

Raw data manuscript: “Accuracy of four digital scanners according to scanning strategy in complete arch impressions”

Unprocess data of trueness and precisión (µm)

| Scanner | Scanning strategy | Sample | Maximum external discrepancy | Maximum internal discrepancy | Average internal discrepancy | Average external discrepancy | TRUENESS | PRECISION |
|---------|-------------------|--------|------------------------------|------------------------------|------------------------------|------------------------------|--|--------------------|
| | | | | | | | Average of the mean internal and external discrepancy (no signs) | Standard deviation |
| TRIOS | a | 1 | 2753,80 | -3006,85 | -52,65 | 62,78 | 57,72 | 174,43 |
| TRIOS | a | 2 | 2605,45 | -2895,40 | -43,99 | 56,69 | 50,34 | 185,78 |
| TRIOS | a | 3 | 2964,60 | -2527,09 | -49,42 | 54,58 | 52,00 | 181,86 |
| TRIOS | a | 4 | 3121,77 | -2710,45 | -45,71 | 60,16 | 52,94 | 184,59 |
| TRIOS | a | 5 | 2741,78 | -2649,12 | -64,30 | 75,94 | 70,12 | 198,42 |
| TRIOS | a | 6 | 2091,17 | -2144,61 | -49,22 | 69,66 | 59,44 | 174,54 |
| TRIOS | a | 7 | 3068,01 | -2140,78 | -42,41 | 57,64 | 50,03 | 167,15 |
| TRIOS | a | 8 | 2660,05 | -2984,26 | -59,63 | 73,43 | 66,53 | 198,55 |
| TRIOS | a | 9 | 3133,91 | -3104,33 | -47,28 | 61,42 | 54,35 | 196,25 |
| TRIOS | a | 10 | 3129,77 | -2992,71 | -48,39 | 66,59 | 57,49 | 183,59 |
| TRIOS | b | 1 | 3067,01 | -3130,49 | -46,72 | 63,31 | 55,02 | 191,06 |
| TRIOS | b | 2 | 3154,45 | -2991,27 | -51,50 | 58,78 | 55,14 | 203,51 |
| TRIOS | b | 3 | 3140,06 | -3124,96 | -60,61 | 70,57 | 65,59 | 196,52 |
| TRIOS | b | 4 | 3122,01 | -3091,48 | -46,75 | 61,04 | 53,90 | 181,53 |
| TRIOS | b | 5 | 2980,90 | -3075,60 | -48,11 | 61,16 | 54,64 | 194,01 |
| TRIOS | b | 6 | 3104,44 | -3147,02 | -50,28 | 60,70 | 55,49 | 190,74 |
| TRIOS | b | 7 | 3154,33 | -3111,81 | -47,21 | 59,83 | 53,52 | 193,62 |
| TRIOS | b | 8 | 3043,07 | -3086,29 | -44,54 | 58,61 | 51,58 | 188,58 |

