**Table 2 - Quantitative evaluation of descriptors, precision and recall estimation (with found overlap)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | NP | DP | NMO | NI | Precision | RecallO1 | avg ErrIM (pixel) | max ErrIM |
| SIFT | 1560.2142857142858 | 0,0065 | 304,0476 | 283.04761904761904 | 0,9269 | 0,213 | 1,686 | 6,5899 |
| SURF128 | 2235.785714285714 | 0,0093 | 107,5714 | 78.19047619047619 | 0,7195 | 0,0421 | 4,0154 | 29,1288 |
| SURF64 | 2235.785714285714 | 0,0093 | 177,6667 | 119.71428571428571 | 0,6692 | 0,0584 | 2,4113 | 17,7212 |
| ORB | 6810.761904761905 | 0,0284 | 518,3333 | 451.85714285714283 | 0,8689 | 0,0713 | 3,7444 | 13,5171 |
| ORB1000 | 765.0952380952381 | 0,0032 | 83,8095 | 66.71428571428571 | 0,7871 | 0,0994 | 3,7637 | 13,2085 |
| BRISK | 2449.0 | 0,0102 | 172,381 | 152.47619047619048 | 0,8802 | 0,07 | 4,7834 | 16,0446 |
| KAZE | 374.7142857142857 | 0,0016 | 41,4286 | 36.04761904761905 | 0,8506 | 0,1069 | 1,4126 | 8,9665 |
| AKAZE | 381.66666666666663 | 0,0016 | 42,1429 | 37.23809523809524 | 0,8699 | 0,1096 | 1,9876 | 5,4615 |

**Table 3 - Estimation of time costs**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | NP1 | NP2 | DesT1, sec | DesT2, sec | MatchT, sec | InlierT, sec | AvgDesT, ms | AvgMatchT, ms | AvgInlierT, ms | TotalNormT, sec |
| SIFT | 1521.857142857143 | 1598.5714285714287 | 0,050434 | 0,04988 | 0,039854 | 0,004817 | 0,032171 | 0,130507 | 0,017017 | 0,144984 |
| SURF128 | 2185.9523809523807 | 2285.6190476190477 | 0,065806 | 0,0599 | 0,049199 | 0,007298 | 0,028156 | 0,452753 | 0,093331 | 0,182203 |
| SURF64 | 2185.9523809523807 | 2285.6190476190477 | 0,057354 | 0,058296 | 0,027367 | 0,004965 | 0,025872 | 0,152969 | 0,041478 | 0,147982 |
| ORB | 6824.0 | 6797.523809523809 | 0,017391 | 0,017084 | 0,233166 | 0,004354 | 0,002531 | 0,448355 | 0,009635 | 0,271994 |
| ORB1000 | 731.4285714285714 | 798.7619047619048 | 0,008664 | 0,008709 | 0,002336 | 0,005056 | 0,011374 | 0,027556 | 0,07578 | 0,024764 |
| BRISK | 2421.3809523809523 | 2476.6190476190477 | 0,037804 | 0,038092 | 0,038187 | 0,004311 | 0,015497 | 0,220433 | 0,028276 | 0,118395 |
| KAZE | 383.23809523809524 | 366.1904761904762 | 0,116045 | 0,112028 | 0,002738 | 0,002439 | 0,304364 | 0,064611 | 0,067659 | 0,23325 |
| AKAZE | 385.76190476190476 | 377.57142857142856 | 0,016879 | 0,014952 | 0,001536 | 0,004112 | 0,041678 | 0,035891 | 0,110429 | 0,03748 |