VIVAX METROTECH

Calibration Certificate

RDG SUPPLY SDN BHD
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58200 Kuala Lumpur, MALAYSIA
Tel: +60 3 7980 7788
e-mail: ricky.douglas@rdg.com.my
http: www.rdg.com.my

Manufacturer:	Vivax-Metrotech	**Model:**	vLoc3-Pro
Serial No.:	21901153421	**Asset No.:**	
Work Order:	RDG_240066-JL GLOBAL INV	**Report No.:**	
Customer:	JL GLOBAL INVISION SB		

We certify that the instrument meets or exceeds the manufacturer published electrical specifications at the points tested. All measurements are traceable to national or international standards or have been derived by approved ratio techniques. This certificate may not be reproduced other than in full.

Calibration Information

Calibration Date: 11-NOV-2024 13:10:42 Status: Passed

Top Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.52200568	ok	0.52197069	ok	0.62175167	ok
		Low	0.01208154	ok	0.01209049	ok	0.01446505	ok
4096	38.9	High	0.51786500	ok	0.51667434	ok	0.59011406	ok
		Low	0.01205968	ok	0.01204465	ok	0.01382810	ok
8150	20.9	High	0.50929743	ok	0.50721395	ok	0.54127127	ok
		Low	0.01208874	ok	0.01205669	ok	0.01295689	ok
10000	18.1	High	0.51786524	ok	0.51555151	ok	0.53407854	ok
		Low	0.01244731	ok	0.01241214	ok	0.01289895	ok
10001	66.8	High	0.48273998	ok	0.47716579	ok	0.60853773	ok
		Low	0.01161080	ok	0.01148722	ok	0.01470512	ok
32788	26.4	High	0.48087019	ok	0.47250047	ok	0.59912097	ok
		Low	0.01519438	ok	0.01496770	ok	0.01899914	ok
65500	19.9	High	0.48453695	ok	0.47582799	ok	0.60206968	ok
		Low	0.02363502	ok	0.02329413	ok	0.02933822	ok
83000	18.9	High	0.49567938	ok	0.48798677	ok	0.59706646	ok
		Low	0.02930636	ok	0.02896530	ok	0.03526076	ok
131000	18.1	High	0.49869242	ok	0.49318272	ok	0.47513872	ok
		Low	0.04440041	ok	0.04409702	ok	0.04217102	ok
199980	21.2	High	0.44584572	ok	0.43158904	ok	0.30771562	ok
		Low	0.05958954	ok	0.05795686	ok	0.04081869	ok

Bottom Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.50965559	ok	0.51935691	ok	0.62119877	ok
		Low	0.01180824	ok	0.01200401	ok	0.01444633	ok
4096	38.9	High	0.50563937	ok	0.51494569	ok	0.58820421	ok
		Low	0.01179004	ok	0.01197995	ok	0.01379070	ok
8150	20.9	High	0.49822086	ok	0.50648171	ok	0.53705657	ok
		Low	0.01184880	ok	0.01201947	ok	0.01286637	ok
10000	18.1	High	0.50723344	ok	0.51523638	ok	0.52892566	ok
		Low	0.01222076	ok	0.01238739	ok	0.01284940	ok
10001	66.8	High	0.46410877	ok	0.47462326	ok	0.60743111	ok

		Low	0.01118612	ok	0.01141460	ok	0.01471093	ok
32788	26.4	High	0.45880824	ok	0.46887660	ok	0.58812630	ok
		Low	0.01462828	ok	0.01490160	ok	0.01897840	ok
65500	19.9	High	0.46069252	ok	0.47105539	ok	0.57994807	ok
		Low	0.02280233	ok	0.02322439	ok	0.02921805	ok
83000	18.9	High	0.47204563	ok	0.48258671	ok	0.57468063	ok
		Low	0.02835062	ok	0.02886782	ok	0.03520826	ok
131000	18.1	High	0.48060206	ok	0.48944622	ok	0.45501083	ok
		Low	0.04352513	ok	0.04414733	ok	0.04208270	ok
199980	21.2	High	0.43683454	ok	0.43763351	ok	0.29760918	ok
		Low	0.05943407	ok	0.05928346	ok	0.04106620	ok

Alignment Matrix

Position	Coil	X response	Y response	Z response
Top	X	0.99998140	0.00209195	-0.00368479
	Y	0.00223541	0.99998462	-0.00254828
	Z	0.00633629	0.00790584	0.99995661
Bottom	X	0.99991047	-0.00626615	0.00550114
	Y	0.00867172	0.99993157	-0.00340057
	Z	-0.00636953	0.00407582	0.99995089

B/T Antenna Balance

Frequency	Current(mA)	Gain	H ratio		V ratio		90 ratio	
1024	152.0	High	0.9763411	ok	0.9949925	ok	0.9991107	ok
		Low	0.9773787	ok	0.9928473	ok	0.9987058	ok
4096	38.9	High	0.9763922	ok	0.9966543	ok	0.9967636	ok
		Low	0.9776412	ok	0.9946283	ok	0.9972954	ok
8150	20.9	High	0.9782513	ok	0.9985563	ok	0.9922133	ok
		Low	0.9801518	ok	0.9969129	ok	0.9930138	ok
10000	18.1	High	0.9794699	ok	0.9993888	ok	0.9903518	ok
		Low	0.9817993	ok	0.9980060	ok	0.9961586	ok
10001	66.8	High	0.9614053	ok	0.9946716	ok	0.9981815	ok
		Low	0.9634237	ok	0.9936782	ok	1.0003951	ok
32788	26.4	High	0.9541208	ok	0.9923304	ok	0.9816487	ok
		Low	0.9627428	ok	0.9955838	ok	0.9989084	ok
65500	19.9	High	0.9507892	ok	0.9899699	ok	0.9632574	ok
		Low	0.9647688	ok	0.9970061	ok	0.9959040	ok
83000	18.9	High	0.9523205	ok	0.9889340	ok	0.9625070	ok
		Low	0.9673880	ok	0.9966346	ok	0.9985111	ok
131000	18.1	High	0.9637244	ok	0.9924237	ok	0.9576379	ok
		Low	0.9802867	ok	1.0011409	ok	0.9979057	ok
199980	21.2	High	0.9797886	ok	1.0140052	ok	0.9671566	ok
		Low	0.9973910	ok	1.0228894	ok	1.0060636	ok

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Calibration Certificate

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http: www.rdg.com.my

Manufacturer:	Vivax-Metrotech	**Model:**	vLoc3-Pro
Serial No.:	21901162190	**Asset No.:**	
Work Order:	RDG_240050-JL GLOBAL INV	**Report No.:**	
Customer:	JL GLOBAL INVISION SB.		

