**Table 1 - Quantitative evaluation of descriptors, precision and recall estimation (with found overlap)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | NP | DP | NMO | NI | Precision | RecallO1 | avg ErrIM (pixel) | max ErrIM |
| SIFT | 7643,7 | 0,013 | 1320,6 | 1221,6 | 0,924 | 0,139 | 0,655 | 3,262 |
| SURF128 | 5986,3 | 0,01 | 522,4 | 399,2 | 0,764 | 0,059 | 1,143 | 3,991 |
| SURF64 | 5986,3 | 0,01 | 811 | 602,2 | 0,742 | 0,09 | 1,161 | 3,619 |
| ORB | 30462,1 | 0,053 | 4485,4 | 3796 | 0,846 | 0,109 | 0,967 | 4,101 |
| ORB1000 | 1000 | 0,002 | 264,6 | 232,2 | 0,878 | 0,232 | 0,922 | 2,812 |
| BRISK | 11912,5 | 0,021 | 1719,8 | 1355,4 | 0,788 | 0,098 | 0,938 | 3,754 |
| KAZE | 2857,2 | 0,005 | 743 | 565 | 0,76 | 0,172 | 0,976 | 3,754 |
| AKAZE | 3109,1 | 0,005 | 653,6 | 577 | 0,883 | 0,156 | 0,877 | 3,862 |

**Table 2 - Estimation of time costs**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | NP1 | NP2 | DesT1, sec | DesT2, sec | DesT, sec | MatchT, sec | InlierT, sec | AvgDesT, ms | AvgMatchT, ms | AvgInlierT, ms | TotalNormT, sec |
| SIFT | 8849 | 6438,4 | 0,299776 | 0,291706 | 0,295741 | 0,884524 | 0,001859 | 0,039592 | 0,669282 | 0,001522 | 1,477864 |
| SURF128 | 6737 | 5235,6 | 0,434804 | 0,322133 | 0,378468 | 0,564871 | 0,001488 | 0,063034 | 1,080885 | 0,003727 | 1,323296 |
| SURF64 | 6737 | 5235,6 | 0,440111 | 0,371542 | 0,405827 | 0,308553 | 0,001128 | 0,068146 | 0,379992 | 0,001873 | 1,121334 |
| ORB | 34746 | 26178,2 | 0,093606 | 0,068553 | 0,08108 | 3,662137 | 0,002972 | 0,002656 | 0,816457 | 0,000783 | 3,827268 |
| ORB1000 | 1000 | 1000 | 0,027706 | 0,02883 | 0,028268 | 0,015535 | 0,001996 | 0,028268 | 0,058712 | 0,008594 | 0,074067 |
| BRISK | 13777 | 10048 | 0,276486 | 0,207574 | 0,24203 | 0,727723 | 0,0013 | 0,020363 | 0,423144 | 0,000959 | 1,213084 |
| KAZE | 3281 | 2433,4 | 0,69002 | 0,552437 | 0,621228 | 0,130999 | 0,00089 | 0,218665 | 0,176311 | 0,001575 | 1,374346 |
| AKAZE | 3694 | 2524,2 | 0,135548 | 0,118054 | 0,126801 | 0,066631 | 0,000712 | 0,041731 | 0,101945 | 0,001234 | 0,320945 |