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|--------------|---|----|---------|----------|---------|--------|--------|--------|
| TRIOS | b | 9 | 2968,28 | -3143,26 | -50,54 | 60,22 | 55,38 | 200,28 |
| TRIOS | b | 10 | 3151,20 | -3132,83 | -49,87 | 62,39 | 56,13 | 205,47 |
| TRIOS | c | 1 | 3056,90 | -3000,49 | -66,36 | 53,62 | 59,99 | 187,31 |
| TRIOS | c | 2 | 3014,88 | 3154,62 | -56,93 | 63,55 | 60,24 | 201,93 |
| TRIOS | c | 3 | 3067,57 | -3100,80 | -49,67 | 61,35 | 55,51 | 197,05 |
| TRIOS | c | 4 | 3153,79 | -3123,78 | -50,21 | 55,38 | 52,80 | 175,21 |
| TRIOS | c | 5 | 3133,67 | -3126,26 | -53,08 | 61,05 | 57,07 | 202,45 |
| TRIOS | c | 6 | 3095,71 | -2999,60 | -47,10 | 58,71 | 52,91 | 190,12 |
| TRIOS | c | 7 | 3073,71 | -3123,92 | -50,38 | 61,68 | 56,03 | 200,67 |
| TRIOS | c | 8 | 3110,88 | -3106,42 | -51,23 | 61,74 | 56,49 | 196,19 |
| TRIOS | c | 9 | 3153,61 | 3155,89 | -42,95 | 59,81 | 51,38 | 190,14 |
| TRIOS | c | 10 | 3039,11 | -3110,99 | -45,97 | 60,76 | 53,37 | 191,82 |
| TRIOS | d | 1 | 3031,69 | -3155,86 | -53,43 | 62,46 | 57,95 | 202,47 |
| TRIOS | d | 2 | 3121,81 | -3107,41 | 53,62 | 73,70 | 10,04 | 210,89 |
| TRIOS | d | 3 | 3081,99 | -3143,28 | -59,64 | 75,21 | 67,43 | 218,29 |
| TRIOS | d | 4 | 3088,22 | -3121,14 | -47,99 | 60,37 | 54,18 | 210,26 |
| TRIOS | d | 5 | 3029,34 | -3150,70 | -45,96 | 62,60 | 54,28 | 196,49 |
| TRIOS | d | 6 | 3083,98 | -3038,50 | -49,44 | 60,87 | 55,16 | 212,96 |
| TRIOS | d | 7 | 2890,23 | -3120,18 | -49,91 | 65,07 | 57,49 | 187,54 |
| TRIOS | d | 8 | 3041,64 | -3041,90 | -49,74 | 55,20 | 52,47 | 194,94 |
| TRIOS | d | 9 | 3154,10 | -3135,09 | -52,88 | 70,08 | 61,48 | 205,45 |
| TRIOS | d | 10 | 3155,44 | -3120,38 | -54,26 | 63,94 | 59,10 | 218,62 |
| ITERO | a | 1 | 3110,02 | -3107,53 | -94,23 | 98,18 | 96,21 | 210,03 |
| ITERO | a | 2 | 3067,66 | -2982,74 | -59,57 | 73,43 | 66,50 | 215,15 |
| ITERO | a | 3 | 3141,74 | -3139,97 | -176,43 | 137,77 | 157,10 | 391,69 |

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|--------------|---|----|---------|----------|---------|--------|--------|--------|
| ITERO | a | 4 | 3148,78 | -3137,74 | -95,76 | 99,42 | 97,59 | 297,42 |
| ITERO | a | 5 | 3141,18 | -3149,01 | -104,59 | 115,38 | 109,99 | 304,34 |
| ITERO | a | 6 | 3136,93 | -3095,59 | -74,81 | 91,90 | 83,36 | 236,41 |
| ITERO | a | 7 | 3139,95 | -3126,84 | -122,67 | 120,67 | 121,67 | 252,13 |
| ITERO | a | 8 | 3155,17 | -2705,88 | -111,08 | 113,48 | 112,28 | 248,13 |
| ITERO | a | 9 | 3132,51 | -3145,68 | -106,56 | 112,28 | 109,42 | 249,99 |
| ITERO | a | 10 | 3063,25 | -3151,99 | -115,06 | 130,45 | 122,76 | 293,17 |
| ITERO | b | 1 | 3140,90 | -3140,18 | -128,78 | 117,20 | 122,99 | 311,30 |
| ITERO | b | 2 | 3139,42 | -3147,73 | -62,70 | 87,26 | 74,98 | 236,07 |
| ITERO | b | 3 | 3138,42 | -3082,57 | -131,88 | 127,68 | 129,78 | 286,43 |
| ITERO | b | 4 | 3143,93 | -3148,61 | -103,50 | 105,90 | 104,70 | 260,45 |
| ITERO | b | 5 | 3093,77 | -3121,70 | -108,07 | 124,74 | 116,41 | 258,56 |
| ITERO | b | 6 | 3141,80 | -3151,63 | -116,86 | 107,12 | 111,99 | 309,77 |
| ITERO | b | 7 | 3035,99 | -3118,16 | -91,39 | 101,21 | 96,30 | 231,29 |
| ITERO | b | 8 | 3140,14 | -3152,67 | -112,76 | 107,11 | 109,94 | 304,68 |
| ITERO | b | 9 | 3154,25 | -3094,08 | -109,59 | 103,31 | 106,45 | 275,24 |
| ITERO | b | 10 | 3058,84 | -3131,42 | -82,67 | 96,01 | 89,34 | 248,38 |
| ITERO | c | 1 | 3153,09 | -3132,13 | -86,01 | 100,91 | 93,46 | 283,84 |
| ITERO | c | 2 | 3136,54 | -3153,30 | -81,22 | 94,94 | 88,08 | 261,25 |
| ITERO | c | 3 | 3082,23 | -3100,14 | -78,99 | 91,92 | 85,46 | 243,10 |
| ITERO | c | 4 | 3135,34 | -3149,27 | -61,89 | 82,88 | 72,39 | 233,64 |
| ITERO | c | 5 | 3153,90 | -3119,98 | -94,39 | 87,52 | 90,96 | 238,05 |
| ITERO | c | 6 | 3020,04 | -2936,00 | -91,26 | 106,41 | 98,84 | 238,28 |
| ITERO | c | 7 | 3078,35 | -3126,61 | -94,38 | 100,10 | 97,24 | 241,49 |
| ITERO | c | 8 | 3089,98 | -3128,10 | -98,11 | 114,75 | 106,43 | 262,22 |

