

Keypoints detector			Keypoints descriptors		
SHITOMASI			BRISK		
			BRIEF		
number of keypoints	time in ms	Matched pts	time in ms	Matched pts	
	125	42,0977		1,77734	
	118	26,3241	95	2,60485	115
	123	27,8315	88	2,69764	111
	120	28,64	80	2,73345	104
	120	21,8177	90	2,7188	101
	113	31,3984	82	4,13463	102
	114	28,6932	79	2,55989	102
	123	22,5906	85	2,6597	100
	111	19,5002	86	2,53776	109
	112	23,609	82	2,52265	100
HARRIS			BRISK		
			BRIEF		
number of keypoints	time in ms	Matched pts	time in ms	Matched pts	
	17	28,3792		0,589355	
	14	32,6843	12	1,40593	14
	18	32,7942	10	2,20982	11
	21	30,7491	14	1,79599	15
	26	33,8281	15	1,86525	20
	43	59,2363	16	1,34164	24
	18	24,6506	16	2,06668	26
	31	37,361	15	1,71834	16
	26	31,6786	23	1,65624	24
	34	42,9805	21	1,91658	23
FAST			BRISK		
			BRIEF		
number of keypoints	time in ms	Matched pts	time in ms	Matched pts	
	149	0,963288		2,62316	
	152	1,31781	97	3,0567	119
	150	1,03218	104	2,53411	130
	155	1,26562	101	3,35859	118
	149	1,20588	98	2,25453	126
	149	0,930502	85	1,96427	108
	156	1,14513	107	2,06022	123
	150	1,27626	107	3,1695	131
	138	1,03429	100	2,90582	125
	143	2,09801	100	2,09884	119
BRISK			BRISK		
			BRIEF		
number of keypoints	time in ms	Matched pts	time in ms	Matched pts	
	264	42,8021		3,67	
	282	41,6923	171	3,32	178
	282	42,447	176	3,46	205
	277	42,08	157	6,6	185
	297	69,8223	176	3,443	179
	279	45,6821	174	5,32	183
	289	40,2603	188	3,07	195
	272	40,39	173	3,28	207
	266	43,129	171	2,946	189
	254	68,27	184	3,634	183

ORB			BRISK		BRIEF	
number of keypoints	time in ms		Matched pts	time in ms	Matched pts	
	92	9,58783		2,112		
	102	11,2402		73	1,3899	49
	106	9,111		74	1,35021	43
	113	7,27233		79	1,4593	45
	109	6,81303		85	1,83543	59
	125	7,3332		79	1,62212	53
	160	19,0001		92	1,72827	78
	129	8,54963		90	2,39376	68
	127	10,737		88	1,70353	84
	128	15,118		91	1,6838	66
AKAZE			BRISK		BRIEF	
number of keypoints	time in ms		Matched pts	time in ms	Matched pts	
	166	242,478		3,28752		
	157	240,643		137	3,70142	141
	161	160,442		125	2,42771	134
	155	157,635		129	3,12617	131
	163	141,466		129	2,87278	130
	164	230,659		131	3,27935	134
	173	148,928		132	3,12447	146
	173	151,314		124	3,19772	150
	177	131,699		146	4,12247	148
	179	146,118		144	3,40917	152
SIFT			BRISK		BRIEF	
number of keypoints	time in ms		Matched pts	time in ms	Matched pts	
	138	204,123		1,85413		
	132	197,817		64	1,77102	86
	124	170,42		66	3,32289	78
	137	152,286		62	1,82141	76
	134	181,383		66	2,26986	85
	140	223,49		59	3,10577	69
	137	324,673		64	3,15571	74
	148	153,577		64	1,94262	76
	159	276,368		67	3,367431	70
	137	237,395		80	3,42656	88

ORB		FREAK		AKAZE	
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts
1,08766		2,75695		68,7236	
4,64839	106	2,24665	86	61,3137	
2,29353	102	1,59663	90	62,6413	
3,51627	99	1,14911	86	66,9777	
2,82316	103	1,62849	88	63,218	
2,4285	102	2,17841	86	71,86	
2,86796	97	1,85671	80	98,0757	
3,15556	98	1,99122	81	65,4467	
1,95042	104	1,13548	86	68,2951	
2,3066	97	1,14387	85	73,819	