We certify that the instrument meets or exceeds the manufacturer published electrical specifications at the points tested. All measurements are traceable to national or international standards or have been derived by approved ratio techniques. This certificate may not be reproduced other than in full.

Calibration Information

Calibration Date: 10-SEP-2024 11:38:08 Status: Passed

Top Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.49848235	ok	0.51014411	ok	0.62403595	ok
		Low	0.01154075	ok	0.01181757	ok	0.01447670	ok
4096	38.9	High	0.49528861	ok	0.50496364	ok	0.60003728	ok
		Low	0.01154003	ok	0.01177787	ok	0.01400573	ok
8150	20.9	High	0.48890731	ok	0.49594504	ok	0.55559963	ok
		Low	0.01162021	ok	0.01180953	ok	0.01321279	ok
10000	18.1	High	0.49817917	ok	0.50420177	ok	0.54862648	ok
		Low	0.01199623	ok	0.01217041	ok	0.01321387	ok
10001	66.8	High	0.45255780	ok	0.45953599	ok	0.61146891	ok
		Low	0.01090479	ok	0.01109503	ok	0.01473629	ok
32788	26.4	High	0.44638076	ok	0.44810614	ok	0.60669547	ok
		Low	0.01424642	ok	0.01441446	ok	0.01916757	ok
65500	19.9	High	0.44853091	ok	0.44720271	ok	0.60738868	ok
		Low	0.02223811	ok	0.02246055	ok	0.02960145	ok
83000	18.9	High	0.45758554	ok	0.45559388	ok	0.60262328	ok
		Low	0.02754026	ok	0.02780063	ok	0.03558628	ok
131000	18.1	High	0.46903351	ok	0.46405748	ok	0.49209508	ok
		Low	0.04258804	ok	0.04277172	ok	0.04375339	ok
199980	21.2	High	0.43594530	ok	0.42083934	ok	0.33021399	ok
		Low	0.05951982	ok	0.05834417	ok	0.04387811	ok

Bottom Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.50321484	ok	0.50138044	ok	0.62557465	ok
		Low	0.01165532	ok	0.01165525	ok	0.01458973	ok
4096	38.9	High	0.49952769	ok	0.49713588	ok	0.60082299	ok
		Low	0.01163958	ok	0.01163322	ok	0.01411376	ok
8150	20.9	High	0.49289384	ok	0.48901638	ok	0.55565441	ok
		Low	0.01170113	ok	0.01167663	ok	0.01331812	ok
10000	18.1	High	0.50226206	ok	0.49749595	ok	0.54848236	ok
		Low	0.01207096	ok	0.01203747	ok	0.01332642	ok
10001	66.8	High	0.45823833	ok	0.45366120	ok	0.61115849	ok

		Low	0.01102066	ok	0.01098179	ok	0.01480679	ok
32788	26.4	High	0.45635480	ok	0.44516432	ok	0.60328943	ok
		Low	0.01435705	ok	0.01429251	ok	0.01922328	ok
65500	19.9	High	0.46072453	ok	0.44531751	ok	0.60361528	ok
		Low	0.02230723	ok	0.02224134	ok	0.02974825	ok
83000	18.9	High	0.46964473	ok	0.45338327	ok	0.59932482	ok
		Low	0.02754137	ok	0.02749384	ok	0.03586109	ok
131000	18.1	High	0.47985771	ok	0.46171319	ok	0.48893750	ok
		Low	0.04235013	ok	0.04225561	ok	0.04405577	ok
199980	21.2	High	0.45384100	ok	0.42647979	ok	0.32555264	ok
		Low	0.06016825	ok	0.05867947	ok	0.04374031	ok

Alignment Matrix

Position	Coil	X response	Y response	Z response
Top	X	1.00002873	0.00581616	-0.00430734
	Y	0.00405737	1.00000429	-0.00223384
	Z	-0.00115488	0.00873216	0.99998569
Bottom	X	0.99993742	-0.00573426	0.00740930
	Y	0.01142081	0.99992484	-0.00182586
	Z	0.00044999	0.00508052	0.99999368

B/T Antenna Balance

Frequency	Current(mA)	Gain	H ratio		V ratio		90 ratio	
1024	152.0	High	1.0094938	ok	0.9828212	ok	1.0024657	ok
		Low	1.0099274	ok	0.9862645	ok	1.0078077	ok
4096	38.9	High	1.0085588	ok	0.9844984	ok	1.0013094	ok
		Low	1.0086265	ok	0.9877185	ok	1.0077133	ok
8150	20.9	High	1.0081540	ok	0.9860294	ok	1.0000986	ok
		Low	1.0069637	ok	0.9887464	ok	1.0079718	ok
10000	18.1	High	1.0081956	ok	0.9867001	ok	0.9997373	ok
		Low	1.0062295	ok	0.9890768	ok	1.0085176	ok
10001	66.8	High	1.0125521	ok	0.9872158	ok	0.9994923	ok
		Low	1.0106256	ok	0.9897936	ok	1.0047841	ok
32788	26.4	High	1.0223442	ok	0.9934350	ok	0.9943859	ok
		Low	1.0077655	ok	0.9915397	ok	1.0029065	ok
65500	19.9	High	1.0271857	ok	0.9957845	ok	0.9937875	ok
		Low	1.0031082	ok	0.9902402	ok	1.0049592	ok
83000	18.9	High	1.0263540	ok	0.9951478	ok	0.9945265	ok
		Low	1.0000403	ok	0.9889646	ok	1.0077224	ok
131000	18.1	High	1.0230777	ok	0.9949483	ok	0.9935834	ok
		Low	0.9944137	ok	0.9879334	ok	1.0069110	ok
199980	21.2	High	1.0410503	ok	1.0134029	ok	0.9858839	ok
		Low	1.0108944	ok	1.0057469	ok	0.9968595	ok

VIVAX METROTECH

Calibration Certificate

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e-mail: ricky.douglas@rdg.com.my
http: www.rdg.com.my

Manufacturer:	Vivax-Metrotech	**Model:**	vLoc3-Pro
Serial No.:	21901171838	**Asset No.:**	
Work Order:	RDG_240050-JL GLOBAL INV	**Report No.:**	
Customer:	JL GLOBAL INVISION S.B		

We certify that the instrument meets or exceeds the manufacturer published electrical specifications at the points tested. All measurements are traceable to national or international standards or have been derived by approved ratio techniques. This certificate may not be reproduced other than in full.