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|----------------|---|----|---------|----------|---------|--------|--------|--------|
| ITERO | c | 9 | 3109,55 | -3092,22 | -78,96 | 91,16 | 85,06 | 238,29 |
| ITERO | c | 10 | 3135,48 | -3129,83 | -63,78 | 83,61 | 73,70 | 240,24 |
| ITERO | d | 1 | 3154,62 | -3068,41 | -60,42 | 68,70 | 64,56 | 182,67 |
| ITERO | d | 2 | 3044,83 | -3136,98 | -66,07 | 68,51 | 67,29 | 195,70 |
| ITERO | d | 3 | 3036,73 | -3112,52 | -83,01 | 80,09 | 81,55 | 202,61 |
| ITERO | d | 4 | 2553,33 | -2786,84 | -65,48 | 71,08 | 68,28 | 157,17 |
| ITERO | d | 5 | 3154,97 | -3152,97 | -76,90 | 81,84 | 79,37 | 246,49 |
| ITERO | d | 6 | 3143,08 | -3139,71 | -72,82 | 93,18 | 83,00 | 216,13 |
| ITERO | d | 7 | 3021,46 | -3134,08 | -83,06 | 96,59 | 89,83 | 211,62 |
| ITERO | d | 8 | 2912,14 | -3123,49 | -66,57 | 67,42 | 67,00 | 192,50 |
| ITERO | d | 9 | 3145,24 | -3084,76 | -67,03 | 72,46 | 69,75 | 165,49 |
| ITERO | d | 10 | 2681,40 | -3145,40 | -70,55 | 87,87 | 79,21 | 201,28 |
| OMNICAM | a | 1 | 3111,40 | -3057,69 | -89,68 | 108,77 | 99,23 | 221,99 |
| OMNICAM | a | 2 | 3075,82 | -3150,40 | -81,87 | 101,82 | 91,85 | 268,01 |
| OMNICAM | a | 3 | 3041,26 | -3125,26 | -102,87 | 106,36 | 104,62 | 282,41 |
| OMNICAM | a | 4 | 3132,29 | -3071,90 | -116,45 | 105,72 | 111,09 | 298,41 |
| OMNICAM | a | 5 | 3143,44 | -3138,92 | -127,36 | 128,10 | 127,73 | 299,87 |
| OMNICAM | a | 6 | 3154,90 | -3134,85 | -91,27 | 95,25 | 93,26 | 288,64 |
| OMNICAM | a | 7 | 2728,10 | -2945,49 | -100,39 | 111,48 | 105,94 | 209,95 |
| OMNICAM | a | 8 | 3131,71 | -3115,08 | -72,76 | 93,69 | 83,23 | 212,76 |
| OMNICAM | a | 9 | 3149,70 | -3129,55 | -122,10 | 101,18 | 111,64 | 283,96 |
| OMNICAM | a | 10 | 3147,10 | -3132,06 | -99,39 | 95,26 | 97,33 | 235,28 |
| OMNICAM | b | 1 | 3097,97 | -3145,62 | -88,02 | 90,74 | 89,38 | 251,71 |
| OMNICAM | b | 2 | 2918,70 | -3154,80 | -99,11 | 94,76 | 96,94 | 283,63 |
| OMNICAM | b | 3 | 3034,78 | -3143,34 | -101,57 | 100,42 | 101,00 | 274,37 |

