Pipeline	Filtered	Time (s)	Precision	Recall	AUC_{α}^{F}	AUC ^F	Depth AUCF	AUC_{ℓ}^{F}	AUC_{-}^{E}	$AUC_{\alpha_{1\alpha}}^{E}$	AUCE	AUCE	Filtered	Time (s)	Precision	Recall	AUC_{-}^{F} .	AUC_{010}^F	anNet	AUC*	AUC_{os}^{E}	AUC_{-}^{E}	AUCE	AUC ^E
SuperPoint+LightGlue	0.00	0.117	88.66	99.87	32.24	48.51	64.92	48.56	46.00	63.57	77.29	62.29	0.00	0.073	68.85	94.17	6.42	15.83	29.21	17.15	17.20	34.30	50.79	34.09
+MAGSAC↓ 4	34.00 45.44 42.04	0.121 0.125 0.130	94.31 95.19 89.49	71.87 60.45 58.63	36.70 38.06 19.53	54.24 55.35 32.91	70.34 70.76	53.76 54.72 33.69	48.00 48.70 30.02	65.41 65.77 49.33	78.58 78.41 66.81	64.00 64.29 48.72	33.99 43.55 44.96	0.075 0.077 0.079	71.18 71.42 70.55	65.04 55.56 52.54	10.64 11.22 4.28	23.72 25.03	38.85 40.20 24.98	24.41 25.49	17.54 17.47	34.73 34.66 23.87	51.70 50.99 39.25	34.66 34.37 24.59
+MAGSAC _↓	59.96 66.74	0.134 0.137	93.97 94.74	43.44 36.66	22.21 21.74	35.74 35.78	51.46 51.36	36.47 36.30	34.36 36.04	52.69 54.78	69.19 70.96	52.08 53.93	61.77 66.72	0.081 0.082	71.16 71.15	38.42 33.24	5.28 5.66	14.15 14.50	27.18 27.19	15.54 15.78	10.45 10.96	24.15 24.17	39.78 39.85	24.79 25.00
+MAGSAC _↑ §	0.00 34.00 45.44	0.119 0.123 0.127	88.66 94.31 95.19	99.87 71.87 60.45	32.24 36.70 38.06	48.51 54.24 55.35	64.92 70.34 70.76	48.56 53.76 54.72	46.00 48.00 48.70	63.57 65.41 65.77	77.29 78.58 78.41	62.29 64.00 64.29	0.00 33.99 43.55	0.074 0.076 0.078	68.85 71.18 71.42	94.17 65.04 55.56	6.42 10.64 11.22	15.83 23.72 25.03	29.21 38.85 40.20	17.15 24.41 25.49	17.20 17.54 17.47	34.30 34.73 34.66	50.79 51.70 50.99	34.09 34.66 34.37
+MAGSAC _↑ 4	17.92 44.67 54.33	1.746 1.751 1.758	84.60 89.24 90.03	82.75 60.19 50.48	21.89 26.45 26.40	35.63 40.50 40.73	50.53 55.50 55.29	36.02 40.82 40.81	36.50 38.98 40.25	54.58 57.17 57.93	69.18 71.60 71.70	53.42 55.92 56.63	31.26 52.45 58.81	1.129 1.131 1.132	61.26 62.32 62.54	64.27 46.56 40.34	5.44 7.21 7.21	13.52 16.84 16.82	25.36 29.01 29.15	14.77 17.69 17.73	13.19 13.59 13.02	26.19 26.78 26.85	39.67 39.96 40.68	26.35 26.77 26.85
+CLNet +MAGSAC↑ 4	19.55 45.29	0.151 0.157	89.44 93.97	81.13 59.28	13.93 18.61	25.66 31.68	41.65 47.37	27.08 32.55	31.25 35.34	50.78 55.25	68.02 71.20	50.02 53.93	45.98 60.94	0.084 0.086	71.39 69.97	51.40 39.00	3.43 3.62	8.30 9.38	16.30 19.79	9.34 10.93	8.27 7.92	19.27 19.23	33.50 33.19	20.35 20.12
+ConvMatch +MAGSAC↑	54.75 64.96 74.04	0.160 0.239 0.242	94.80 89.94 92.63	49.83 35.76 27.85	18.71 10.24 12.17	32.75 20.16 23.75	48.61 34.61 38.77	33.36 21.67 24.90	36.11 19.15 19.94	34.97 36.14	71.91 53.30 54.62	35.81 36.90	65.90 64.24 73.97	0.086 0.116 0.118	70.05 71.05 69.34	33.94 34.93 26.99	3.54 3.13 3.64	9.46 8.96 10.04	19.28 20.45 21.37	10.76 10.85 11.68	8.61 8.13 8.27	19.50 19.03 19.09	33.79 32.97 32.97	20.64 20.04 20.11
