

Leica_data_20200918



New Calibration

统计

统计

名称	值
平均位置	0.1946
最大位置	0.4899
位置 RMS	0.2183
平均姿态	0
姿态 Max	0
姿态 RMS	0
可靠度	0

结果

基座

名称	X	Y	Z	Rx	Ry	Rz
基座	199.5783	488.5875	123.0136	0.548	-0.0512	-3.7073

工具

名称	X	Y	Z	Rx	Ry	Rz
工具	-12.8753	-12.5266	37.1857	90	0	-90.0002

DH参数

名称	Alpha	A	D	Theta
连接1	0	0	98.5	180
连接2	-90.0114	-0.0132	140.6164	-90.06
连接3	179.7365	409.067	-0.1163	-1.0195
连接4	179.8765	377.096	-18.8837	-90.4331
连接5	-90.062	-0.0549	101.8412	-0.6609
连接6	89.6241	-0.2192	96.1435	0

关节

名称	UpperLimit	LowerLimit	MaxVel	MaxAcc	IsLinear	IsCoupled	CoupledIndex	CoupledSign	CouplingRatio	ReductionRatio
关节1	170	-170	180	180	0	0	0	0	0	1
关节2	100	-100	180	180	0	0	0	0	0	1
关节3	100	-100	180	180	0	0	0	0	0	1
关节4	100	-100	180	180	0	0	0	0	0	1
关节5	100	-100	180	180	0	0	0	0	0	1
关节6	100	-100	180	180	0	0	0	0	0	1

位姿

位姿

名称	名义 X	名义 Y	名义 Z	名义 Rx	名义 Ry	名义 Rz	测量 X	测量 Y	测量 Z	余量 位置
Motion1	-103.2308	41.4452	758.0208	168.9283	-10.2391	29.2919	-103.2268	41.4704	757.9206	0.1035
Motion2	-15.7974	481.0731	909.7337	174.0369	-3.6681	13.884	-15.7992	481.1371	909.6931	0.0758
Motion3	60.778	74.6123	943.5905	173.5556	-11.8079	-23.506	60.764	74.4676	943.4595	0.1957
Motion4	339.6027	-2.9627	864.0156	169.6096	-27.7905	-21.0424	339.6085	-2.9768	863.9642	0.0536
Motion5	117.1044	201.9797	893.206	172.4913	-9.9152	-18.3529	117.1892	201.8944	893.2714	0.1369
Motion6	-132.9854	407.5466	961.3051	175.3892	-3.7893	27.1764	-133.2189	407.6458	960.9794	0.4128
Motion7	1.8221	476.3953	913.8179	173.9169	-8.6525	1.3601	1.7872	476.5192	913.8407	0.1308
Motion8	293.7848	3.309	896.9853	170.9146	-29.4364	-29.9866	293.8497	3.2293	896.8401	0.1779
Motion9	166.9687	43.9445	972.4455	174.6155	-12.0513	-30.1241	167.0208	43.9227	972.2966	0.1593
Motion10	345.3404	129.3198	617.0347	165.6179	-7.2021	-2.0802	345.2406	129.3384	617.1155	0.1297
Motion11	461.1072	74.9099	815.1201	170.1267	-12.112	-16.8725	461.0209	74.9373	815.0469	0.1165
Motion12	-9.2999	280.2589	947.3525	174.5685	-15.0059	22.1111	-9.3047	280.2316	947.3677	0.0317
Motion13	424.1343	11.7131	874.4701	170.5321	-21.1056	-3.4653	424.184	11.5769	874.3081	0.2173
Motion14	74.7485	-3.5444	764.5255	167.2759	-0.443	-27.0828	74.7961	-3.4896	764.6356	0.1319
Motion15	422.703	-7.5412	888.1093	170.7079	-30.0348	-24.4285	422.6915	-7.5749	887.7689	0.3423
Motion16	454.3288	9.1295	930.4127	172.7097	-22.5184	-14.2909	454.4228	8.9941	930.0604	0.389
Motion17	322.3452	67.8683	786.096	167.8903	-26.3102	-24.6702	322.3162	67.9521	786.1709	0.1161
Motion18	397.1892	154.7602	650.7683	164.6788	-26.0281	-12.2921	397.0218	154.7265	651.1201	0.3911
Motion19	-77.5979	301.0239	845.0444	171.5104	-16.5636	16.9489	-77.5982	300.9747	845.1467	0.1135
Motion20	344.3609	29.1456	782.6123	167.4393	-18.4225	-1.3455	344.2361	29.1716	782.8375	0.2587
Motion21	-129.6218	158.6802	870.8194	172.2625	-14.9642	26.7596	-129.8403	158.6402	870.6	0.3122
Motion22	-1.9361	105.3863	776.6352	170.3634	-0.941	8.3705	-1.8546	105.3302	776.4736	0.1895
Motion23	21.7594	148.9926	970.1451	175.9046	-1.9461	-26.9641	21.6152	148.9777	970.1243	0.1466
Motion24	194.0628	149.8853	637.2193	164.7971	-25.8756	-17.294	194.121	149.9387	637.3232	0.1305
Motion25	145.3414	-7.9782	879.9115	172.2285	-4.781	-10.3209	145.265	-8.0973	879.9534	0.1476
Motion26	355.3544	103.9706	877.9424	171.8964	-15.7284	-16.3936	355.4789	103.945	877.9615	0.1285
Motion27	-16.7597	319.0664	824.5321	171.1016	-18.6395	-12.1784	-16.8229	319.1105	824.7653	0.2457
Motion28	335.4185	429.3423	1034.4947	178.5199	-2.1544	3.854	335.3928	429.5174	1034.4561	0.1812
Motion29	-10.5478	482.5141	999.4554	176.3278	-8.1635	19.274	-10.5991	482.5553	999.3142	0.1558
Motion30	243.1142	191.6347	933.5185	173.8574	-5.5301	11.5904	243.1263	191.5848	933.6498	0.141
Motion31	17.0071	243.773	853.6476	171.4038	-20.5279	19.2464	17.1101	243.7027	853.8538	0.241
Motion32	399.6348	217.0164	905.8094	173.6011	-11.5133	6.051	399.7209	217.0601	905.9131	0.1417
Motion33	87.7256	348.8608	906.8232	173.2285	-8.4001	9.9354	87.7291	348.8827	907.0164	0.1945
Motion34	193.345	18.6039	860.422	170.5761	-1.5127	-6.3305	193.4514	18.4364	860.4427	0.1995
Motion35	10.6236	212.408	845.0719	171.0649	-6.0833	-19.2938	10.7032	212.4446	845.32	0.2632
Motion36	4.1249	380.58	1082.1507	178.866	-9.5026	-21.8066	4.0622	380.7636	1081.9619	0.2707
Motion37	413.4645	404.5273	955.096	175.7885	-3.1819	-0.286	413.6108	404.6034	955.1951	0.1924