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|----------------|---|----|---------|----------|---------|--------|--------|--------|
| OMNICAM | b | 4 | 3154,69 | -3155,11 | -115,36 | 108,68 | 112,02 | 307,49 |
| OMNICAM | b | 5 | 3062,45 | -3106,46 | -68,44 | 82,15 | 75,30 | 215,85 |
| OMNICAM | b | 6 | 3116,20 | -3144,68 | -71,72 | 100,08 | 85,90 | 235,39 |
| OMNICAM | b | 7 | 3092,85 | -3121,55 | -75,69 | 95,56 | 85,63 | 191,23 |
| OMNICAM | b | 8 | 2999,42 | -3134,65 | -91,54 | 100,62 | 96,08 | 237,10 |
| OMNICAM | b | 9 | 3146,26 | -3153,53 | -66,01 | 83,64 | 74,83 | 221,41 |
| OMNICAM | b | 10 | 3146,97 | -3144,80 | -65,25 | 84,18 | 74,72 | 218,71 |
| OMNICAM | c | 1 | 3109,52 | -3154,15 | -105,92 | 105,23 | 105,58 | 293,56 |
| OMNICAM | c | 2 | 3134,81 | -3147,44 | -103,40 | 121,90 | 112,65 | 273,72 |
| OMNICAM | c | 3 | 3140,05 | -3155,28 | -91,59 | 93,59 | 92,59 | 277,08 |
| OMNICAM | c | 4 | 3145,69 | -3148,88 | -74,76 | 99,67 | 87,22 | 235,64 |
| OMNICAM | c | 5 | 3124,30 | -3149,24 | -78,50 | 86,78 | 82,64 | 243,41 |
| OMNICAM | c | 6 | 3111,58 | -3151,89 | -84,47 | 95,33 | 89,90 | 262,22 |
| OMNICAM | c | 7 | 3014,69 | -2982,42 | -77,52 | 90,41 | 83,97 | 238,92 |
| OMNICAM | c | 8 | 3146,31 | -3154,86 | -74,00 | 99,17 | 86,59 | 232,79 |
| OMNICAM | c | 9 | 2992,71 | -3086,35 | -109,73 | 103,04 | 106,39 | 294,70 |
| OMNICAM | c | 10 | 2978,00 | -3102,62 | -78,59 | 91,95 | 85,27 | 243,24 |
| OMNICAM | d | 1 | 3143,30 | -3153,77 | -128,60 | 110,43 | 119,52 | 327,42 |
| OMNICAM | d | 2 | 3113,18 | -3147,63 | -89,23 | 101,33 | 95,28 | 278,59 |
| OMNICAM | d | 3 | 3150,07 | -3154,29 | -112,71 | 128,42 | 120,57 | 284,17 |
| OMNICAM | d | 4 | 3142,13 | -2922,04 | -112,24 | 126,40 | 119,32 | 253,29 |
| OMNICAM | d | 5 | 3148,61 | -3145,94 | -121,55 | 116,01 | 118,78 | 291,14 |
| OMNICAM | d | 6 | 3123,67 | -3145,33 | -88,22 | 98,67 | 93,45 | 272,25 |
| OMNICAM | d | 7 | 2666,87 | -3152,31 | -100,49 | 82,66 | 91,58 | 277,80 |
| OMNICAM | d | 8 | 3091,72 | -3153,91 | -92,82 | 93,64 | 93,23 | 261,86 |

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|------------------------|---|----|---------|----------|---------|---------|---------|--------|
| OMNICAM | d | 9 | 3150,17 | -3155,38 | -116,68 | 110,84 | 113,76 | 318,45 |
| OMNICAM | d | 10 | 3117,92 | -3130,03 | -117,91 | 116,83 | 117,37 | 272,42 |
| TRUE DEFINITION | a | 1 | 1985,89 | -2119,41 | 40,77 | -26,64 | -33,71 | 83,77 |
| TRUE DEFINITION | a | 2 | 2880,78 | -3111,94 | 115,96 | -95,90 | -105,93 | 172,84 |
| TRUE DEFINITION | a | 3 | 2924,25 | -2699,40 | 63,14 | -53,46 | -58,30 | 86,91 |
| TRUE DEFINITION | a | 4 | 2413,14 | -2930,92 | 43,93 | -36,33 | -40,13 | 89,59 |
| TRUE DEFINITION | a | 5 | 2976,55 | -3096,48 | 126,77 | -106,47 | -116,62 | 209,94 |
| TRUE DEFINITION | a | 6 | 1717,20 | -1517,69 | 40,59 | -30,44 | -35,52 | 64,89 |
| TRUE DEFINITION | a | 7 | 2137,69 | -3087,47 | 93,53 | -85,24 | -89,39 | 145,95 |
| TRUE DEFINITION | a | 8 | 2503,71 | -2268,21 | 39,82 | -32,82 | -36,32 | 73,49 |
| TRUE DEFINITION | a | 9 | 1866,02 | -3019,21 | 50,81 | -45,61 | -48,21 | 93,62 |
| TRUE DEFINITION | a | 10 | 2763,99 | -2509,23 | 49,80 | -38,07 | -43,94 | 77,36 |
| TRUE DEFINITION | b | 1 | 2217,98 | -2513,38 | 44,30 | -37,01 | -40,66 | 87,94 |
| TRUE DEFINITION | b | 2 | 2396,34 | -1159,73 | 53,11 | -34,34 | -43,73 | 77,20 |
| TRUE DEFINITION | b | 3 | 2993,89 | -3083,23 | 124,88 | -80,30 | -102,59 | 203,24 |
| TRUE DEFINITION | b | 4 | 2074,58 | -1214,69 | 40,78 | -24,63 | -32,71 | 81,07 |
| TRUE DEFINITION | b | 5 | 2180,49 | -2921,27 | 105,85 | -69,31 | -87,58 | 168,12 |
| TRUE DEFINITION | b | 6 | 2680,46 | -3142,68 | 92,88 | -74,91 | -83,90 | 141,58 |