Calibration Information

Calibration Date: 18-SEP-2024 10:17:47 Status: Passed

Top Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.50873160	ok	0.52331072	ok	0.63824153	ok
		Low	0.01181927	ok	0.01216845	ok	0.01482529	ok
4096	38.9	High	0.50500256	ok	0.51786315	ok	0.61841607	ok
		Low	0.01180276	ok	0.01211257	ok	0.01445098	ok
8150	20.9	High	0.49970877	ok	0.51064509	ok	0.57762903	ok
		Low	0.01189519	ok	0.01215977	ok	0.01375362	ok
10000	18.1	High	0.50713778	ok	0.51759475	ok	0.56906778	ok
		Low	0.01221902	ok	0.01247222	ok	0.01371815	ok
10001	66.8	High	0.46382654	ok	0.47652936	ok	0.62755501	ok
		Low	0.01118292	ok	0.01148161	ok	0.01511816	ok
32788	26.4	High	0.46444488	ok	0.47815847	ok	0.63060880	ok
		Low	0.01460471	ok	0.01492232	ok	0.01982317	ok
65500	19.9	High	0.47179368	ok	0.48844713	ok	0.63441908	ok
		Low	0.02277016	ok	0.02326623	ok	0.03062538	ok
83000	18.9	High	0.48148578	ok	0.49949661	ok	0.62906641	ok
		Low	0.02812790	ok	0.02875643	ok	0.03677326	ok
131000	18.1	High	0.49346343	ok	0.51108897	ok	0.51395845	ok
		Low	0.04334141	ok	0.04418788	ok	0.04516327	ok
199980	21.2	High	0.45885897	ok	0.46182171	ok	0.34424454	ok
		Low	0.06049095	ok	0.05991593	ok	0.04518722	ok

Bottom Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.51465231	ok	0.51980805	ok	0.63227129	ok
		Low	0.01196594	ok	0.01210489	ok	0.01469917	ok
4096	38.9	High	0.51054168	ok	0.51507443	ok	0.61265278	ok
		Low	0.01194174	ok	0.01206727	ok	0.01432404	ok
8150	20.9	High	0.50471771	ok	0.50804919	ok	0.57247525	ok
		Low	0.01202316	ok	0.01212406	ok	0.01363254	ok
10000	18.1	High	0.51202202	ok	0.51490146	ok	0.56416303	ok
		Low	0.01234530	ok	0.01243915	ok	0.01359704	ok
10001	66.8	High	0.46737278	ok	0.47382787	ok	0.62287349	ok

		Low	0.01127762	ok	0.01145072	ok	0.01500842	ok
32788	26.4	High	0.46812564	ok	0.47380838	ok	0.63036078	ok
		Low	0.01472646	ok	0.01492075	ok	0.01974365	ok
65500	19.9	High	0.47692806	ok	0.48234624	ok	0.64419776	ok
		Low	0.02302124	ok	0.02330078	ok	0.03090155	ok
83000	18.9	High	0.48800337	ok	0.49293429	ok	0.64134324	ok
		Low	0.02851118	ok	0.02882125	ok	0.03723723	ok
131000	18.1	High	0.50096166	ok	0.50419503	ok	0.51193768	ok
		Low	0.04400679	ok	0.04433225	ok	0.04466663	ok
199980	21.2	High	0.45500311	ok	0.45373955	ok	0.32685962	ok
		Low	0.05997222	ok	0.05986392	ok	0.04251087	ok

Alignment Matrix

Position	Coil	X response	Y response	Z response
Top	X	0.99994159	-0.00556845	-0.00503474
	Y	0.00612469	0.99995577	-0.00133521
	Z	0.00487329	0.00770388	0.99996531
Bottom	X	0.99994779	-0.00602159	-0.00229938
	Y	0.00807638	0.99995136	0.00009806
	Z	0.00157652	-0.00069660	0.99999630

B/T Antenna Balance

Frequency	Current(mA)	Gain	H ratio		V ratio		90 ratio	
1024	152.0	High	1.0116382	ok	0.9933067	ok	0.9906458	ok
		Low	1.0124094	ok	0.9947767	ok	0.9914929	ok
4096	38.9	High	1.0109685	ok	0.9946149	ok	0.9906806	ok
		Low	1.0117752	ok	0.9962601	ok	0.9912158	ok
8150	20.9	High	1.0100237	ok	0.9949164	ok	0.9910777	ok
		Low	1.0107581	ok	0.9970633	ok	0.9911965	ok
10000	18.1	High	1.0096310	ok	0.9947965	ok	0.9913811	ok
		Low	1.0103347	ok	0.9973485	ok	0.9911716	ok
10001	66.8	High	1.0076456	ok	0.9943309	ok	0.9925401	ok
		Low	1.0084683	ok	0.9973096	ok	0.9927412	ok
32788	26.4	High	1.0079251	ok	0.9909024	ok	0.9996067	ok
		Low	1.0083364	ok	0.9998948	ok	0.9959885	ok
65500	19.9	High	1.0108827	ok	0.9875096	ok	1.0154136	ok
		Low	1.0110267	ok	1.0014850	ok	1.0090177	ok
83000	18.9	High	1.0135364	ok	0.9868621	ok	1.0195160	ok
		Low	1.0136263	ok	1.0022541	ok	1.0126170	ok
131000	18.1	High	1.0151951	ok	0.9865113	ok	0.9960682	ok
		Low	1.0153521	ok	1.0032672	ok	0.9890035	ok
199980	21.2	High	0.9915969	ok	0.9824994	ok	0.9494983	ok
		Low	0.9914247	ok	0.9991320	ok	0.9407720	ok

VIVAX METROTECH

Calibration Certificate

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http: www.rdg.com.my

Manufacturer:	Vivax-Metrotech	**Model:**	vLoc3-Pro
Serial No.:	21901171837	**Asset No.:**	
Work Order:	RDG_240063-JL GLOBAL INV	**Report No.:**	
Customer:	JL GLOBAL INVISION SB.		

We certify that the instrument meets or exceeds the manufacturer published electrical specifications at the points tested. All measurements are traceable to national or international standards or have been derived by approved ratio techniques. This certificate may not be reproduced other than in full.

Calibration Information

Calibration Date: 07-NOV-2024 12:07:07 Status: Passed

Top Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.51225978	ok	0.51442230	ok	0.63942254	ok
		Low	0.01190695	ok	0.01192780	ok	0.01482535	ok
4096	38.9	High	0.50635493	ok	0.50923550	ok	0.60805768	ok
		Low	0.01185883	ok	0.01187810	ok	0.01421088	ok
8150	20.9	High	0.50226778	ok	0.50251979	ok	0.55996168	ok
		Low	0.01195110	ok	0.01193995	ok	0.01334837	ok
10000	18.1	High	0.50956172	ok	0.50956911	ok	0.54993469	ok
		Low	0.01228058	ok	0.01225534	ok	0.01327362	ok
10001	66.8	High	0.46694571	ok	0.46542269	ok	0.62456226	ok
		Low	0.01125478	ok	0.01119648	ok	0.01501585	ok
32788	26.4	High	0.46799800	ok	0.46429935	ok	0.61729324	ok
		Low	0.01465788	ok	0.01454080	ok	0.01934592	ok
65500	19.9	High	0.47457179	ok	0.47172850	ok	0.61905313	ok
		Low	0.02276078	ok	0.02264688	ok	0.02978644	ok
83000	18.9	High	0.48412609	ok	0.48198944	ok	0.61485237	ok
		Low	0.02812063	ok	0.02799621	ok	0.03581754	ok
131000	18.1	High	0.49659592	ok	0.49499565	ok	0.50348705	ok
		Low	0.04337242	ok	0.04321571	ok	0.04407448	ok
199980	21.2	High	0.46065539	ok	0.45603758	ok	0.33666670	ok
		Low	0.06039275	ok	0.05977920	ok	0.04398808	ok