Motion38	255.7553	24.5431	679.964	163.6985	-21.5727	-16.6328	255.6452	24.6907	680.418	0.4899
Motion39	13.2334	394.8707	1014.1676	176.8497	-1.925	-14.6711	13.2093	395.0422	1014.0648	0.2014
Motion40	-150.7712	183.6169	790.9555	168.5279	-27.494	37.8097	-150.6759	183.5648	791.0075	0.1205
Motion41	468.6908	232.1909	1023.1548	177.2892	-2.9909	-27.9135	468.9995	232.2459	1022.9592	0.3696
Motion42	206.8917	102.2142	947.2652	174.8264	-1.7689	14.2766	206.8101	102.0972	947.3526	0.1673
Motion43	220.1195	120.2694	956.9482	174.4002	-21.2805	-30.688	220.2324	120.2474	956.9002	0.1246
Motion44	-42.9884	246.0427	1004.1911	176.6396	-6.119	21.7675	-43.1027	246.0765	1004.05	0.1847
Motion45	344.1563	39.6883	755.07	166.1472	-29.9211	-25.364	344.0403	39.7983	755.2015	0.207
Motion46	469.3615	63.5414	800.5756	169.0971	-23.5301	-19.8716	469.2848	63.554	800.4256	0.169
Motion47	52.2592	94.54	885.1181	171.565	-5.8753	-15.8738	52.2623	94.4163	884.9427	0.2146
Motion48	-42.4115	458.591	857.3263	172.1312	-13.3245	20.8875	-42.2853	458.4672	857.45	0.2158
Motion49	286.1223	6.9826	817.2606	169.0884	-2.7043	-3.9723	286.1216	7.0028	817.4347	0.1753
Motion50	15.3285	123.7804	669.7342	167.1692	-7.2409	-14.5073	15.4522	123.7737	669.7168	0.1251

