	Filtered	Precision	Recall	AUC_{-}^{F} .	AUC_{010}^{F}	AUC.F	aDepth AUC ^F	AUC_{-}^{E}	$AUC_{\alpha_{1\alpha}}^{E}$	$AUC_{\alpha \alpha \alpha}^{E}$	AUCE	Time (s)	Filtered	Precision	Recall	AUC_{-}^{F}	AUCF	AUC.F.	anNet AUC ^E	AUC_{-}^{E}	$AUC_{\alpha_{10}}^{E}$	AUCE	AUC ^E	Time (s)
Pipeline SIFT+NNR	0.00	53.92	99.99	0.11	0.19	0.75	0.35	46.30	63.50	76.97	62.26	0.499	0.00	24.83	99.19	0.00	0.10	0.48	0.19	8.83	19.70	32.52	20.35	0.158
+MAGSAC₁ +MAGSAC↓ +ACNe	50.73 54.16	93.13 93.72	85.12 79.31	33.02 35.07	45.96 48.12	57.85 60.06	45.61 47.75	45.23 46.29	64.51 64.74	78.42 77.96	62.72 63.00	0.529 0.534	78.54 81.20	55.20 55.13	46.06 40.06	5.93 6.31	14.28 14.33	24.77 24.88	14.99 15.17	10.77 10.91	22.27 22.33	35.12 34.66	22.72 22.63	0.248 0.257
+ACNe +MAGSAC↑ +MAGSAC↓	47.62 53.26 56.21	92.54 96.38 96.80	90.85 83.41 78.33	12.73 39.43 39.86	28.08 55.32 55.72	47.64 69.98 70.42	29.48 54.91 55.34	46.58 47.27 43.82	65.19 65.28 63.61	78.99 79.02 78.16	63.59 63.86 61.87	0.516 0.519 0.520	67.86 80.20 82.44	55.02 60.44 60.41	70.85 47.25 41.59	3.15 7.96 8.27	10.94 18.00 18.92	24.98 31.28 32.35	13.02 19.08 19.84	12.49 12.65 12.29	26.10 25.65 24.96	40.82 39.95 39.50	26.47 26.08 25.58	0.167 0.189 0.195
+AdaLAM +MAGSAC↑ +MAGSAC	82.56 83.62 84.22	93.44 92.29 92.53	27.42 26.13 25.25	7.64 33.41 33.39	14.75 47.09 46.84	27.12 60.63 60.62	16.50 47.05 46.95	37.77 36.06 35.33	54.58 53.19 52.27	68.59 66.99 66.81	53.65 52.08 51.47	0.503 0.505 0.505	92.54 94.09	53.27 46.65 46.67	15.01 12.11 11.21	1.02 4.69 5.10	2.77 10.27 10.95	6.11 17.84 18.37	3.30 10.93 11.47	6.40 5.40 6.58	13.73 12.31 13.67	22.79 21.38 22.63	14.31 13.03 14.29	0.160 0.162 0.162
+CC +MAGSAC _↑ +MAGSAC	45.92 53.76 56.71	92.27 96.23	89.48 80.73	13.99 37.74 38.54	24.45 52.70 53.14	37.80 66.78	25.42 52.41	44.34 44.24 43.35	62.09 62.36	75.45 76.12	60.63 60.91 60.19	2.546 2.552 2.552	40.75 81.65 83.72	51.34 58.58	80.93 40.46 35.76	1.83 5.25 5.39	4.66 11.67	9.77 20.40 20.68	5.42 12.44 12.61	8.70 8.74 8.73	18.89 18.59	30.77 30.82 31.05	19.45 19.38 19.54	0.642 0.690 0.692
+CLNet +MAGSAC† +MAGSAC	48.44 55.27 58.21	91.36 96.13	88.00 79.18	3.09 27.94	6.91 42.25 43.05	16.55 58.04	8.85 42.74	40.97 38.46	60.35 58.02 59.55	75.36 73.88 75.00	58.89 56.79	0.553 0.556 0.556	77.43 83.73 85.55	57.74 60.98	52.39 39.26	0.47 4.32	2.16 10.17	6.81 19.92 19.56	3.14 11.47	9.04 8.43 9.07	19.84 19.07	32.09 31.89	20.32 19.80	0.180 0.182
