





**Certificate of Compliance
for the
Callibration 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 callibrated 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:	3898B - M1
Redflex HADECS3X NK7 serial number:	HAD00187
Speed Radar - Serial number:	36407-01192
Tracking Radar - Serial number:	36408-00019
Date of calibration:	11/01/2022
Certificate Number:	CV10103344
Callibration carried out by:	Martin Watson
Signature:	
Checked By:	Ron Moore
Signature:	

Redflex
For a World on the Move

CERTIFICATION RECORD

CALIBRATION CERTIFICATE NUMBER:	CV10103344	REFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00187
SR CERTIFICATE NUMBER:	705176	SERIAL NUMBER:	36407-01192
PRODUCT MODEL:	AGD SR-340		
FIRMWARE VERSION:	MI-096-1	TEST SOFTWARE VERSION:	1.3.1.7
DATE OF CERTIFICATION:	11 January 2022	RADAR TEMPERATURE (°C):	28.25
RELATIVE HUMIDITY (%):	71.00	AMBIENT TEMPERATURE (°C):	18.60
CERTIFICATION TEST PROCEDURE REFERENCE:	See 1201-007 REDFLEXradar-Certification System User Manual		
DESCRIPTION	COMMENT		Pass/Fail
EQUIPMENT TESTS			Pass
VISUAL INSPECTION			Pass
SPEED MEASUREMENTS			Pass
DESCRIPTION	MEASURED	LIMITS	
TRANSMIT FREQUENCY MEASUREMENT (GHz)	24.09061124	24.080 - 24.120	Pass
TRACEABILITY RECORDS OF INSTRUMENTS USED IN CERTIFICATION TEST			
INSTRUMENT DESCRIPTION:	SERIAL NUMBER:	CALIBRATION CERTIFICATE NUMBER:	NEXT CALIBRATION DUE DATE:
TEKTRONIX AFG3022B Function Generator	C037185	21081150	19th August 2022
PENDULUM CNT-90XL Frequency Counter	178903	3690360001	01st November 2022
FLUKE 971 Temperature Humidity Meter	17580804	21100752	14th October 2022
AGD MC-116 Target Simulator	117117-00017	116062	25th September 2022
CERTIFICATION TEST CARRIED OUT BY:	Martin Watson	NEXT CERTIFICATION TEST DUE:	10 January 2023
CHECKED BY	Ron Moore	Template V20211125RX (SR)	



SPEED MEASUREMENT

CALIBRATION CERTIFICATE NUMBER:	CV10103344	REDFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00187
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SERIAL NO: 36407-01192

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	55.86	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	86.99	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	99.41	99.36	99.41	99.11 - 99.73	Pass
105.63	105.57	105.57	105.57	105.57	105.32 - 105.94	Pass
111.85	111.78	111.82	111.78	111.82	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	124.22	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	161.43	161.49	161.43	161.49	161.25 - 161.87	Pass
173.98	173.86	173.91	173.86	173.91	173.67 - 174.29	Pass
186.41	186.29	186.31	186.29	186.32	186.10 - 186.72	Pass

Template V20211125RX (SR)



CERTIFICATION RECORD

CALIBRATION CERTIFICATE NUMBER:	CV10103344	REDFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00187
TR CERTIFICATE NUMBER:	31700183	SERIAL NUMBER:	36408-00019
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 January 2022	RADAR TEMPERATURE (°C):	N/A
RELATIVE HUMIDITY (%):	75.00	AMBIENT TEMPERATURE (°C):	17.30
CALIBRATED BANDWIDTH (MHz):	41.10		
CERTIFICATION TEST PROCEDURE REFERENCE:	See 1201-007 REDFLEXradar-Certification System User Manual		
DESCRIPTION	COMMENT		
EQUIPMENT TESTS			Pass
VISUAL INSPECTION			Pass
SPEED AND RANGE MEASUREMENTS			Pass
DESCRIPTION	MEASURED	LIMITS	PASS/FAIL
TRANSMIT FREQUENCY MEASUREMENT (GHz)	24.12417170	24.123 - 24.127	Pass
BANDWIDTH MEASUREMENT (MHz)	41.60	39.00 - 44.00	Pass
TRACEABILITY RECORDS OF INSTRUMENTS USED IN CERTIFICATION TEST			
INSTRUMENT DESCRIPTION:	SERIAL NUMBER:	CALIBRATION CERTIFICATE NUMBER:	NEXT CALIBRATION DUE DATE:
TEKTRONIX AFG3022B Function Generator	C037185	21081150	19th August 2022
PENDULUM CNT-90XL Frequency Counter	178903	3690360001	01st November 2022
FLUKE 971 Temperature Humidity Meter	17580804	21100752	14th October 2022
AGD MC-116 Target Simulator	117117-00017	116062	25th September 2022
CERTIFICATION TEST CARRIED OUT BY:	Martin Watson	NEXT CERTIFICATION TEST DUE:	10 January 2023
CHECKED BY:	Ron Moore	Template V20211125RX (TR)	



SPEED AND RANGE MEASUREMENT

CALIBRATION CERTIFICATE NUMBER:	CV10103344	REDFLEX HADECS3X NK7 SERIAL NUMBER:	HAD00187
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SERIAL NO: 36408-00019

Simulated Range (m)	Simulated Speed (mph)	Measured Advancing Range (m)	Measured Advancing Speed (mph)	Measured Receding Range (m)	Measured Receding Speed (mph)	Range Limits (m)	Speed Limits (mph)	Pass/Fail
23.80	31.07	24.00	31.07	23.70	31.01	22.10 - 25.50	30.76 - 31.38	Pass
23.80	62.14	24.10	62.14	23.60	62.14	22.10 - 25.50	61.83 - 62.45	Pass
23.80	93.21	24.12	93.33	23.56	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	186.45	23.60	186.41	22.10 - 25.50	186.10 - 186.72	Pass
51.00	7.46	51.10	7.52	51.10	7.46	49.30 - 52.70	7.15 - 7.77	Pass
51.00	12.43	51.11	12.49	51.09	12.37	49.30 - 52.70	12.12 - 12.74	Pass
51.00	18.64	51.20	18.70	51.00	18.65	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	51.27	43.59	50.93	43.56	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	51.34	74.63	50.86	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	105.59	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	50.79	118.12	49.30 - 52.70	117.75 - 118.37	Pass
51.00	124.27	51.45	124.34	50.75	124.34	49.30 - 52.70	123.96 - 124.58	Pass
51.00	136.70	51.49	136.76	50.73	136.66	49.30 - 52.70	136.39 - 137.01	Pass
51.00	149.13	51.47	149.20	50.72	149.19	49.30 - 52.70	148.82 - 149.44	Pass
51.00	161.56	51.41	161.62	50.78	161.54	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	51.38	186.47	50.81	186.41	49.30 - 52.70	186.10 - 186.72	Pass
81.60	31.07	81.90	31.07	81.65	31.01	79.90 - 83.30	30.76 - 31.38	Pass
81.60	62.14	82.00	62.20	81.53	62.07	79.90 - 83.30	61.83 - 62.45	Pass
81.60	93.21	82.08	93.33	81.50	93.25	79.90 - 83.30	92.89 - 93.52	Pass
81.60	124.27	82.10	124.35	81.40	124.27	79.90 - 83.30	123.96 - 124.58	Pass
81.60	155.34	82.10	155.40	81.40	155.34	79.90 - 83.30	155.03 - 155.65	Pass
81.60	186.41	82.00	186.47	81.50	186.35	79.90 - 83.30	186.10 - 186.72	Pass

Template V20211125RX (TR)