位姿

关联

	Bas e: X	Bas e: Y	Bas e: Z	Base : Rx	Base : Ry	Base : Rz	Link 2: α	Link 2: A	Link 2: D	Link 2: θ	Link 3: α	Link 3: A	Link 3: D	Link 3: θ	Link 4: α	Link 4: A	Link 4: D	Link 4: θ	Link 5: α	Link 5: A	Link 5: D	Link 5: θ	Link 6: α	Link 6: A	Link 6: D	Too l: X	Too l: Y	Too l: Z	Tool: Rx	Tool: Ry	Tool: Rz
Base : X	1	0.17 27	-0.2 221	0.289 4	-0.50 27	-0.91 41	-0.43 41	0.04 6	0.54 61	-0.74 34	-0.32 87	0.24 93	0.61 3	0.54 6	0.22 56	0.45 42	-0.02 21	-0.46 61	-0.23 72	-0.03 5	-0.55 32	-0.50 27	0.57 69	-0.26 24	0.37 02	0.00 68	-0.0 064	-0.4 939	0	0	0
Base : Y	0.17 27	1	-0.1 437	-0.05 25	-0.24 77	-0.14 7	-0.06 2	0.29 28	-0.54 28	-0.14 43	-0.94 66	-0.75 77	0.73 48	0.78 73	0.69 5	0.91 58	0.25 71	-0.75 07	-0.81 76	-0.30 13	-0.62 65	0.39 74	0.35 67	-0.15 03	0.05 55	-0.0 446	-0.8 175	0	0	0	
Base : Z	-0.2 221	-0.1 437	1	-0.35 32	-0.27 55	0.092 3	-0.43 09	0.47 65	0.22 24	-0.17 24	0.22 24	0.17 53	0.09 48	0.04 22	0.09 67	0.20 65	-0.35 03	-0.12 77	0.04 53	0.36 09	-0.09 17	-0.05 41	0.23 76	-0.20 95	0.09 82	-0.0 032	0.00 24	-0.0 717	0	0	0
Base : Rx	0.28 94	-0.0 525	-0.3 532	1	0.344 7	-0.19 52	0.45 75	-0.50 97	-0.04 35	0.16 4	-0.12 58	0.01 07	-0.21 74	-0.13 83	-0.29 26	-0.38 43	0.42 39	0.27 82	0.11 7	-0.42 96	0.20 59	0.11 57	-0.30 98	0.12 75	0.00 08	-0.0 319	0.02 5	0.21 16	0	0	0
Base : Ry	-0.2 057	-0.2 477	-0.2 755	0.344 7	1	0.543 1	0.83 3	-0.63 82	-0.44 34	0.46 93	0.30 66	0.03 28	-0.72 64	-0.74 33	-0.53 01	-0.76 8	0.19 16	0.75 23	0.47 78	-0.11 94	0.77 57	0.65 76	-0.75 59	0.25 29	-0.25 49	0.10 83	-0.0 829	0.73 79	0	0	0
Base : Rz	-0.9 141	-0.1 47	0.09 23	-0.19 52	0.543 1	1	0.42 56	0.01 33	-0.62 32	0.79 82	0.31 32	-0.32 82	-0.61 57	-0.54 85	-0.16 53	-0.42 68	0.00 25	0.45 47	0.19 26	0.06 12	0.54 78	0.49 98	-0.57 47	0.27 45	-0.40 41	-0.0 054	0.00 53	0.48 1	0	0	0
Link2 : α	-0.4 341	-0.0 62	-0.4 309	0.457 5	0.833 6	0.425 1	-0.82 45	-0.47 45	0.44 13	0.02 49	-0.05 82	-0.58 86	-0.49 19	-0.58 92	-0.77 47	0.50 73	0.61 49	-0.50 5	-0.61 04	-0.41 23	-0.56 12	-0.41 78	0.56 99	-0.07 37	-0.08 69	0.02 106	-0.0 94	-0.5 87	0	0	0
Link2 : A	0.04 6	0.29 28	0.30 47	-0.50 99	-0.63 82	0.013 3	-0.82 45	1 1	-0.04 72	0.01 56	-0.16 13	-0.41 87	0.48 25	0.43 69	0.77 25	-0.40 99	-0.60 25	-0.54 86	-0.41 63	-0.56 48	-0.41 65	0.56 78	-0.07 79	-0.08 56	0.02 29	-0.0 189	-0.5 774	0	0	0	
Link2 : D	0.54 61	-0.5 428	0.22 65	-0.04 97	-0.44 34	-0.62 32	-0.47 45	-0.04 72	1 44	-0.6 0.01	0.37 49	0.77 25	0.07 75	-0.01 77	-0.22 44	0.04 14	-0.30 19	0.04 76	0.35 53	0.28 23	-0.01 99	-0.06 61	0.32 02	-0.53 68	0.46 31	-0.0 081	0.00 63	0.07 79	0	0	0
