>> Untitled

Standard Errors of Estimated Stereo Camera Parameters
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Camera 1 Intrinsics
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Focal length (pixels):   [ 700.5038 +/- 0.1659   704.6196 +/- 0.1638 ]
Principal point (pixels):[ 633.5734 +/- 0.1401   347.5664 +/- 0.1545 ]
Radial distortion:       [  -0.1719 +/- 0.0001     0.0273 +/- 0.0001 ]

Camera 1 Extrinsics
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Rotation vectors:
                         [  0.2356 +/- 0.0003    0.1921 +/- 0.0002   -0.2183 +/- 0.0001 ]
                         [ -0.3591 +/- 0.0003   -0.2441 +/- 0.0003    0.0533 +/- 0.0001 ]
                         [  0.2807 +/- 0.0003   -0.5526 +/- 0.0002    0.0899 +/- 0.0001 ]
                         [  0.2646 +/- 0.0003   -0.2071 +/- 0.0002    0.1144 +/- 0.0001 ]
                         [  0.0568 +/- 0.0009   -1.0068 +/- 0.0009    2.8443 +/- 0.0003 ]
                         [ -0.2558 +/- 0.0008   -0.5384 +/- 0.0008    3.0275 +/- 0.0001 ]
                         [ -0.2463 +/- 0.0008   -0.2640 +/- 0.0008    3.0425 +/- 0.0002 ]
                         [ -0.4132 +/- 0.0013   -0.5817 +/- 0.0016    2.8312 +/- 0.0003 ]
                         [  0.3355 +/- 0.0002   -0.0058 +/- 0.0003    0.1420 +/- 0.0001 ]
                         [  0.5171 +/- 0.0003    0.5941 +/- 0.0003    0.0449 +/- 0.0001 ]
                         [  0.4571 +/- 0.0003   -0.1389 +/- 0.0003    0.0670 +/- 0.0001 ]
                         [ -0.3101 +/- 0.0002    0.3937 +/- 0.0002    0.0842 +/- 0.0001 ]
                         [  0.2868 +/- 0.0002    0.4071 +/- 0.0002    0.1903 +/- 0.0001 ]
                         [  0.2859 +/- 0.0003   -0.3100 +/- 0.0002    0.2074 +/- 0.0001 ]
                         [  0.4339 +/- 0.0002   -0.1160 +/- 0.0002    0.2021 +/- 0.0001 ]
                         [  0.1807 +/- 0.0003    0.0494 +/- 0.0003    0.1172 +/- 0.0001 ]

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[  0.4070 +/- 0.0003    -0.2043 +/- 0.0003     0.0519 +/- 0.0001 ]
[  0.4504 +/- 0.0004     0.5523 +/- 0.0003     0.2522 +/- 0.0001 ]
[  0.1343 +/- 0.0004     0.0024 +/- 0.0004    -0.0527 +/- 0.0001 ]
[ -0.4500 +/- 0.0004     0.5331 +/- 0.0003     0.1791 +/- 0.0001 ]
[ -0.1848 +/- 0.0006    -0.0110 +/- 0.0006     0.5812 +/- 0.0001 ]
[  0.0915 +/- 0.0004     0.0547 +/- 0.0004    -0.2022 +/- 0.0001 ]
[  0.0225 +/- 0.0003    -0.2439 +/- 0.0003    -0.2196 +/- 0.0001 ]
[  0.0959 +/- 0.0003    -0.0909 +/- 0.0003    -0.4589 +/- 0.0001 ]
[  0.3186 +/- 0.0003    -0.2017 +/- 0.0003     0.3250 +/- 0.0001 ]
[ -0.3586 +/- 0.0004     0.0900 +/- 0.0003     0.3995 +/- 0.0001 ]
[  0.2819 +/- 0.0003     0.1599 +/- 0.0003     0.3366 +/- 0.0001 ]
[  0.2923 +/- 0.0003    -0.1070 +/- 0.0003     0.2257 +/- 0.0001 ]
[  0.5682 +/- 0.0003    -0.1585 +/- 0.0003     0.2819 +/- 0.0001 ]
[  0.2692 +/- 0.0004    -0.1432 +/- 0.0004     0.3907 +/- 0.0001 ]
[  0.3959 +/- 0.0004    -0.0602 +/- 0.0004     0.1132 +/- 0.0001 ]
[ -0.1545 +/- 0.0004    -0.3243 +/- 0.0004     0.0315 +/- 0.0001 ]
[  0.6506 +/- 0.0004    -0.2152 +/- 0.0004     0.0714 +/- 0.0001 ]
[  0.1678 +/- 0.0008     0.1935 +/- 0.0006     0.3229 +/- 0.0001 ]
[  0.3144 +/- 0.0003    -0.1971 +/- 0.0003    -0.4052 +/- 0.0001 ]
[  0.4365 +/- 0.0004     0.0535 +/- 0.0003    -0.2883 +/- 0.0001 ]
[  0.2625 +/- 0.0004    -0.1544 +/- 0.0004     0.0133 +/- 0.0002 ]
[  0.2568 +/- 0.0004    -0.1032 +/- 0.0004     0.5576 +/- 0.0001 ]
[  0.2177 +/- 0.0004    -0.1134 +/- 0.0004     0.2054 +/- 0.0002 ]
[ -0.0908 +/- 0.0005    -0.4413 +/- 0.0005     1.7317 +/- 0.0001 ]
[  0.0914 +/- 0.0006    -0.2417 +/- 0.0007     3.1125 +/- 0.0001 ]
[  0.4906 +/- 0.0012    -0.2459 +/- 0.0013    -2.8822 +/- 0.0002 ]
[  0.1764 +/- 0.0007     0.3930 +/- 0.0007    -3.0318 +/- 0.0002 ]
[  0.0453 +/- 0.0013    -0.1679 +/- 0.0015     3.0575 +/- 0.0002 ]
[  0.6244 +/- 0.0007    -0.2241 +/- 0.0008     2.8688 +/- 0.0002 ]
[  0.7910 +/- 0.0010     0.3331 +/- 0.0011    -2.8161 +/- 0.0003 ]
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[   -0.0466 +/-  0.0006     0.2210 +/-  0.0006     2.6333 +/-  0.0002 ]
[   -0.1158 +/-  0.0006    -0.1404 +/-  0.0006     2.8307 +/-  0.0002 ]
[   -0.6012 +/-  0.0012    -0.3399 +/-  0.0012     3.0210 +/-  0.0003 ]
[   -1.0113 +/-  0.0014    -0.4540 +/-  0.0019     2.7778 +/-  0.0007 ]
[   -0.5753 +/-  0.0009    -0.4389 +/-  0.0011     2.6012 +/-  0.0003 ]
[    0.1717 +/-  0.0006     0.2656 +/-  0.0006    -2.9976 +/-  0.0001 ]
[   -0.0691 +/-  0.0005    -0.1354 +/-  0.0006     1.8247 +/-  0.0002 ]
[   -0.0309 +/-  0.0018    -0.3823 +/-  0.0025     2.8483 +/-  0.0004 ]
[   -0.0811 +/-  0.0014    -0.2427 +/-  0.0016     3.0849 +/-  0.0003 ]
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Translation vectors (millimeters):