Bottom Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.51782316	ok	0.52314311	ok	0.63680214	ok
		Low	0.01204390	ok	0.01211939	ok	0.01482124	ok
4096	38.9	High	0.51340914	ok	0.51845336	ok	0.60914576	ok
		Low	0.01201474	ok	0.01208375	ok	0.01418279	ok
8150	20.9	High	0.50427157	ok	0.51140696	ok	0.55657101	ok
		Low	0.01203314	ok	0.01214556	ok	0.01329661	ok
10000	18.1	High	0.51184195	ok	0.51830840	ok	0.54658341	ok
		Low	0.01237202	ok	0.01246099	ok	0.01322970	ok
10001	66.8	High	0.47176218	ok	0.47527575	ok	0.61986452	ok

		Low	0.01139183	ok	0.01143128	ok	0.01494670	ok
32788	26.4	High	0.47098473	ok	0.47382241	ok	0.61339164	ok
		Low	0.01482582	ok	0.01489161	ok	0.01930472	ok
65500	19.9	High	0.47744361	ok	0.48107740	ok	0.61965704	ok
		Low	0.02314802	ok	0.02324636	ok	0.02996386	ok
83000	18.9	High	0.48651412	ok	0.49144405	ok	0.61599159	ok
		Low	0.02855803	ok	0.02875579	ok	0.03607529	ok
131000	18.1	High	0.49636531	ok	0.50267959	ok	0.49449542	ok
		Low	0.04382953	ok	0.04425656	ok	0.04353392	ok
199980	21.2	High	0.45510581	ok	0.45483771	ok	0.32019871	ok
		Low	0.06033105	ok	0.06008309	ok	0.04201234	ok

Alignment Matrix

Position	Coil	X response	Y response	Z response
Top	X	0.99996746	-0.00272410	-0.00528145
	Y	0.00197448	0.99996758	-0.00230530
	Z	0.00516891	0.01178067	0.99994564
Bottom	X	0.99993265	-0.00636053	-0.00002212
	Y	0.01061538	0.99993008	-0.00087354
	Z	-0.00545267	0.00273006	0.99999774

B/T Antenna Balance

Frequency	Current(mA)	Gain	H ratio		V ratio		90 ratio	
1024	152.0	High	1.0108605	ok	1.0169526	ok	0.9959019	ok
		Low	1.0115017	ok	1.0160625	ok	0.9997228	ok
4096	38.9	High	1.0139314	ok	1.0181014	ok	1.0017894	ok
		Low	1.0131472	ok	1.0173134	ok	0.9980233	ok
8150	20.9	High	1.0039895	ok	1.0176852	ok	0.9939448	ok
		Low	1.0068646	ok	1.0172203	ok	0.9961224	ok
10000	18.1	High	1.0044749	ok	1.0171504	ok	0.9939060	ok
		Low	1.0074459	ok	1.0167804	ok	0.9966912	ok
10001	66.8	High	1.0103148	ok	1.0211701	ok	0.9924783	ok
		Low	1.0121770	ok	1.0209709	ok	0.9953949	ok
32788	26.4	High	1.0063819	ok	1.0205106	ok	0.9936795	ok
		Low	1.0114573	ok	1.0241259	ok	0.9978704	ok
65500	19.9	High	1.0060514	ok	1.0198184	ok	1.0009755	ok
		Low	1.0170135	ok	1.0264708	ok	1.0059564	ok
83000	18.9	High	1.0049327	ok	1.0196158	ok	1.0018528	ok
		Low	1.0155544	ok	1.0271315	ok	1.0071962	ok
131000	18.1	High	0.9995356	ok	1.0155232	ok	0.9821413	ok
		Low	1.0105392	ok	1.0240850	ok	0.9877353	ok
199980	21.2	High	0.9879529	ok	0.9973689	ok	0.9510852	ok
		Low	0.9989784	ok	1.0050835	ok	0.9550847	ok

VIVAX METROTECH

Calibration Certificate

RDG SUPPLY SDN BHD
No.13-2, Kuchai Entrepreneur Park, Jalan Kuchai Maju 2
58200 Kuala Lumpur, MALAYSIA
Tel: +60 3 7980 7788
e-mail: ricky.douglas@rdg.com.my
http: www.rdg.com.my

Manufacturer:	Vivax-Metrotech	**Model:**	vLoc3-Pro
Serial No.:	21901203381	**Asset No.:**	
Work Order:	RDG_240059-JL GLOBAL INV	**Report No.:**	
Customer:	JL GLOBAL INVISION SB.		

We certify that the instrument meets or exceeds the manufacturer published electrical specifications at the points tested. All measurements are traceable to national or international standards or have been derived by approved ratio techniques. This certificate may not be reproduced other than in full.

Calibration Information

Calibration Date: 09-OCT-2024 15:08:05 Status: Passed

Top Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.51325178	ok	0.51852316	ok	0.63003552	ok
		Low	0.01189258	ok	0.01205923	ok	0.01464180	ok
4096	38.9	High	0.50883585	ok	0.51251352	ok	0.60396820	ok
		Low	0.01186223	ok	0.01199138	ok	0.01413003	ok
8150	20.9	High	0.50243437	ok	0.50468105	ok	0.55895162	ok
		Low	0.01193410	ok	0.01202915	ok	0.01334944	ok
10000	18.1	High	0.51151747	ok	0.51339221	ok	0.55164224	ok
		Low	0.01230119	ok	0.01238699	ok	0.01334659	ok
10001	66.8	High	0.46843073	ok	0.47418314	ok	0.62012321	ok
		Low	0.01126898	ok	0.01144504	ok	0.01494532	ok
32788	26.4	High	0.46668679	ok	0.47278455	ok	0.61243874	ok
		Low	0.01470477	ok	0.01487210	ok	0.01941143	ok
65500	19.9	High	0.47181374	ok	0.47984082	ok	0.61154503	ok
		Low	0.02289465	ok	0.02315765	ok	0.02992628	ok
83000	18.9	High	0.48081291	ok	0.49026614	ok	0.60455877	ok
		Low	0.02826269	ok	0.02863493	ok	0.03588942	ok
131000	18.1	High	0.48828077	ok	0.49836776	ok	0.48939016	ok
		Low	0.04319591	ok	0.04376472	ok	0.04378210	ok
199980	21.2	High	0.44825426	ok	0.44418570	ok	0.32576934	ok
		Low	0.05955770	ok	0.05854240	ok	0.04353376	ok