+DeMatch (0.244 0.318	93.25 89.69	23.65 36.17	12.43 9.81	23.19	37.80 35.13	24.48 21.88	21.69 16.02	38.75 32.34	56.69 51.57	39.04 33.31	77.00 67.89	0.118	69.36 71.10	23.86 31.38	3.29 1.53	9.80 5.46	21.35 13.45	11.48 6.81	8.26 5.91	19.37 14.96	32.66 27.39	20.10 16.09
+MAGSAC↓ 1	74.08 78.25	0.322 0.323	93.01 93.67	27.74 23.57	11.18 11.43	22.53 23.27	37.46 38.05	23.72 24.25	20.02 18.97	36.65 37.35	55.90 57.01	37.52 37.78	75.98 78.69	0.126 0.126	70.07 70.20	24.90 22.07	2.04 1.65	6.28 5.97	15.28 15.23	7.87 7.62	5.38 6.28	15.37 15.83	28.16 28.71	16.30 16.94
+MAGSAC _↑ +MAGSAC _↓	23.84	0.157 0.159 0.159	96.58 97.06 97.23	89.27 87.42 85.55	49.70 51.58 51.64	64.49 66.51 66.67	75.86 78.20 78.27	63.35 65.43 65.53	52.05 51.22 51.45	68.58 68.24 69.08	80.64 80.44 81.01	67.09 66.63 67.18	28.65 38.19 41.65	0.089 0.090 0.090	72.29 72.76 72.86	68.86 62.07 58.52	9.50 11.51 11.91	20.28 24.54 24.68	34.84 38.87 39.20	21.54 24.97 25.26	16.21 16.56 16.79	31.67 32.43 33.13	47.89 48.35 48.87	31.93 32.45 32.93
+MAGSAC _↑ 4	24.63 49.29 57.92	0.201 0.205 0.208	84.86 87.83 88.55	75.72 54.77 46.14	28.54 33.98 33.25	44.24 49.01 47.90	59.60 62.86 62.15	44.13 48.62 47.76	39.98 39.93 42.86	56.76 56.75 59.54	69.96 70.07 71.68	55.57 55.58 58.03	51.96 63.63 68.71	0.131 0.133 0.133	67.85 67.18 67.31	48.25 37.04 31.86	5.41 6.80 6.78	13.60 16.06 15.62	24.55 27.94 26.88	14.52 16.93 16.43	10.65 10.57 10.30	22.91 23.56 22.24	37.26 38.20 36.83	23.61 24.11 23.12
+MAGSAC↑	79.63	0.185 0.188 0.189	89.88 94.13 94.88	29.41 22.19 18.87	20.21 18.34 17.61	34.38 31.01 30.81	51.20 47.61 47.03	35.26 32.32 31.82	17.51 20.18 23.19	33.69 37.26 41.70	52.33 56.49 59.99	34.51 37.98 41.63	61.19 72.03 74.94	0.108 0.109 0.110	71.24 72.00	34.95 26.90 23.97	4.37 4.61 4.27	11.13 11.95 11.59	22.41 23.27 23.57	12.64 13.28 13.14	7.23 6.67 6.97	17.04 17.10 17.14	30.19 30.08 30.10	18.15 17.95 18.07
+NCC +MAGSAC† (0.00 38.11	0.489 0.505	78.17 92.62	87.75 66.90	18.23 39.68	31.71 53.21	49.12 65.78	33.02 52.89	44.58 43.96	60.10 60.76	72.57 74.24	59.08 59.65	0.00 40.72	0.331 0.336	64.70 70.90	90.34 58.52	4.80 12.91	11.43 26.00	22.97 40.18	13.06 26.37	17.24 17.86	34.60 34.89	50.68 51.31	34.18 34.69
+NCMNet 1	44.26 16.61 43.43	0.520 0.275 0.281	93.07 89.43 93.80	60.82 84.09 61.37	38.87 15.03 19.39	52.80 27.20 32.75	42.83 49.23	52.49 28.35 33.79	43.93 31.26 35.02	51.36 54.40	74.42 68.19 70.53	59.70 50.27 53.32	47.23 42.15 58.05	0.342 0.184 0.186	71.18 70.94 69.35	52.18 54.83 41.90	2.83 4.57	7.87 11.43	40.21 16.76 21.96	9.16 12.65	8.98 9.12	20.75 20.97	35.13 35.01	21.62 21.70