Link2 : θ	-0.7 434	-0.1 443	-0.1 724	0.163 5	0.469 3	0.799 2	0.44 13	0.01 56	-0.6 1	1	-0.37 88	-0.61 43	-0.77 22	-0.61 31	-0.74 61	-0.44 12	-0.44 75	0.15 72	0.45 99	0.51 16	0.45 24	0.59 06	-0.52 1	-0.28 62	-0.38 91	-0.0 452	0.03 61	0.44 75	0	0	0
Link3 : α	-0.3 287	-0.9 466	0.22 4	-0.12 6	0.306 2	0.318 4	0.02 19	-0.16 43	0.37 49	0.23 88	1	0.66 34	-0.74 78	-0.81 94	-0.59 05	-0.58 47	-0.34 65	0.74 46	0.42 65	0.77 72	0.66 92	-0.39 32	-0.32 95	0.07 07	-0.0 247	0.02 0.02	0.81 27	0	0	0	
Link3 : A	0.24 93	-0.7 577	0.17 53	0.015 8	0.032 37	-0.32 82	-0.05 87	-0.41 25	0.77 43	-0.37 34	0.66 1	-0.28 94	-0.41 17	-0.59 64	-0.39 56	-0.22 49	0.45 34	0.67 05	0.30 45	0.40 34	0.31 26	-0.01 28	-0.50 85	0.41 42	-0.0 134	0.01 12	0.49 69	0	0	0	
Link3 : D	0.61 3	0.73 48	0.09 48	-0.21 07	-0.72 64	-0.61 57	-0.58 86	-0.48 25	0.07 75	-0.61 22	-0.74 78	-0.28 94	1 88	0.93 88	0.74 39	0.88 17	-0.91 37	-0.77 3	-0.08 11	-0.86 11	-0.78 72	-0.79 01	-0.85 85	-0.63 63	0.94 94	0.89 89	-0.0 087	-0.9 553	0	0	0
Link3 : θ	0.54 61	0.78 571	0.04 277	-0.13 9	-0.74 3	-0.54 7	-0.49 49	-0.43 86	-0.01 76	-0.49 72	-0.81 65	-0.41 45	0.93 3	1 18	0.66 07	0.83 36	0.08 11	-0.94 72	-0.15 34	-0.97 82	-0.83 7	-0.73 54	0.03 42	0.13 43	0.00 23	-0.0 311	-0.9 22	0	0	0	
Link4 : α	0.22 56	0.69 5	0.09 97	-0.29 83	-0.53 01	-0.16 53	-0.58 92	0.77 99	-0.22 44	-0.14 61	-0.59 94	-0.59 64	0.74 39	0.66 99	1 93	0.86 76	-0.05 76	-0.72 07	-0.88 52	0.05 19	-0.76 57	-0.58 97	0.61 79	0.04 21	-0.07 81	0.00 27	-0.0 035	-0.7 902	0	0	0
Link4 : A	0.45 42	0.63 91	0.20 65	-0.38 26	-0.76 8	-0.42 68	-0.77 47	-0.77 25	0.04 14	-0.44 12	-0.58 05	-0.39 56	-0.88 17	0.83 74	0.86 93	-0.23 32	-0.90 36	-0.90 15	-0.77 21	-0.89 41	-0.65 94	-0.67 84	0.03 91	0.00 37	-0.0 27	-0.0 038	-0.9 159	0	0	0	
Link4 : D	-0.0 221	0.25 58	-0.3 503	0.424 3	0.191 6	0.002 5	0.50 73	-0.40 19	-0.30 75	0.15 47	-0.34 49	-0.22 75	0.04 37	0.08 75	-0.05 76	-0.23 32	1 11	0.16 98	-0.28 98	-0.87 39	-0.01 52	0.14 04	-0.33 57	0.45 12	-0.18 86	0.02 222	-0.0 161	0	0	0	
Link4 : θ	-0.4 661	-0.7 571	-0.1 277	0.273 9	0.752 3	0.454 7	0.61 49	-0.60 86	0.04 76	0.45 72	0.74 65	0.45 45	-0.91 3	-0.94 18	-0.72 07	-0.90 36	0.16 11	1 34	0.72 82	-0.03 7	0.95 54	0.82 42	-0.76 43	-0.03 41	-0.08 04	0.04 23	-0.0 311	0.97 22	0	0	0
Link5 : α	-0.2 372	-0.8 107	0.04 53	0.118 2	0.477 8	0.192 6	0.34 5	-0.54 9	0.35 53	0.11 99	0.76 44	0.67 34	-0.77 11	-0.74 39	-0.88 07	-0.77 15	-0.28 98	0.72 34	1 67	0.36 35	0.76 91	0.52 91	-0.43 96	-0.29 87	0.08 96	0.17 14	-0.1 319	0.82 17	0	0	0