Bottom Coils

Frequency	Current(mA)	Gain	H response		V response		90 response	
1024	152.0	High	0.51072830	ok	0.51514566	ok	0.62700617	ok
		Low	0.01190999	ok	0.01196194	ok	0.01457200	ok
4096	38.9	High	0.50601643	ok	0.51017904	ok	0.59864336	ok
		Low	0.01187110	ok	0.01191895	ok	0.01401960	ok
8150	20.9	High	0.49976212	ok	0.50326300	ok	0.55288333	ok
		Low	0.01194260	ok	0.01197695	ok	0.01320207	ok
10000	18.1	High	0.50900805	ok	0.51234037	ok	0.54541779	ok
		Low	0.01231256	ok	0.01234214	ok	0.01318994	ok
10001	66.8	High	0.46653053	ok	0.46983767	ok	0.61407322	ok

		Low	0.01129195	ok	0.01132265	ok	0.01481515	ok
32788	26.4	High	0.46562383	ok	0.46903309	ok	0.60899156	ok
		Low	0.01471698	ok	0.01473205	ok	0.01917312	ok
65500	19.9	High	0.47144049	ok	0.47545448	ok	0.61263883	ok
		Low	0.02289533	ok	0.02290963	ok	0.02963726	ok
83000	18.9	High	0.48060068	ok	0.48498982	ok	0.60756963	ok
		Low	0.02825554	ok	0.02828084	ok	0.03558025	ok
131000	18.1	High	0.48918700	ok	0.49300191	ok	0.49008399	ok
		Low	0.04325241	ok	0.04321528	ok	0.04314665	ok
199980	21.2	High	0.45178303	ok	0.45135257	ok	0.32439268	ok
		Low	0.05997267	ok	0.05937720	ok	0.04254784	ok

Alignment Matrix

Position	Coil	X response	Y response	Z response
Top	X	0.99995291	-0.00330580	-0.01057781
	Y	0.00231668	0.99999022	-0.00051768
	Z	0.00374042	0.00431027	0.99995828
Bottom	X	0.99996412	-0.00873011	-0.00346171
	Y	0.00586815	0.99994183	-0.00155563
	Z	-0.00439989	0.00452631	1.00000834

B/T Antenna Balance

Frequency	Current(mA)	Gain	H ratio		V ratio		90 ratio	
1024	152.0	High	0.9950833	ok	0.9934863	ok	0.9951918	ok
		Low	1.0014639	ok	0.9919323	ok	0.9952328	ok
4096	38.9	High	0.9944591	ok	0.9954450	ok	0.9911836	ok
		Low	1.0007478	ok	0.9939598	ok	0.9921847	ok
8150	20.9	High	0.9946814	ok	0.9971902	ok	0.9891434	ok
		Low	1.0007122	ok	0.9956605	ok	0.9889606	ok
10000	18.1	High	0.9950942	ok	0.9979512	ok	0.9887165	ok
		Low	1.0009243	ok	0.9963793	ok	0.9882629	ok
10001	66.8	High	0.9959435	ok	0.9908359	ok	0.9902439	ok
		Low	1.0020383	ok	0.9893063	ok	0.9912903	ok
32788	26.4	High	0.9977223	ok	0.9920652	ok	0.9943714	ok
		Low	1.0008303	ok	0.9905830	ok	0.9877232	ok
65500	19.9	High	0.9992089	ok	0.9908588	ok	1.0017886	ok
		Low	1.0000297	ok	0.9892899	ok	0.9903423	ok
83000	18.9	High	0.9995586	ok	0.9892378	ok	1.0049803	ok
		Low	0.9997470	ok	0.9876343	ok	0.9913855	ok
131000	18.1	High	1.0018560	ok	0.9892332	ok	1.0014177	ok
		Low	1.0013080	ok	0.9874456	ok	0.9854861	ok
199980	21.2	High	1.0078723	ok	1.0161349	ok	0.9957741	ok
		Low	1.0069675	ok	1.0142598	ok	0.9773527	ok

RD-Palmer
Underground Utility Solutions

RADIODETECTION

Customer: JL GLOBAL INVISION SERVICES
Address: No 69, Jalan Teratai 7,Taman Johor Jaya,
Johor Bahru,Johor,81100 Malaysia

Certificate No. 250521-00128
Date: 21 May 2025

Summary Verification

Description	Conducted by	Result
Checked and calibrated in accordance to the standard set by the manufacturer	Farah Danieza	Pass
Checked and service locator for mechanical & component fault.	Farah Danieza	Pass
Checked and service transmitter (power gain/output and measurement, frequencies, connectors and accessories) are good working condition.	Farah Danieza	Pass
Equipment updated to the factory latest firmware release.	Farah Danieza	Pass

Note: Service by non-approved service centers or operators may void the manufacturer's warranty.

General
The Radiodetection locator and transmitter are robust, durable and weatherproof. However you can extend your equipment's life by the following these care and maintenance guidelines.

Storage
Store the equipment in a clean and dry environment. Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged. Do not use this equipment when damaged or faulty.

Batteries and power supply
Use good quality Alkaline or NiMH batteries only. When using an AC adapter, use only Radiodetection approved adapters. Only use Radiodetection approved Li-Ion battery packs.

Cleaning
WARNING! Do not attempt to clean this equipment when it is powered or connected to any power source, including batteries, adapters and live cables.

Ensure the equipment is clean and dry whenever possible. Clean with a soft, moistened cloth. If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant. Do not use abrasive materials or chemicals as they may damage the casing, including the reflective labels. Do no use high pressure hose.

Service and Maintenance
All safety equipment, it is recommended (and may be required by law) that they are serviced at least once a year, either at Radiodetection or a Radiodetection approved repair center.

Authorised Service Centre

RD-PALMER TECHNOLOGY (M) SDN BHD
Co. Reg. 200301008331 (610731-W)
No. 63, Jalan Seri Utara 1, Sri Utara Kipark, 68100 Kuala Lumpur.
Tel: +603 6250 2071 ● Fax: +603 6250 2072 ● Email : info@rd-palmer.com.my

SCAN ME !