+OANet	53.17 90.36 92.21	0.284	94.60 90.47 91.16	51.60 9.96 8.25	3.49	33.46 8.63	49.28 18.06 18.23	34.25 10.06 9.95	35.60 6.07	55.67 13.98 15.44	71.36 28.97 29.77	54.21 16.34	63.59 88.26 91.95	0.187 0.121 0.122	69.45 69.67 61.88	36.35 10.77 7.96	4.33 1.14 0.96	3.39 3.01	22.70 8.83	12.86 4.45	9.54 1.51 2.03	21.53 5.65 6.20	36.24 13.74 14.22	22.44 6.97 7.48
$+MAGSAC_{\downarrow}$	93.12	0.171 0.172	91.42	7.33	3.48 3.64	8.13 8.61	18.22	10.16	6.54 5.93	14.65	30.97	17.25 17.18	92.44	0.122	61.93	7.49	0.88	2.95	8.10 8.13	4.02 3.99	2.34	6.78	14.68	7.93
+MAGSAC _↑ §	0.26 33.99 45.50	1.787 1.791 1.795	94.31 95.20	99.70 71.85 60.38	31.97 36.64 37.95	48.35 53.95 54.81	64.95 70.10 70.21	48.42 53.56 54.32	45.89 47.95 48.25	63.32 65.25 65.94	76.83 78.41 78.76	62.01 63.87 64.31	7.54 36.70 46.20	1.480 1.482 1.484	68.51 71.09 71.31	90.89 63.98 54.47	6.72 10.59 10.76	16.53 23.43 24.36	30.26 38.71 39.64	17.83 24.24 24.92	17.00 17.47 17.46	33.78 34.17 34.70	50.17 50.75 50.61	33.65 34.13 34.25
+MAGSAC↑ 2		2.118 2.122 2.123	85.92 96.35 96.73	99.27 84.96 80.46	22.05 49.48 49.79	36.26 64.57 65.25	52.47 76.94 77.45	36.93 63.66 64.16	53.15 52.64 52.82	70.64 70.17 70.44	82.46 82.43 82.50	68.75 68.41 68.58	7.54 39.50 45.40	1.666 1.669 1.672	65.48 70.92 71.10	88.10 61.40 55.59	5.14 14.57 15.40	12.83 28.05 28.79	25.02 42.46 43.22	14.33 28.36 29.14	18.58 19.06 19.85	36.32 35.17 36.91	52.31 51.27 52.56	35.74 35.17 36.44
+MOP _{1.0K} +MiHo +MAGSAC↑	0.24 33.98 45.48	3.048 3.053 3.056	88.72 94.30	99.72 71.89 60.42	32.31 36.83 37.90	48.63 54.15	65.24 70.29 70.19	48.73 53.76 54.33	46.14 47.59 47.92	63.53 65.08 65.61	77.04 78.25	62.23 63.64 64.04	7.51 36.68 46.14	2.586 2.588 2.590	68.46 71.02	90.88 63.89 54.39	6.67 10.42 11.09	16.25 23.65 24.59	30.19 38.89 39.57	17.70 24.32 25.09	17.27 17.52 17.53	33.88 34.57	50.12 51.22	33.76 34.43
+MOP _{1.0K} +MiHo+NCC +MAGSAC _↑	0.24 25.27	3.380 3.384	95.22 85.93 96.37	99.30 85.00	21.95 48.77	36.44 64.02	52.51 76.47	36.97 63.09	54.39 52.92	71.50 70.54	82.89 82.45	69.59 68.64	7.51 39.52	2.771 2.774	71.23 65.40 70.86	88.02 61.35	5.06 14.47	12.58 27.78	24.60 42.33	14.08 28.19	17.81 19.09	34.66 35.14 35.74	51.42 51.87	34.24 34.79 35.57
+MOP _{1.5K} +MiHo +MAGSAC _↑ 5	0.25 34.02	3.384 4.201 4.206	96.76 88.72 94.33	99.71 71.86	49.75 31.92 36.70	65.20 48.27 54.15	77.40 65.11 70.29	64.12 48.43 53.71	46.48 47.23	70.54 63.68 64.72	77.05 77.99	68.80 62.40 63.31	7.50 36.69	2.777 3.472 3.474	71.03 68.46 71.05	55.57 90.79 63.90	6.92 10.47	28.84 16.78 23.79	30.57 38.71	18.09 24.32	19.86 17.11 17.95	36.87 33.74 35.07	52.67 50.15 51.48	36.47 33.67 34.83