Link5 : A	-0.0 35	-0.3 076	0.36 09	-0.42 7	-0.11 94	0.061 2	-0.50 04	-0.41 63	0.28 23	-0.07 16	0.42 65	0.30 05	-0.08 11	-0.15 94	0.05 52	0.16 21	-0.87 39	-0.03 82	0.36 67	1 2	0.04 82	-0.08 61	-0.52 48	0.21 69	0.28 96	-0.2 253	0.09 16	0	0	0	
Link5 : D	-0.5 532	-0.7 613	-0.0 917	0.209 6	0.775 7	0.547 8	0.61 23	-0.56 48	-0.01 99	0.51 24	0.77 22	0.40 26	-0.96 72	-0.97 56	-0.76 19	-0.89 41	-0.01 7	0.95 35	0.76 2	0.04 2	1 04	0.86 28	-0.82 18	0.04 52	-0.14 51	-0.0 511	0.04 16	0.98 61	0	0	0
Link5 : θ	-0.5 027	-0.6 265	-0.0 541	0.115 9	0.657 6	0.499 8	0.49 12	-0.41 65	-0.06 61	0.66 06	0.31 72	-0.78 28	-0.83 41	-0.58 57	-0.65 94	-0.61 52	0.14 54	0.82 91	0.52 82	-0.08 04	0.86 1	-0.88 23	0.41 08	-0.40 91	-0.0 176	0.01 53	0.81 02	0	0	0	
Link6 : α	0.57 69	0.39 74	0.23 76	-0.30 98	-0.75 59	-0.57 47	-0.75 99	0.56 78	0.32 02	-0.59 1	-0.39 92	-0.01 85	0.79 85	0.73 17	0.61 99	0.73 84	-0.33 04	-0.76 42	-0.43 96	0.36 61	-0.82 28	-0.88 23	1 08	-0.57 08	0.46 24	0.07 87	-0.0 628	-0.7 421	0	0	0
Link6 : A	-0.2 624	0.35 67	-0.2 095	0.120 8	0.252 9	0.274 5	0.36 37	-0.07 79	-0.53 68	0.28 62	-0.32 95	-0.50 42	-0.01 63	0.03 91	0.04 21	0.03 57	0.45 31	-0.03 87	-0.29 48	-0.52 18	0.04 08	0.41 18	-0.57 08	1 43	-0.64 00	0.00 44	-0.0 033	-0.0 865	0	0	0
Link6 : D	0.37 02	-0.1 503	0.09 82	0.003 9	-0.25 49	-0.40 41	-0.21 69	-0.08 56	0.46 31	-0.38 91	0.07 07	0.41 04	0.15 94	0.13 23	-0.07 81	0.01 37	-0.18 12	-0.08 44	0.08 96	0.21 52	-0.14 91	-0.40 52	0.46 24	-0.64 43	1 1	0.00 53	-0.0 044	-0.0 638	0	0	0
Tool: X	0.00 68	0.05 55	-0.0 032	-0.03 19	0.108 3	-0.00 54	-0.01 06	0.02 29	-0.00 81	-0.04 52	-0.02 34	-0.01 89	0.00 51	0.00 58	0.00 27	0.00 27	0.02 86	0.04 23	0.17 96	0.28 14	-0.05 11	-0.01 76	0.07 44	0.00 53	1 000	-0.5 784	-0.0 001	0	0	0	
Tool: Y	-0.0 064	-0.0 446	0.0 24	0.025 29	-0.08 3	0.005 94	0.00 89	-0.01 63	0.00 61	0.03 07	0.02 12	0.01 87	-0.00 63	-0.00 35	-0.00 38	-0.02 22	-0.03 11	-0.13 19	-0.22 53	0.04 16	0.01 53	-0.06 28	-0.00 33	-0.00 44	-0.5 784	1 000	0.00 19	0	0	0	
Tool: Z	-0.4 939	-0.8 175	-0.0 717	0.211 6	0.737 9	0.481 8	0.56 87	-0.57 74	0.07 74	0.44 75	0.81 27	0.49 69	-0.95 53	-0.97 61	-0.79 02	-0.91 59	-0.01 22	0.97 82	0.12 16	0.09 61	0.98 08	0.81 02	-0.74 21	-0.08 38	-0.06 38	-0.0 001	0	1	0	0	0
Tool: Rx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tool: Ry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tool: Rz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0