PASS

Certificate of Calibration

Product: RD8K1RX
Serial Number: 10/81PDL-3578
Order Number: -

Date of Issue: 21/05/2025
Calibration Due Date: 21/05/2026

Customer:
ecal@rd-palmer.my - RD-PALMER TECHNOLOGY SDN BHD,63, JLN SERI UTARA 1, ,SRI UTARA KIPARK,,KUALA LUMPUR,MALAYSIA,68100

Radiodetection Calibration Data:
Location of Calibration: Radiodetection Ltd,Western Drive,Bristol,BS14 0AF,United Kingdom
Environmental Temperature: N/A
Relative Humidity: N/A
Test Procedure: RD8K1 Full Test (TEST3) R2&3.xml
Revision: 7.5.0.1

Traceability Information: Reference Calibration

Technician ID: GlenN
Equipment used at reference Calibration:

Model Number	Model Description	Serial Number	Last Cal Date	Cal Due Date
33120A	Hewlett Packard Function Generator	US36038595	03/08/2017	03/08/2018
34401A	Agilent Digital Multimeter	MY47002133	04/05/2017	04/05/2018
QL355TP	Thurlby Thandar Power Supply	251105	04/05/2017	04/05/2018

Calibration Results:

Frequency	H Ratio High	H Ratio Low	V Ratio High	V Ratio Low	Measurement Uncertainty	High Limit	Low Limit	Pass/Fail
315.0	0.9653	0.9653	1.0008	1.0013	0.0005	1.200	0.800	PASS
645.0	0.9656	0.9655	1.0007	1.0011	0.0005	1.200	0.800	PASS
870.0	0.9658	0.9656	1.0009	1.0010	0.0005	1.200	0.800	PASS
1090.0	0.9661	0.9658	1.0007	1.0010	0.0005	1.200	0.800	PASS
1415.0	0.9666	0.9662	1.0008	1.0012	0.0005	1.200	0.800	PASS
4091.0	0.9717	0.9696	1.0006	1.0019	0.0005	1.200	0.800	PASS
8172.0	0.9768	0.9727	1.0002	1.0026	0.0005	1.200	0.800	PASS
9820.0	0.9772	0.9734	1.0001	1.0028	0.0005	1.200	0.800	PASS
22170.0	0.9827	0.9765	1.0005	1.0038	0.0005	1.200	0.800	PASS
32788.0	0.9881	0.9814	1.0016	1.0049	0.0005	1.200	0.800	PASS
65550.0	0.9927	0.9855	1.0027	1.0061	0.0005	1.200	0.800	PASS
83000.0	0.9959	0.9883	1.0031	1.0066	0.0005	1.200	0.800	PASS
131100.0	1.0102	1.0007	1.0021	1.0055	0.0005	1.200	0.800	PASS
199930.0	1.0324	1.0217	0.9939	0.9974	0.0005	1.200	0.800	PASS

1. This certifies that the above product was tested and calibrated to the company's specifications and that the purpose built equipment performing these functions has been calibrated by instruments whose calibration is traceable to national standards.
2. The calibration was performed using procedures that are subject to periodic review.
3. The Company's Quality Management System is in accordance with BS EN ISO 9001:2008 Cert Number FM12608.

Traceability Information: eCERT Calibration

Operator Name: Farah
Operator Function: Service Engineer
Operator ID: 2025

Calibration Validation Results:

Frequency	Factory Top	Factory Bottom	Measured Top	Measured Bottom	Pass/Fail
Horiz High	0.0264502	0.02682346	0.02650737	0.02690428	PASS
Horiz Low	0.0447036	0.04538431	0.044792	0.04545747	PASS
Vert High	0.02732814	0.02735917	0.02739624	0.02743042	PASS
Vert Low	0.04636349	0.04617669	0.04645739	0.04627059	PASS

RD-Palmer
Underground Utility Solutions

RADIODETECTION

Customer: JL GLOBAL INVISION SERVICES
Address: No 69, Jalan Teratai 7,Taman Johor Jaya,
Johor Bahru,Johor,81100 Malaysia

Certificate No. 250521-00129
Date: 21 May 2025

Summary Verification

Description	Conducted by	Result
Checked and calibrated in accordance to the standard set by the manufacturer	Farah Danieza	Pass
Checked and service locator for mechanical & component fault.	Farah Danieza	Pass
Checked and service transmitter (power gain/output and measurement, frequencies, connectors and accessories) are good working condition.	Farah Danieza	Pass
Equipment updated to the factory latest firmware release.	Farah Danieza	Pass

Note: Service by non-approved service centers or operators may void the manufacturer's warranty.

General
The Radiodetection locator and transmitter are robust, durable and weatherproof. However you can extend your equipment's life by the following these care and maintenance guidelines.

Storage
Store the equipment in a clean and dry environment. Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged. Do not use this equipment when damaged or faulty.

Batteries and power supply
Use good quality Alkaline or NiMH batteries only. When using an AC adapter, use only Radiodetection approved adapters. Only use Radiodetection approved Li-Ion battery packs.

Cleaning
WARNING! Do not attempt to clean this equipment when it is powered or connected to any power source, including batteries, adapters and live cables.

Ensure the equipment is clean and dry whenever possible. Clean with a soft, moistened cloth. If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant. Do not use abrasive materials or chemicals as they may damage the casing, including the reflective labels. Do no use high pressure hose.

Service and Maintenance
All safety equipment, it is recommended (and may be required by law) that they are serviced at least once a year, either at Radiodetection or a Radiodetection approved repair center.

Authorised Service Centre

RD-PALMER TECHNOLOGY (M) SDN BHD
Co. Reg. 200301008331 (610731-W)
No. 63, Jalan Seri Utara 1, Sri Utara Kipark, 68100 Kuala Lumpur.
Tel: +603 6250 2071 ● Fax: +603 6250 2072 ● Email : info@rd-palmer.com.my

SCAN ME !

PASS

Certificate of Calibration

Product: RD8K1RX
Serial Number: 10/81PDL-3887
Order Number: -

Date of Issue: 21/05/2025
Calibration Due Date: 21/05/2026

Customer:
ecal@rd-palmer.my - RD-PALMER TECHNOLOGY SDN BHD,63, JLN SERI UTARA 1, ,SRI UTARA KIPARK,,KUALA LUMPUR,MALAYSIA,68100

Radiodetection Calibration Data:
Location of Calibration: Radiodetection Ltd,Western Drive,Bristol,BS14 0AF,United Kingdom
Environmental Temperature: N/A
Relative Humidity: N/A
Test Procedure: RD8K1 Full Test (TEST3) R2&3.xml
Revision: 7.5.0.1

Traceability Information: Reference Calibration

Technician ID: JoshM
Equipment used at reference Calibration:

Model Number	Model Description	Serial Number	Last Cal Date	Cal Due Date
33120A	Agilent Function Generator	MY44030486	12/04/2018	12/04/2019
34401A	Agilent Digital Multimeter	MY 45024994	05/04/2018	05/04/2019
QL355TP	Thurlby Thandar Power Supply	281719	28/06/2018	28/06/2019

Calibration Results:

