A Priori Berechnungen

Grundangaben:

Stereobasis	b[mm]	921.9	Sigma P	0.0037	[mm]	Distanze	4000
Kamerakonstante	ck[mm]	7.818	Sigma ck	0.007	[mm]		10000
Pixelgrösse	Pixelgrösse[mm]	0.0074	Sigma b	2	[mm]		20000
							70000

px (4m)	1.80185355	[mm]	Mck (4m)	3.58148	[mm]	Mb (4m)	8.6777	[mm]	Mck (4m)	8.2138 [mm]
px(10m)	0.72074142	[mm]	Mck (10m)	8.9537	[mm]	Mb (10m)	21.694	[mm]	Mck (10m)	51.336 [mm]
px(20m)	0.36037071	[mm]	Mck(20m)	17.9074	[mm]	Mb(20m)	43.389	[mm]	Mck(20m)	205.34 [mm]
px(70m)	0.10296306	[mm]	Mck(70m)	62.6759	[mm]	Mb(70m)	151.86	[mm]	Mck(70m)	2515.5 [mm]

Sigma a (4m)	0.012473809
Sigma a (10m)	0.056446435
Sigma a (20m)	0.210640572
Sigma a (70m)	2.520824322

Daten 1 Messungen

	Messung 1				Messung2				Messung3			
1	494.51	764.465	254.618	763.501	494.628	764.415	256.01	764.246	494.971	764.632	256.275	763.955
2	441.45	700.51	201.45	700.495	441.901	699.813	201.479	699.111	441.584	700.462	201.647	700.368
3	881.493	730.522	773.478	730.468	881.083	730.503	773.624	730.683	881.394	730.84	773.567	730.781
4	1113.478	730.488	1007.184	730.559	1113.425	730.558	1007.404	730.887	1113.67	730.755	1007.121	730.52
5	713.496	426.482	614.559	426.471	713.984	425.684	614.653	426.166	713.824	425.715	614.863	426.651
6	431.432	449.479	378.556	449.562	430.043	448.148	378.855	449.276	430.475	449.228	379.12	449.758
7	253.453	428.485	209.449	428.535	253.316	428.346	208.914	428.913	253.677	428.448	208.928	428.626
8	878.462	394.547	862.494	394.461	877.351	393.633	861.469	392.461	877.68	392.544	861.688	392.681
9	961.478	502.526	948.505	502.48	961.407	502.66	948.487	502.535	961.331	502.963	948.472	502.567
10	1108.482	382.404	1083.393	382.559	1108.503	382.544	1083.453	382.449	1108.615	382.525	1082.575	382.456

Daten 2 Messungen

	Messung4				Messung5				Messung6			
1	495.086	764.921	256.549	764.787	495.086	765.187	256.709	764.521	495.086	765.32	256.247	764.28
2	442.488	699.143	201.277	699.526	441.891	699.825	201.73	698.887	442.077	699.127	201.346	699.825
3	880.958	730.852	773.28	730.674	880.526	731.491	772.779	730.825	880.859	730.858	772.812	730.692
4	1113.234	730.255	1007.163	730.988	1113.469	730.425	1007.453	730.532	1113.269	730.151	1007.319	730.559
5	713.889	425.61	614.5	426.207	714.349	425.832	614.671	426.548	713.974	425.525	614.654	426.105
6	429.851	448.604	379.189	449.508	429.872	449.222	378.985	449.307	430.384	449.307	378.899	449.136
7	254.285	428.759	209.052	429.037	253.785	428.628	209.401	428.679	253.826	428.942	209.188	428.901
8	878.568	394.191	862.922	394.028	878.801	394.251	862.965	393.94	878.513	394.682	863.143	393.85
9	960.997	502.861	948.869	502.596	961.611	502.888	948.566	502.575	961.104	501.772	948.548	502.304
10	1107.182	382.224	1082.992	382.803	1107.268	381.797	1082.749	382.593	1107.076	381.877	1082.269	382.79