+MOP _{1.5K} +MiHo+NCC	45.47 0.25 25.28	4.209 4.518 4.521	95.23 85.93	99.28 84.96	38.00 21.65 49.47	55.26 35.98 64.86	70.59 52.16	54.61 36.60	48.08 54.54	65.76 71.49	78.70 82.97	64.18 69.67	7.50 39.50	3.476 3.657 3.660	71.21 65.39 71.03	54.30 88.03 61.68	11.21 5.38 14.02	24.65 13.08 27.99	39.64 24.86	25.17	17.86 18.72 19.00	34.79 35.68 35.18	50.62 51.55	34.42 35.31 35.24
+MAGSAC↓ ⊆ +MOP _{2.0K} +MiHo	29.70 0.24	4.522 5.042	96.72 88.72	80.48 99.72	50.15 32.01	65.36 48.43	77.43 65.11	64.31 48.52	52.48 46.27	69.74	81.91 76.94	68.04	45.45 7.54	3.664 4.345	71.14	55.74	14.96	28.82 16.53	43.24 30.12	29.01 17.86	19.22	36.10	52.05	35.79 33.78
+MAGSAC↓ 4	34.00 45.47 0.24	5.047 5.050 5.427	94.33 95.21 85.92	71.87 60.43	36.56 37.85 21.55	54.10 55.26 35.85	70.33 70.68 52.16	53.67 54.60 36.52	47.91 48.02 54.00	65.14 65.65 71.26	78.22 78.64	63.76 64.10	36.69 46.15 7.54	4.348 4.349 4.600	71.04 71.29 65.39	63.91 54.38	10.54 11.08 5.19	23.72 24.49 12.77	38.83 39.54 24.37	24.36 25.04	17.96 18.12	34.97 35.21	51.39 51.05	34.77 34.80 35.31
+MAGSAC _↓ 2	25.28 29.70	5.431 5.432	96.35 96.76	84.97 80.52	49.49 49.81	64.77 65.13	77.08 77.39	63.78 64.11	52.18 52.31	69.95 69.84	82.15 81.91	68.09 68.02	39.52 45.46	4.603 4.606	70.95 71.10	61.48 55.54	14.50 15.25	28.28 29.00	42.65 43.13	28.48 29.13	19.30 19.78	35.95 36.56	51.72 52.35	35.66 36.23
+MAGSAC↑ 5	0.86 34.24 45.73	2.973 2.977 2.980	94.31 95.15	99.24 71.62 60.10	32.05 36.49 37.53	48.39 54.17 54.58	65.19 70.34 69.84	48.54 53.67 53.98	46.35 47.60 48.54	63.50 65.31 65.41	76.99 78.42 78.23	62.28 63.78 64.06	11.75 39.07 48.42	2.039 2.041 2.043	68.48 70.74 70.95	87.87 62.15 52.63	6.96 10.71 11.02	16.77 23.74 23.71	30.68 38.47 38.75	18.14 24.31 24.49	16.37 17.24 17.43	32.80 33.82 34.01	49.28 50.57 50.01	32.82 33.87 33.82
+MAGSAC _↑ 2	0.86 25.98 30.38	3.304 3.307 3.308	85.72 96.13 96.58	98.37 83.90 79.52	20.83 48.08 49.93	35.30 63.45 64.65	52.21 75.50 76.39	36.11 62.34 63.66	50.82 51.80 51.10	68.48 69.18 68.35	80.93 81.68 80.86	66.74 67.55 66.77	11.75 41.55 47.18	2.220 2.223 2.226	65.35 70.72 70.84	85.27 60.33 54.65	5.20 13.98 14.27	12.85 27.87 28.39	24.80 42.43 42.90	14.29 28.09 28.52	18.64 19.12 19.45	35.11 35.82 35.79	51.01 52.01 51.86	34.92 35.65 35.70
$+MOP_{1.0K}$ $+MAGSAC_{\uparrow}$	0.79 34.17	5.150 5.155	88.86 94.35	99.34 71.69	32.16 36.91	48.09 54.23	64.98 70.38	48.41 53.84	47.05 47.18	63.95 64.70	77.13 77.69	62.71 63.19	11.41 38.88	3.620 3.622	68.45 70.65	88.09 62.19	7.25 10.31	17.15 23.33	30.59 38.50	18.33 24.04	16.60 17.03	33.02 33.45	49.57 50.41	33.06 33.63