Frequency	H Ratio High	H Ratio Low	V Ratio High	V Ratio Low	Measurement Uncertainty	High Limit	Low Limit	Pass/Fail
315.0	0.9904	0.9896	0.9932	0.9931	0.0005	1.200	0.800	PASS
645.0	0.9906	0.9917	0.9937	0.9932	0.0005	1.200	0.800	PASS
870.0	0.9907	0.9881	0.9937	0.9932	0.0005	1.200	0.800	PASS
1090.0	0.9908	0.9905	0.9941	0.9933	0.0005	1.200	0.800	PASS
1415.0	0.9910	0.9910	0.9945	0.9933	0.0005	1.200	0.800	PASS
4091.0	0.9926	0.9945	1.0002	0.9939	0.0005	1.200	0.800	PASS
8172.0	0.9934	0.9977	1.0073	0.9944	0.0005	1.200	0.800	PASS
9820.0	0.9937	0.9986	1.0090	0.9946	0.0005	1.200	0.800	PASS
22170.0	0.9956	1.0020	1.0133	0.9947	0.0005	1.200	0.800	PASS
32788.0	0.9996	1.0063	1.0195	1.0002	0.0005	1.200	0.800	PASS
65550.0	1.0032	1.0098	1.0192	0.9995	0.0005	1.200	0.800	PASS
83000.0	1.0044	1.0109	1.0194	0.9996	0.0005	1.200	0.800	PASS
131100.0	1.0075	1.0137	1.0258	1.0057	0.0005	1.200	0.800	PASS
199930.0	1.0061	1.0121	1.0382	1.0183	0.0005	1.200	0.800	PASS

1. This certifies that the above product was tested and calibrated to the company's specifications and that the purpose built equipment performing these functions has been calibrated by instruments whose calibration is traceable to national standards.
2. The calibration was performed using procedures that are subject to periodic review.
3. The Company's Quality Management System is in accordance with BS EN ISO 9001:2008 Cert Number FM12608.

Traceability Information: eCERT Calibration

Operator Name: Farah
Operator Function: Engineer
Operator ID: 2025

Calibration Validation Results:

Frequency	Factory Top	Factory Bottom	Measured Top	Measured Bottom	Pass/Fail
Horiz High	0.02688881	0.02709131	0.02694944	0.02714531	PASS
Horiz Low	0.04539984	0.04552318	0.04548715	0.04557737	PASS
Vert High	0.02749104	0.0281345	0.02752655	0.02818072	PASS
Vert Low	0.04647082	0.0469362	0.04651655	0.04700923	PASS

This certificate has been produced using the eCert™ remote calibration program. eCert does not perform a complete functional check of the unit and cannot check the mechanical integrity of the unit under test, or the correct operation of the mechanical controls and LCD screen. Under the eCert program, Radiodetection cannot accept responsibility for validating these areas, and the operator should thoroughly check these areas for issues or damage before use. Users should also periodically check the time and date accuracy of their unit. The unit should be returned to a Radiodetection approved service centre in the case of any concern.

OMU Calibration Certificate

This document is only valid if provided with a holographic Authentication Seal

System information

OMU serial number	84445402
OMU Type	ABM-90
Calibration valid until	September 11th , 2025

Calibration process information

Calibration date	September 11th, 2024	**Operator**	Thivagar Sarawanan
Calibration robot type	DR-CR-01307	**Manufacturer**	Reduct NV
Valid temperature range	0^0C to 50^0C	**Valid inclination (pitch) range**	-60^0 to 60^0
Static calibration positions	220	**Dynamic calibrations**	220

Calibration results

(See reverse for the process description)

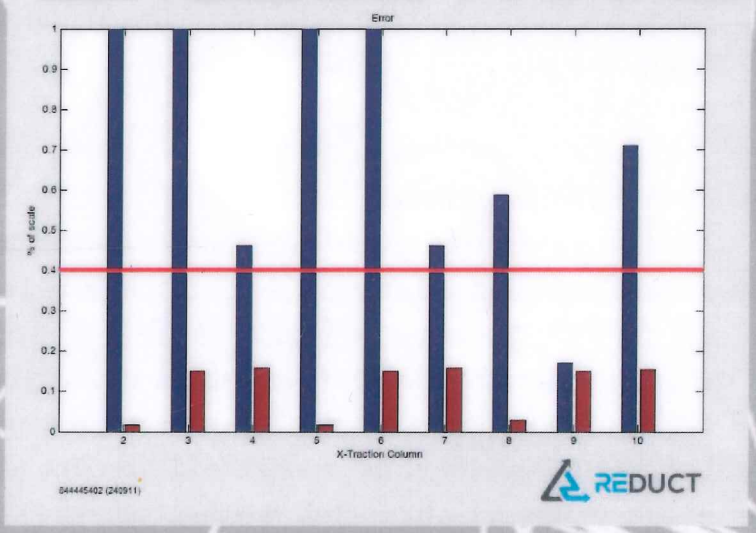
Sine Curve Test (SCT test)

Primary nine inertial sensors

Pre-calibration (See chart)

Post-calibration (See chart)

Criterion SCT-test: Post-calibration match better than 0.4% of scale.	**PASS**



Measurement Verification Test (MVT test)

Number of runs:

- Forward 2
- Backward 1
- A to B 2
- B to A 1

Plane	Maximum Allowed Spread	Observed Spread TVT test	Result
XY	0.25%	**0.08%**	**PASS**
Z	0.10%	**0.05%**	**PASS**

Overall Calibration Result — PASS

Authentication Seal

Verified by,

Authentic Reduct Document

Otto Ballintijn, Managing Director

Calibration Procedure

Objective

Reduct pipeline mapping probes are manufactured and assembled using state of the art machinery and the best materials and components. The primary nine inertial measurement sensors are assembled such that they are placed as accurately as possible on the X, Y or Z axis of the probe. However, all mechanical assembly is invariably imperfect, i.e. the angles between the nine key inertial sensors are not exactly 90 degrees. The objective, therefore, of the Reduct calibration procedure is to measure the angular errors and compensate them mathematically.

Method

Reduct has developed the DR-CR-01307, a proprietary calibration robot. Over a period of about two hours, the robot moves a probe through over 440 static positions and dynamic moves in an inclination range between -60^0 to $+60^0$ (red arrows) while rotating the unit 360^0 around its X-Axis (yellow arrow) and 360^0 around it Y-Axis (blue arrows).

Upon completion of the calibration procedure the data gathered by the probe during the calibration procedure is uploaded to the calibration software for further analysis.