Daten 3 Messungen

	Messung7				Messung8				Messung9			
1	497.315	766.522	257.709	765.126	496.218	764.958	257.305	764.298	496.683	765.546	257.832	765.316
2	442.407	698.877	201.665	698.629	442.699	699.083	201.982	698.211	442.526	698.53	201.66	697.636
3	881.462	730.517	774.027	729.957	882.524	730.503	773.964	730.045	881.964	729.831	774.404	729.578
4	1113.781	730.025	1007.155	729.915	1113.401	729.556	1007.686	730.396	1114.087	729.788	1006.828	729.686
5	713.961	425.845	614.485	425.896	714.064	425.641	614.447	426.675	714.268	425.561	614.604	425.871
6	433.434	449.242	382.25	449.517	433.241	449.236	382.099	449.789	433.439	449.018	381.924	449.089
7	253.809	428.793	208.714	428.814	254.115	428.691	209.371	428.786	253.808	428.775	208.97	428.912
8	877.353	391.413	861.895	392.487	877.302	392.665	861.165	392.991	876.288	392.816	860.984	392.845
9	961.456	502.503	948.459	503.43	961.423	502.807	948.45	503.075	961.652	502.785	948.177	503.084
10	1110.404	382.615	1084.674	383.303	1109.979	384.015	1083.856	383.78	1108.014	383.078	1082.265	383.189

Daten 1 Berechnungen

	px M1	px M2	px M3	px M1 [mr	px M2 [mr	px M3 [mr	a M1	a M2	a M3	px mittel	Mck	Mb	Mpk	sigma s
1	239.892	238.618	238.696	1.78	1.77	1.77	4.1	4.1	4.1	1.8	1.928107	0.030934	8.520645	9
2	240	240.422	239.937	1.78	1.78	1.78	4.1	4.1	4.1	1.8	1.919668	0.030799	8.446218	9
3	108.015	107.459	107.827	0.80	0.80	0.80	9.0	9.1	9.0	0.8	4.277283	0.068624	41.93206	42
4	106.294	106.021	106.549	0.79	0.78	0.79	9.2	9.2	9.1	0.8	4.336802	0.069579	43.10715	43
5	98.937	99.331	98.961	0.73	0.74	0.73	9.8	9.8	9.8	0.7	4.652473	0.074644	49.61099	50
6	52.876	51.188	51.355	0.39	0.38	0.38	18.4	19.0	19.0	0.4	8.897561	0.142751	181.4479	182
7	44.004	44.402	44.749	0.33	0.33	0.33	22.1	21.9	21.8	0.3	10.38527	0.166619	247.1982	247
8	15.968	15.882	15.992	0.12	0.12	0.12	61.0	61.3	60.9	0.1	28.90452	0.463739	1914.88	1915
9	12.973	12.92	12.859	0.10	0.10	0.10	75.1	75.4	75.7	0.1	35.68461	0.572518	2918.583	2919
10	25.089	25.05	26.04	0.19	0.19	0.19	38.8	38.9	37.4	0.2	18.15264	0.291238	755.2483	755

Daten 2 Berechnungen

	px M1	px M2	px M3	px M1 [mr	px M2 [mr	px M3 [mr	a M1	a M2	a M3	px mittel	Mck	Mb	Mpk	sigma s
1	238.537	238.377	238.839	1.77	1.76	1.77	4.1	4.1	4.1	1.8	1.932021	0.030997	8.555274	9
2	241.211	240.161	240.731	1.78	1.78	1.78	4.0	4.1	4.0	1.8	1.915032	0.030724	8.405469	9
3	107.678	107.747	108.047	0.80	0.80	0.80	9.0	9.0	9.0	0.8	4.275022	0.068588	41.88774	42
4	106.071	106.016	105.95	0.78	0.78	0.78	9.2	9.2	9.2	0.8	4.348079	0.06976	43.33163	44
5	99.389	99.678	99.32	0.74	0.74	0.73	9.8	9.8	9.8	0.7	4.634418	0.074354	49.22667	49
6	50.662	50.887	51.485	0.37	0.38	0.38	19.2	19.1	18.9	0.4	9.036227	0.144976	187.1477	187
7	45.233	44.384	44.638	0.33	0.33	0.33	21.5	21.9	21.8	0.3	10.30018	0.165254	243.164	243
8	15.646	15.836	15.37	0.12	0.12	0.11	62.3	61.5	63.4	0.1	29.51528	0.473538	1996.659	1997
9	12.128	13.045	12.556	0.09	0.10	0.09	80.3	74.7	77.6	0.1	36.65218	0.588041	3079	3079
10	24.19	24.519	24.807	0.18	0.18	0.18	40.3	39.7	39.3	0.2	18.81019	0.301788	810.9546	811

