Pass</i>
DESCRIPTION	MEASURED	LIMITS	PASS/FAIL
TRANSMIT FREQUENCY MEASUREMENT (GHz)	24.12441575	24.123 - 24.127	<i>Pass</i>
BANDWIDTH MEASUREMENT (MHz)	41.40	39.00 - 44.00	<i>Pass</i>
TRACEABILITY RECORDS OF INSTRUMENTS USED IN CERTIFICATION TEST			
INSTRUMENT DESCRIPTION:	SERIAL NUMBER:	CALIBRATION CERTIFICATE NUMBER:	NEXT CALIBRATION DUE DATE:
TEKTRONIX AFG3022B Function Generator	C037185	20080039	06th August 2021
PENDULUM CNT-90XL Frequency Counter	178903	3400920001	09th October 2021
FLUKE 971 Temperature Humidity Meter	17580804	20080040	05th August 2021
AGD MC-116 Target Simulator	117117-00017	116062	25th September 2022
CERTIFICATION TEST CARRIED OUT BY:	John Campbell	NEXT CERTIFICATION TEST DUE:	10 February 2022
CHECKED BY:	Ron Moore	<i>Template V20201215RX (TR)</i>	



SPEED AND RANGE MEASUREMENT

CALIBRATION CERTIFICATE NUMBER:	CV10103159	REFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00306
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SERIAL NO: 38147-00103

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	23.90	31.07	23.80	31.01	22.10 - 25.50	30.76 - 31.38	Pass
23.80	62.14	24.00	62.20	23.70	62.07	22.10 - 25.50	61.83 - 62.45	Pass
23.80	93.21	24.06	93.33	23.62	93.27	22.10 - 25.50	92.89 - 93.52	Pass
23.80	124.27	24.10	124.34	23.60	124.30	22.10 - 25.50	123.96 - 124.58	Pass
23.80	155.34	24.09	155.40	23.63	155.34	22.10 - 25.50	155.03 - 155.65	Pass
23.80	186.41	24.01	186.47	23.68	186.39	22.10 - 25.50	186.10 - 186.72	Pass
51.00	7.46	51.10	7.58	51.10	7.43	49.30 - 52.70	7.15 - 7.77	Pass
51.00	12.43	51.10	12.55	51.10	12.30	49.30 - 52.70	12.12 - 12.74	Pass
51.00	18.64	51.15	18.77	51.07	18.64	49.30 - 52.70	18.33 - 18.95	Pass
51.00	24.85	51.20	24.92	51.02	24.79	49.30 - 52.70	24.54 - 25.17	Pass
51.00	31.07	51.20	31.12	51.01	30.94	49.30 - 52.70	30.76 - 31.38	Pass
51.00	37.28	51.20	37.41	51.00	37.16	49.30 - 52.70	36.97 - 37.59	Pass
51.00	43.50	51.20	43.62	51.00	43.50	49.30 - 52.70	43.19 - 43.81	Pass
51.00	49.71	51.20	49.77	51.00	49.65	49.30 - 52.70	49.40 - 50.02	Pass
51.00	55.92	51.21	55.99	50.99	55.86	49.30 - 52.70	55.61 - 56.23	Pass
51.00	62.14	51.25	62.26	50.96	62.01	49.30 - 52.70	61.83 - 62.45	Pass
51.00	68.35	51.26	68.48	50.95	68.35	49.30 - 52.70	68.04 - 68.66	Pass
51.00	74.56	51.27	74.63	50.90	74.56	49.30 - 52.70	74.25 - 74.88	Pass
51.00	80.78	51.27	80.84	50.92	80.72	49.30 - 52.70	80.47 - 81.09	Pass
51.00	86.99	51.29	87.12	50.91	86.87	49.30 - 52.70	86.68 - 87.30	Pass
51.00	93.21	51.28	93.34	50.91	93.21	49.30 - 52.70	92.89 - 93.52	Pass
51.00	99.42	51.30	99.54	50.91	99.42	49.30 - 52.70	99.11 - 99.73	Pass
51.00	105.63	51.30	105.70	50.90	105.57	49.30 - 52.70	105.32 - 105.94	Pass
51.00	111.85	51.31	111.97	50.90	111.74	49.30 - 52.70	111.54 - 112.16	Pass
51.00	118.06	51.30	118.24	50.90	118.06	49.30 - 52.70	117.75 - 118.37	Pass
51.00	124.27	51.31	124.40	50.90	124.27	49.30 - 52.70	123.96 - 124.58	Pass
51.00	136.70	51.31	136.83	50.90	136.63	49.30 - 52.70	136.39 - 137.01	Pass
51.00	149.13	51.30	149.25	50.89	149.13	49.30 - 52.70	148.82 - 149.44	Pass
51.00	161.56	51.30	161.68	50.89	161.49	49.30 - 52.70	161.25 - 161.87	Pass
51.00	173.98	51.28	174.11	50.91	173.98	49.30 - 52.70	173.67 - 174.29	Pass
51.00	186.41	51.27	186.54	50.95	186.35	49.30 - 52.70	186.10 - 186.72	Pass
81.60	31.07	81.81	31.13	81.70	30.94	79.90 - 83.30	30.76 - 31.38	Pass
81.60	62.14	81.90	62.32	81.60	61.97	79.90 - 83.30	61.83 - 62.45	Pass
81.60	93.21	81.95	93.39	81.58	93.14	79.90 - 83.30	92.89 - 93.52	Pass
81.60	124.27	81.98	124.40	81.54	124.21	79.90 - 83.30	123.96 - 124.58	Pass
81.60	155.34	81.98	155.47	81.51	155.28	79.90 - 83.30	155.03 - 155.65	Pass
81.60	186.41	81.92	186.60	81.59	186.29	79.90 - 83.30	186.10 - 186.72	Pass

Template V20201215RX (TR)