ORB		FREAK		AKAZE	
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts
0,57529		1,51924		66,6871	
1,9465	12	1,539	13	58,1469	
2,10985	12	1,51008	13	63,8683	
7,12934	15	1,45481	15	64,77	
2,2	18	1,54729	15	69,5265	
1,94202	24	1,57428	17	70,4524	
2,21961	20	2,65238	20	73,8587	
1,89092	15	1,74979	12	77,9966	
2,13831	24	8,90322	21	68,306	
1,98245	22	1,30481	18	76,43	

ORB		FREAK		AKAZE	
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts
3,52863		1,28917		50,2112	
2,27418	118	1,21263	98	60,9365	
1,93951	123	0,902526	99	59,1742	
2,69328	112	1,09074	91	59,9928	
1,13241	126	2,1378	98	53,2607	
2,4157	106	1,0133	85	58,9544	
1,63251	122	1,13547	99	59,3146	
1,28881	122	1,22327	102	60,6274	
1,24212	123	1,38529	101	56,1742	
1,24741	119	1,34782	105	48,8024	

ORB		FREAK		AKAZE	
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts
2,813		7,895		53,05	
1,327	162	6,12	160	57,2177	
1,156	175	6,09	177	58,2067	
1,155	158	7,281	155	56,6117	
2,19212	167	6,511	173	57,12	
1,2556	160	12,07	161	57,37	
1,395	182	5,608	183	49,95	
1,1261	167	6,435	169	57,12	
1,425	171	6,228	178	59,799	
1,15035	172	4,9034	168	50,8094	

ORB		FREAK		AKAZE		
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts	desc ms
1,70952		7,96255		52,1071		
0,519415	67	6,77302	42	51,2726		
0,954962	70	6,40856	36	64,3322		
0,632916	72	8,234	44	68,9229		
1,20375	84	10,9406	47	70,9775		
8,63894	91	15,6767	44	60,7096		
1,54657	101	5,71003	51	62,3943		
1,11621	92	4,32482	52	60,3579		
1,57644	93	13,1852	48	58,7772		
1,45874	93	5,05721	56	72,0677		

ORB		FREAK		AKAZE		
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts	time in ms
2,8924		7,33239		65,3399		117,401
3,31623	131	6,19312	126	65,7274	138	112,567
1,51899	129	7,30775	129	85,4556	138	133,004
1,37268	127	5,30805	127	77,0915	133	131,195
1,62445	117	6,72293	121	85,2552	127	158,862
1,77086	130	10,6533	122	74,9613	129	159,22
3,49065	131	5,55181	133	71,3775	146	123,805
5,12285	137	3,83753	144	66,8676	147	172,767
1,53847	135	11,6327	147	97,1499	151	166,557
1,80686	145	6,95304	138	75,7142	150	184,941

ORB		FREAK		AKAZE		
time in ms	Matched pts	time in ms	Matched pts	time in ms	Matched pts	time in ms
0,970927				58,3618		
1,04496			65	60,4942		
1,29686			72	63,5353		
1,34435			64	57,7555		
1,50289			66	86,2002		
0,883481			59	79,665		
2,27874			59	67,0515		
1,28777			64	68,8745		
1,5891			65	73,2138		
1,34681			79	78,9497		

SIFT

Matched pts time in ms

	39,5051
112	29,1837
109	29,4552
104	30,1594
103	32,109
99	34,8879
101	27,6827
96	33,5468
106	25,7202
97	25,0834

SIFT

Matched pts time in ms

	42,8876
14	36,3153
11	43,8718
16	38,3113
19	37,7566
22	39,2571
22	33,6676
13	40,1789
24	32,893
22	36,7874

SIFT

Matched pts time in ms

	33,0099
118	34,5987
123	46,0045
110	35,7623
119	41,9913
114	42,9501
119	35,637
123	50,3816
117	29,8301
103	36,8

SIFT

Matched pts time in ms

	73,3431
182	67,2029
193	96,3124
169	74,8846
183	93,1744
171	74,4171
195	69,5776
194	72,4525
176	68,6779
183	68,5332

SIFT

Matched pts time in ms

	89,5034
67	76,2952
79	108,16
78	110,642
79	98,9473
82	112,031
95	114,199
95	120,881
94	107,171
94	131,061

SIFT

Matched pts time in ms

	40,4904
134	52,4264
134	49,2921
130	88,4674
136	66,0216
137	59,0221
147	65,6723
147	57,6655
154	73,3589
151	58,9479

SIFT

Matched pts time in ms

	139,2
82	112,105
81	147,469
85	128,66
93	149,766
90	152,237
81	109,537
82	107,811
102	103,347
104	105,127