+ConvMatch +MAGSAC↑	56.91 62.34	96.62 90.02 93.59	74.21 79.68 71.70	28.64 16.08 32.80	28.10 47.32	43.04 61.06	43.62 29.07 47.06	39.87 41.14 42.08	59.35 59.64	73.49 73.54	58.14 58.00 58.42	0.624 0.628	69.76 81.19	56.68 61.67	34.66 69.88 46.43	4.35 2.07 7.64	10.07 6.48 17.39	19.56 16.45 29.31	8.34 18.11	12.01 11.50	19.44 24.63 24.33	31.53 38.01 38.16	20.02 24.88 24.66	0.182 0.280 0.298
+MAGSAC↓ +DeMatch +MAGSAC↑	52.50 58.50	93.97 91.49 96.01	67.25 83.88 75.48	33.49 14.78 30.26	47.40 25.25 44.01	61.27 38.92 59.49	47.39 26.32 44.59	41.63 40.93 41.19	59.77 60.73 59.97	73.91 76.16 74.99	58.44 59.27 58.71	0.628 0.701 0.704	83.33 70.29 81.68	55.68 60.69	41.06 67.41 44.51	7.78 1.78 6.16	17.46 5.04 14.71	29.39 13.31 25.57	6.71 15.48	11.07 10.04 10.72	23.95 22.49 23.18	37.89 36.63 36.49	24.31 23.05 23.47	0.303 0.362 0.382
$+MAGSAC_{\downarrow}$ +FC-GNN $+MAGSAC_{\uparrow}$	61.09 50.09 51.75	96.46 95.31 97.09	70.94 85.43 83.75	31.19 15.72 47.35	45.29 24.91 61.26	38.87 73.34	45.61 26.50 60.65	41.18 48.23 47.50	60.88 65.95 65.45	75.85 78.80 78.49	59.30 64.33 63.81	0.705 0.540 0.542	83.77 79.85 81.73	60.63 63.72 64.92	39.21 47.64 43.67	6.34 4.19 9.65	15.14 10.42 19.75	26.25 19.18 31.44	15.91 11.26 20.28	9.90 12.01 12.24	21.84 24.37 24.66	35.45 38.30 38.38	22.40 24.89 25.09	0.386 0.175 0.177
+MAGSAC↓ +GMS +MAGSAC↑	52.51 57.35 62.35	97.20 86.98 88.86	82.43 65.58 59.80	5.10 36.56	61.38 10.75 48.66	73.28 22.47 60.14	12.77 48.45	47.16 37.04 35.61	53.51 52.32	78.43 66.38 65.44	52.31 51.12	0.542 0.607 0.609	82.55 87.17 89.96	51.99 47.93	41.70 25.55 20.55	9. 60 0.99 3.16	3.30 7.98	7.36 13.90	3.88 8.34	12.04 4.41 4.29	25.31 10.83 10.54	38.86 18.97 18.83	25.40 11.40 11.22	0.176 0.258 0.259
$+MAGSAC_{\downarrow}$ $+MS^2DG-Net$ $+MAGSAC_{\uparrow}$	64.63 65.89 72.85	89.16 81.13 91.36	56.37 57.55 51.69	37.20 0.08 29.38	49.16 0.47 43.00	60.09 2.32 56.55	48.82 0.96 42.98	37.35 36.29 34.93	53.89 53.60 51.88	66.66 67.96 66.45	52.63 52.62 51.08	0.610 0.570 0.573	90.91 68.23 85.37	47.92 43.13 56.58	18.62 57.12 35.26	2.95 0.00 5.24	7.57 0.17 11.75	0.83 20.69	8.04 0.33 12.56	4.23 8.65 8.82	10.41 18.88 19.00	18.94 30.45 31.25	11.19 19.33 19.69	0.260 0.221 0.258