Mathematical adjustment

A perfectly assembled system calibration data yields perfect sine curves. The data gathered from a probe is processed and an initial match to the perfect sine curve is made in the form of a scaling to the curve (BLUE columns in the table on the reverse side). Then, a series of proprietary algorithms will make mathematical adjustments to the assembly angle of each primary sensor until it finds the best fit to the perfect sine curve. The remaining scaling values for the primary inertial sensors must be below 0.4% for the probe to pass the SCT test. The resulting calibrated settings are then uploaded into the X-Traction software that matches the probe's serial number.

Measurement validation

As a final check the probe pre and post calibration performance is validated on a recent measurement. The owner will provide the raw data file (.mat) of a recent measurement that has height and azimuth variations, has at least 4 runs and preferably has a length of 100-300 meters.

OMU Calibration Certificate

This document is only valid if provided with a holographic Authentication Seal

System information

OMU serial number	84445667
OMU Type	ABM-90
Calibration valid until	September 21st, 2024

Calibration process information

Calibration date	September 21st, 2023	**Operator**	Hans Van Niewenhuyze
Calibration robot type	DR-CR-002	**Manufacturer**	Reduct NV
Valid temperature range	0^0C to 50^0C	**Valid inclination (pitch) range**	-60^0 to 60^0
Static calibration positions	220	**Dynamic calibrations**	220

Calibration results

(See reverse for the process description)

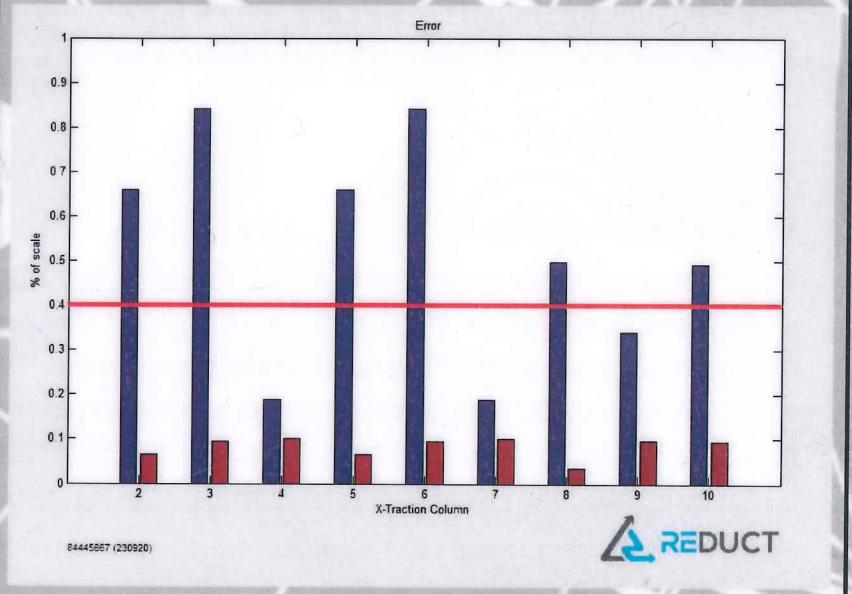
Sine Curve Test (SCT test)
Primary nine inertial sensors
Pre-calibration (See chart)
Post-calibration (See chart)

Criterion SCT-test: Post-calibration match better than 0.4% of scale.	**PASS**

TrackVerificationTest (TVT test)
Number of runs:

- Forward 4
- Backward 4
- A to B 4
- B to A 4

Plane	Maximum Allowed Spread	Observed Spread TVT test	Result
XY	0.25%	**0.14%**	**PASS**
Z	0.10%	**0.03%**	**PASS**



Overall Calibration Result

PASS

Authentication Seal

Verified by,

Otto Ballintijn, Managing Director

OMU Calibration Certificate

This document is only valid if provided with a holographic Authentication Seal

System information

OMU serial number	84445673
OMU Type	ABM-90
Calibration valid until	See X-Traction

Calibration process information

Calibration date	December 5th, 2023	**Operator**	Hans Van Niewenhuyze
Calibration robot type	DR-CR-002	**Manufacturer**	Reduct NV
Valid temperature range	0^0C to 50^0C	**Valid inclination (pitch) range**	-60^0 to 60^0
Static calibration positions	220	**Dynamic calibrations**	220

Calibration results

(See reverse for the process description)

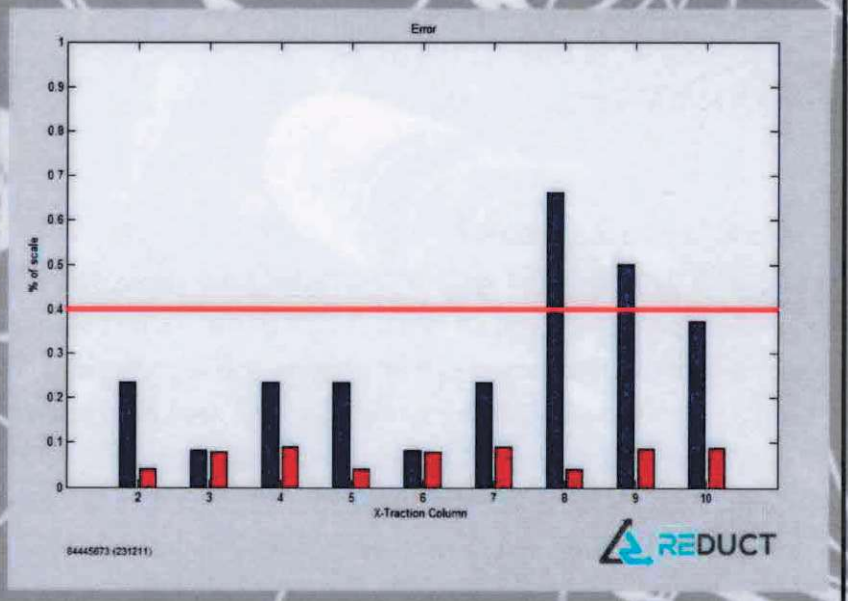
Sine Curve Test (SCT test)
Primary nine inertial sensors
Pre-calibration (See chart)
Post-calibration (See chart)

Criterion SCT-test: Post-calibration match better than 0.4% of scale.	**PASS**

TrackVerificationTest (TVT test)
Number of runs:

- Forward 4
- Backward 4
- A to B 4
- B to A 4

Plane	Maximum Allowed Spread	Observed Spread TVT test	Result
XY	0.25%	**0.08%**	**PASS**
Z	0.10%	**0.03%**	**PASS**



Overall Calibration Result **PASS**

Authentication Seal

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

Verified by,

Otto Ballintijn, Managing Director

RDG SUPPLY SDN BHD

CERTIFICATE OF CONFORMITY

This is to certify that

IDS Georadar Opera Duo 4 Wheeled
S/N : 010-20-000445

under JL Global Invision Sdn Bhd

are designed and manufactured by IDS Georadar, Italy

For and Behalf of
RDG SUPPLY SDN BHD

Date : 4th Nov 2020