+MOP _{1.0K} +NCC +MAGSAC↑	45.70 0.79 25.90	5.158 5.463 5.467	95.21 85.78 96.28	98.47 84.10	37.26 20.84 49.02	54.32 35.38 63.63	69.87 52.23 75.83	53.82 36.15 62.83	48.38 49.54 51.36	65.90 67.71 68.78	78.82 80.59 81.49	64.36 65.95 67.21	48.21 11.41 41.35	3.624 3.801 3.804	70.88 65.32 70.73	52.69 85.46 60.45	5.18 14.50	24.02 12.86 29.14	38.84 24.52 43.57	24.48 14.19 29.07	17.31 17.92 18.79	34.14 34.45 35.77	50.25 50.54 51.55	33.90 34.30 35.37
$+MOP_{1.5K}$	30.35 0.74 34.15	5.468 6.838 6.843	96.71 88.84 94.35	79.60 99.36 71.71	49.32 31.98 36.69	64.22 48.02 54.00	75.97 64.82 70.22	63.17 48.28 53.64	51.45 45.89 47.71	68.62 63.30 64.63	81.36 76.96 77.49	67.14 62.05 63.27	47.17 11.33 38.82	3.807 4.923 4.925	70.87 68.41 70.75	54.61 88.17 62.45	7.17 10.35	28.21 16.71 23.36	42.44 30.08 38.13	28.24 17.99 23.95	18.79 16.06 16.61	35.50 32.70 33.03	51.83 49.10 49.87	35.37 32.62 33.17
+MAGSAC↓ +MOP _{1.5K} +NCC	45.64 0.74	6.846 7.151	94.35 95.23 85.75	60.24 98.48	36.69 38.00 21.48	54.80 35.69	70.22 69.95 52.50	53.64 54.25 36.56	47.71 48.32 50.14	65.74 67.92	78.96 80.50	63.27 64.34 66.18	48.14 11.33	4.927 5.101	70.90 65.29	52.83 85.66	10.35	23.36 24.10 12.51	38.13 39.11 24.10	23.95 24.60 13.89	17.05 18.02	33.03 33.38 34.63	49.87 49.32 51.18	33.17 33.25 34.61
+MAGSAC↓ §	25.86 30.32	7.155 7.156	96.26 96.69	84.13 79.65	48.82 49.76	63.43 64.38	75.55 75.98	62.60 63.37	50.92 51.89	68.63 68.97	81.53 81.36	67.03 67.40	41.43 47.25	5.104 5.107	70.67 70.87	60.35 54.42	14.35 14.20	28.38 27.90	42.19 41.96	28.30 28.02	17.52 18.05	34.74 35.96	51.41 52.42	34.55 35.47
+MAGSAC _↑ §	0.74 34.13 45.65	8.017 8.022 8.025	94.36 95.24	99.38 71.74 60.23	32.21 37.09 37.53	48.16 54.22 54.22	64.79 70.48 69.74	48.39 53.93 53.83	46.57 48.19 48.36	63.67 65.14 65.71	76.94 77.78 78.69	62.39 63.70 64.25	11.31 38.85 48.09	6.101 6.103 6.105	68.43 70.77 70.95	88.20 62.42 52.93	7.07 10.60 10.92	16.61 23.72 24.25	30.15 38.43 39.39	17.94 24.25 24.85	16.79 17.27 16.72	32.90 33.66 33.36	49.11 50.16 49.35	32.93 33.70 33.15
+MAGSAC _↑	0.74 25.86 30.33	8.402 8.406 8.407	85.76 96.28 96.68	98.47 84.12 79.60	21.03 48.50 49.28	35.37 63.48 63.92	52.29 75.60 75.69	36.23 62.53 62.96	49.96 51.47 51.84	67.80 68.68 69.35	80.50 81.35 81.59	66.09 67.17 67.59	11.31 41.48 47.27	6.351 6.354 6.357	65.27 70.61 70.74	85.55 60.15 54.22	4.76 14.53 14.04	12.32 28.23 28.22	24.01 42.01 42.26	13.70 28.26 28.17	18.24 18.16 18.57	34.67 34.65 35.75	51.20 50.76 52.07	34.71 34.52 35.46