|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DETECTOR TYPE | DESCRIPTOR TYPE | TOTAL KEYPOINTS ON VEHICLE | DETECTOR TIME | DESCRIPTOR TIME | MATCHED KEYPOINTS |
| SHITOMASI | BRISK | 125 | 16.7897 | 1.71073 | 88 |
| SHITOMASI | BRIEF | 125 | 16.9366 | 1.12018 | 111 |
| SHITOMASI | ORB | 125 | 17.6427 | 3.51912 | 103 |
| SHITOMASI | FREAK | 125 | 16.9244 | 39.7531 | 88 |
| SHITOMASI | AZAZE | Not responding | Not responding | Not responding | Not responding |
| SHITOMASI | SIFT | Not responding | Not responding | Not responding | Not responding |
| HARRIS | BRISK | 0 | 13.7 | 0.290759 | 0 |
| HARRIS | BRIEF | 0 | 13.0029 | 0.205698 | 0 |
| HARRIS | ORB | 0 | 13.906 | 0.143281 | 0 |
| HARRIS | FREAK | 0 | 13.4294 | 0.005043 | 0 |
| HARRIS | AZAZE | 0 | 15.063 | 40.8824 | 0 |
| HARRIS | SIFT | Not responding | Not responding | Not responding | Not responding |
| BRISK | BRISK | 264 | 238.848 | 2.5705 | 171 |
| BRISK | BRIEF | 264 | 238.975 | 1.339 | 178 |
| BRISK | ORB | 264 | 232.957 | 9.8932 | 160 |
| BRISK | FREAK | 264 | 232.301 | 33.1953 | 160 |
| BRISK | AZAZE | Not responding | Not responding | Not responding | Not responding |
| BRISK | SIFT | Not responding | Not responding | Not responding | Not responding |
| FAST | BRISK | 149 | 1.04856 | 2.0526 | 97 |
| FAST | BRIEF | 149 | 1.10389 | 1.67154 | 119 |
| FAST | ORB | 149 | 1.05798 | 4.58533 | 122 |
| FAST | FREAK | 149 | 1.06225 | 42.182 | 97 |
| FAST | AZAZE | Not responding | Not responding | Not responding | Not responding |
| BRISK | SIFT | Not responding | Not responding | Not responding | Not responding |
| ORB | BRISK | 92 | 8.40752 | 1.30441 | 73 |
| ORB | BRIEF | 92 | 8.66938 | 1.23141 | 49 |
| ORB | ORB | 92 | 8.43249 | 13.4085 | 65 |
| ORB | FREAK | 92 | 8.64218 | 40.2501 | 42 |
| ORB | AZAZE | Not responding | Not responding | Not responding | Not responding |
| ORB | SIFT | Not responding | Not responding | Not responding | Not responding |
| AZAZE | BRISK | 166 | 58.8871 | 1.55891 | 137 |
| AZAZE | BRIEF | 166 | 61.5569 | 0.691331 | 141 |
| AZAZE | ORB | 166 | 61.1742 | 9.60177 | 130 |
| AZAZE | FREAK | 166 | 57.8897 | 35.5242 | 126 |
| AZAZE | AZAZE | 166 | 57.2335 | 38.7288 | 138 |
| AZAZE | SIFT | Not responding | Not responding | Not responding | Not responding |
| SIFT | BRISK | Not responding | Not responding | Not responding | Not responding |
| SIFT | BRIEF | Not responding | Not responding | Not responding | Not responding |
| SIFT | ORB | Not responding | Not responding | Not responding | Not responding |
| SIFT | FREAK | Not responding | Not responding | Not responding | Not responding |
| SIFT | AZAZE | Not responding | Not responding | Not responding | Not responding |
| SIFT | SIFT | Not responding | Not responding | Not responding | Not responding |

Best detector based on timing: FAST detector

Best descriptor based on timing: BRIEF descriptor

Best detector based on Performance: AZAZE detector

Best descriptor based on timing: BRIEF descriptor

Best Combination: FAST-BRIEF combination