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[  -66.0213 +/-  0.2523    144.4816 +/-  0.2684    1242.8826 +/-  0.3065 ]
[ -261.4087 +/-  0.2491    -44.8588 +/-  0.2758    1241.8995 +/-  0.2890 ]
[ -609.8928 +/-  0.1951    -14.7806 +/-  0.2028     837.5432 +/-  0.2781 ]
[ -114.6676 +/-  0.2120   -163.5603 +/-  0.2309    1034.2836 +/-  0.2740 ]
[  328.3695 +/-  0.5599   -690.6180 +/-  0.6488    2780.8984 +/-  0.7435 ]
[-1171.5273 +/-  0.6301   -152.4782 +/-  0.6083    2646.6588 +/-  0.8322 ]
[-1523.6384 +/-  0.7024   -694.7750 +/-  0.6635    2687.4637 +/-  0.9340 ]
[ -615.6672 +/-  0.5679   -568.6057 +/-  0.6093    2579.4291 +/-  0.8036 ]
[  390.6779 +/-  0.2596   -161.4650 +/-  0.2728    1208.1928 +/-  0.3313 ]
[  201.5223 +/-  0.3045   -490.1155 +/-  0.3162    1415.4299 +/-  0.3107 ]
[ -295.9833 +/-  0.2233   -404.4217 +/-  0.2506    1058.5533 +/-  0.2964 ]
[ -728.7908 +/-  0.3198   -392.7073 +/-  0.3576    1580.5576 +/-  0.3467 ]
[ -808.1083 +/-  0.2753   -501.5824 +/-  0.3117    1322.1201 +/-  0.3398 ]
[ -388.8385 +/-  0.2147   -301.6175 +/-  0.2326     992.7878 +/-  0.2793 ]
[ -622.3019 +/-  0.2065   -256.1172 +/-  0.2334     964.3510 +/-  0.2905 ]
[ -819.1539 +/-  0.2507   -528.6723 +/-  0.2892    1186.7939 +/-  0.3452 ]
[ -782.3016 +/-  0.2239   -329.7720 +/-  0.2528    1002.5009 +/-  0.3261 ]
[  194.6544 +/-  0.3289   -652.6989 +/-  0.3454    1545.6100 +/-  0.3572 ]
[  249.9908 +/-  0.4231    433.0656 +/-  0.4562    2048.3723 +/-  0.6014 ]
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[  -386.5600 +/- 0.5031    413.8353 +/- 0.5711   2499.4481 +/- 0.5490 ]
[  -837.4735 +/- 0.4478    113.3663 +/- 0.4925   2183.4224 +/- 0.5952 ]
[   837.5883 +/- 0.4454   -157.4302 +/- 0.4485   1979.7010 +/- 0.6047 ]
[   901.5852 +/- 0.4203   -121.4416 +/- 0.4171   1825.7722 +/- 0.5638 ]
[   809.5825 +/- 0.4456    -46.4717 +/- 0.4501   1992.1303 +/- 0.6088 ]
[   273.8736 +/- 0.3654   -205.9075 +/- 0.3983   1781.7284 +/- 0.5276 ]
[ -1004.6991 +/- 0.4029   -246.8310 +/- 0.4419   1922.8067 +/- 0.4648 ]
[ -1581.7006 +/- 0.4167   -320.5431 +/- 0.4405   1754.4264 +/- 0.5667 ]
[ -1602.4130 +/- 0.4101   -376.6636 +/- 0.4408   1732.3128 +/- 0.5917 ]
[ -1447.4527 +/- 0.3780   -304.0550 +/- 0.4104   1614.7182 +/- 0.5606 ]
[ -1374.9315 +/- 0.4154   -796.1583 +/- 0.4513   1789.3429 +/- 0.5805 ]
[ -1564.1916 +/- 0.4210   -906.1228 +/- 0.4614   1747.0781 +/- 0.6093 ]
[ -1130.7070 +/- 0.4206   -893.1070 +/- 0.4678   1906.9453 +/- 0.5548 ]