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|-----------------|---|----|---------|----------|--------|--------|--------|--------|
| TRUE DEFINITION | b | 7 | 2537,14 | -2400,03 | 54,52 | -31,77 | -43,15 | 90,87 |
| TRUE DEFINITION | b | 8 | 1913,26 | -3146,49 | 67,40 | -48,75 | -58,08 | 104,07 |
| TRUE DEFINITION | b | 9 | 2174,04 | -2089,97 | 57,19 | -42,64 | -49,92 | 89,84 |
| TRUE DEFINITION | b | 10 | 2311,62 | -2576,28 | 39,95 | -28,72 | -34,34 | 73,91 |
| TRUE DEFINITION | c | 1 | 2399,42 | -2481,72 | 35,34 | -32,99 | -34,17 | 74,02 |
| TRUE DEFINITION | c | 2 | 2230,83 | -2607,87 | 50,49 | -43,74 | -47,12 | 91,97 |
| TRUE DEFINITION | c | 3 | 2308,04 | -2127,31 | 48,63 | -36,21 | -42,42 | 84,49 |
| TRUE DEFINITION | c | 4 | 1808,04 | -2540,77 | 43,53 | -35,60 | -39,57 | 68,88 |
| TRUE DEFINITION | c | 5 | 3154,56 | -3096,94 | 51,61 | -39,99 | -45,80 | 96,91 |
| TRUE DEFINITION | c | 6 | 2340,64 | -2690,39 | 106,12 | -79,70 | -92,91 | 193,31 |
| TRUE DEFINITION | c | 7 | 2646,03 | -2692,01 | 45,23 | -30,55 | -37,89 | 84,07 |
| TRUE DEFINITION | c | 8 | 3121,59 | -2082,09 | 43,78 | -29,73 | -36,76 | 59,47 |
| TRUE DEFINITION | c | 9 | 3136,55 | -2471,00 | 50,23 | -38,24 | -44,24 | 78,54 |
| TRUE DEFINITION | c | 10 | 2999,04 | -1892,75 | 49,71 | -43,27 | -46,49 | 76,32 |
| TRUE DEFINITION | d | 1 | 2472,29 | -2522,96 | 51,67 | -35,77 | -43,72 | 73,49 |
| TRUE DEFINITION | d | 2 | 2039,06 | -2714,69 | 40,23 | -29,50 | -34,87 | 70,57 |
| TRUE DEFINITION | d | 3 | 2517,39 | -3135,62 | 51,56 | -41,11 | -46,34 | 85,28 |
| TRUE DEFINITION | d | 4 | 2729,57 | -2172,87 | 53,22 | -51,21 | -52,22 | 88,72 |

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|------------------------|---|----|---------|----------|-------|--------|--------|--------|
| TRUE DEFINITION | d | 5 | 2269,42 | -3040,20 | 68,91 | -70,26 | -69,59 | 108,56 |
| TRUE DEFINITION | d | 6 | 1885,22 | -1993,48 | 39,79 | -28,22 | -34,01 | 57,83 |
| TRUE DEFINITION | d | 7 | 1386,23 | -2158,66 | 39,15 | -33,24 | -36,20 | 56,64 |
| TRUE DEFINITION | d | 8 | 3056,40 | -2940,45 | 82,69 | -80,90 | -81,80 | 132,36 |
| TRUE DEFINITION | d | 9 | 2179,83 | -2038,72 | 66,52 | -44,13 | -55,33 | 97,59 |
| TRUE DEFINITION | d | 10 | 2224,78 | -2716,46 | 33,51 | -25,34 | -29,43 | 57,30 |