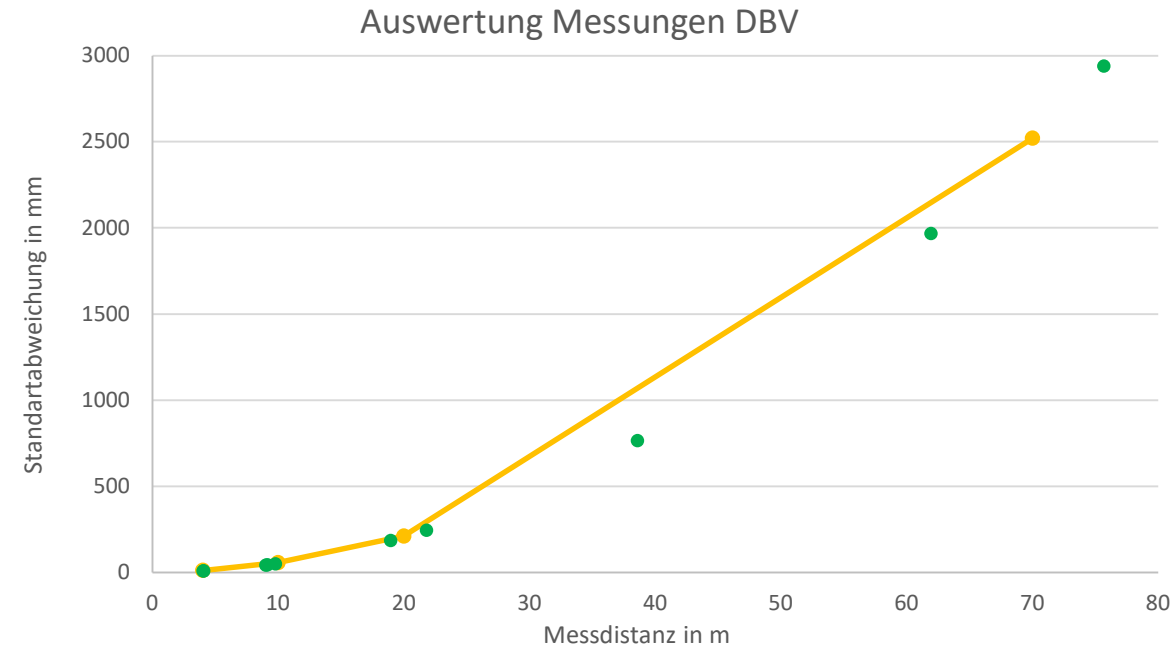
Daten 3 Berechnungen

	px M1	px M2	px M3	px M1 [mr	px M2 [mr	px M3 [mr	a M1	a M2	a M3	px mittel	Mck	Mb	Mpk	sigma s
1	239.606	238.913	238.851	1.77	1.77	1.77	4.1	4.1	4.1	1.8	1.927666	0.030927	8.516749	9
2	240.742	240.717	240.866	1.78	1.78	1.78	4.0	4.0	4.0	1.8	1.914443	0.030715	8.400304	9
3	107.435	108.56	107.56	0.80	0.80	0.80	9.1	9.0	9.1	0.8	4.273926	0.06857	41.86625	42
4	106.626	105.715	107.259	0.79	0.78	0.79	9.1	9.2	9.1	0.8	4.326815	0.069419	42.90884	43
5	99.476	99.617	99.664	0.74	0.74	0.74	9.8	9.8	9.8	0.7	4.628678	0.074262	49.10482	49
6	51.184	51.142	51.515	0.38	0.38	0.38	19.0	19.0	18.9	0.4	8.988826	0.144215	185.1894	185
7	45.095	44.744	44.838	0.33	0.33	0.33	21.6	21.8	21.7	0.3	10.2679	0.164736	241.6425	242
8	15.458	16.137	15.304	0.11	0.12	0.11	63.0	60.4	63.6	0.1	29.4857	0.473064	1992.66	1993
9	12.997	12.973	13.475	0.10	0.10	0.10	74.9	75.1	72.3	0.1	35.05768	0.56246	2816.932	2817
10	25.73	26.123	25.749	0.19	0.19	0.19	37.9	37.3	37.8	0.2	17.81977	0.285897	727.804	728

Schnitt D 1-3

Messung	Std. Abw.	Mittelwert
1	0.0087	4.1
2	0.0086	4.0
3	0.0421	9.0
4	0.0433	9.2
5	0.0495	9.8
6	0.1848	19.0
7	0.2442	21.8
8	1.9683	61.9
9	2.9384	75.7
10	0.7649	38.6

Graphik



Autor: Schmid Gian Luca

Erstelldatum: 07.06.2023