[  -906.0905 +/- 0.3603   -698.9878 +/- 0.4069   1617.2642 +/- 0.5023 ]
[   -93.2322 +/- 0.4185   -802.4079 +/- 0.4620   2047.1744 +/- 0.5319 ]
[   515.9616 +/- 0.3931   -524.9292 +/- 0.4189   1811.8954 +/- 0.5492 ]
[   948.5683 +/- 0.4277   -654.5309 +/- 0.4328   1787.3529 +/- 0.5699 ]
[  -254.5112 +/- 0.5124    687.7200 +/- 0.5605   2503.1208 +/- 0.7666 ]
[   -89.8436 +/- 0.4949    298.8583 +/- 0.5418   2447.7065 +/- 0.7638 ]
[ -1375.3381 +/- 0.5492    513.3175 +/- 0.5827   2513.3367 +/- 0.7824 ]
[  -838.4649 +/- 0.6062    378.6255 +/- 0.5845   2611.5034 +/- 0.8518 ]
[ -1159.8539 +/- 0.6581    284.4389 +/- 0.6221   2758.3950 +/- 0.9224 ]
[ -1352.5636 +/- 0.7392    131.4690 +/- 0.6751   2961.7614 +/- 1.0712 ]
[ -1619.1063 +/- 0.7292     73.3703 +/- 0.6512   2804.8241 +/- 0.9466 ]
[  1097.9295 +/- 0.5511    -71.4427 +/- 0.6186   2715.8501 +/- 0.7799 ]
[   326.0874 +/- 0.5371   -249.5185 +/- 0.5996   2650.5560 +/- 0.8912 ]
[  -311.3997 +/- 0.6278   -184.6890 +/- 0.6816   3060.7687 +/- 0.7386 ]
[  -881.1458 +/- 0.5935   -256.1144 +/- 0.5925   2634.8080 +/- 0.8021 ]
[ -1263.2067 +/- 0.6221   -635.8927 +/- 0.6036   2514.2564 +/- 0.8189 ]
[ -1376.8373 +/- 0.6569   -419.9967 +/- 0.6010   2502.5092 +/- 0.8823 ]
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[-1270.9281 +/- 0.6621      -709.9858 +/- 0.6582      2810.0067 +/- 0.7459   ]
[ -103.7028 +/- 0.5746      -689.9556 +/- 0.6193      2761.0316 +/- 0.6458   ]
[ 1386.5393 +/- 0.4879      -319.1132 +/- 0.5538      2315.3734 +/- 0.6757   ]
[ 1684.6957 +/- 0.6647     -1195.2978 +/- 0.7254      2993.9068 +/- 0.8966   ]
[  371.6290 +/- 0.5658      -746.4943 +/- 0.6700      2802.0941 +/- 0.9649   ]
[  356.7158 +/- 0.5640      -739.8507 +/- 0.6590      2783.8605 +/- 0.8800   ]


Camera 2 Intrinsics
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Focal length (pixels):     [  702.0270 +/- 0.1668     705.8385 +/- 0.1648   ]
Principal point (pixels):[   624.2644 +/- 0.1419     363.5819 +/- 0.1571   ]
Radial distortion:         [   -0.1720 +/- 0.0001       0.0269 +/- 0.0001   ]


Position And Orientation of Camera 2 Relative to Camera 1
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Rotation of camera 2:             [    -0.0016 +/- 0.0001      0.0176 +/- 0.0001      0.0009 +/- 0.0000   ]
Translation of camera 2 (millimeters):[ -119.6912 +/- 0.0210   -0.1118 +/- 0.0186     0.2123 +/- 0.0513   ]

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