+MAGSAC↓ +NCC +MAGSAC↑	74.45 0.00 51.39	91.80 53.09 92.48	48.72 97.88 82.89	29.92 0.11 30.83	43.16 0.19 42.77	56.64 0.74 54.19	43.24 0.35 42.60	35.12 44.66 44.69	52.73 61.89 63.21	67.78 75.50 77.48	51.88 60.68 61.79	0.574 0.955 0.987	86.90 0.00 78.72	56.47 24.54 54.97	31.24 100.29 46.19	5.47 0.00 5.77	0.10 13.07	20.13 0.47 23.07	12.40 0.19 13.97	8.34 10.18 10.64	18.03 21.17 22.42	29.66 32.98 35.60	18.68 21.44 22.88	0.266 0.434 0.525
+MAGSAC ₄ +NCMNet +MAGSAC ₅	54.41 48.02 55.02	93.13 91.08	77.91 88.31 79.26	31.92 4.03 30.59	44.06 8.75 44.43	55.41 18.93 58.42	43.80 10.57 44.48	43.18 41.33 39.97	62.07 61.17 59.57	76.78 76.33 75.11	60.68 59.61 58.22	0.991 0.660 0.663	81.20 76.49 82.91	55.11 57.99 61.02	40.69 54.06 40.65	5.87 1.42 4.29	13.29 3.98 11.15	23.54 10.40 20.90	14.24 5.27 12.11	10.38 9.91 9.43	21.91 21.05 20.77	34.47 33.56 33.69	22.25 21.51 21.30	0.533 0.311 0.313
+MAGSAC _↓ +OANet +MAGSAC _↑	57.95 66.72 69.12	96.28 94.73 96.60	74.26 63.21 59.31	30.86 15.00 25.78	44.88 26.42 40.23	59.48 40.02 56.30	45.07 27.15 40.77	40.25 37.07 35.40	59.47 56.26 55.52	74.90 72.20 72.35	58.21 55.18 54.42	0.663 0.554 0.556	84.77 80.63 85.12	60.88 60.42 62.45	36.13 50.20 38.62	4.78 3.33 5.86	9.56 14.72	21.21 20.06 26.58	12.38 10.98 15.72	8.85 10.49 11.16	19.43 22.24 23.95	32.38 35.72 37.11	20.22 22.82 24.07	0.314 0.208 0.210
+MAGSAC _↓ +MOP _{0.5K} +MiHo	70.83	97.01	56.17	26.09	40.89	57.32	41.43	36.76	57.02	73.20	55.66	0.557	86.61	62.49	34.55	6.10	14.34	26.21	15.55	10.33	21.99	35.34	22.55	0.211
$+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	40.99 51.61 54.72	86.84 95.60 96.05	94.39 84.33 79.18	1.60 42.56 44.04	4.22 55.94 57.81	10.55 68.78 70.44	5.46 55.76 57.43	50.22 49.58 48.15	67.35 66.13 65.78	79.88 78.28 78.36	64.66 64.09	1.324 1.327 1.328	62.61 80.23 82.56	46.07 59.20 59.21	70.76 46.63 40.95	0.15 8.51 8.81	0.67 17.34 18.09	3.04 28.11 28.79	1.29 17.99 18.56	11.77 11.77 12.18	24.67 23.85 24.35	38.26 37.07 37.42	24.90 24.23 24.65	0.841 0.853 0.862
$\begin{array}{l} +\mathbf{MOP}_{0.5K} + \mathbf{MiHo} + \mathbf{NCC} \\ + \mathbf{MAGSAC}_{\uparrow} \\ + \mathbf{MAGSAC}_{\downarrow} \end{array}$	40.99 51.03 53.07	85.87 95.40 95.77	93.44 84.84 81.34	1.43 41.19 41.65	4.02 54.90 55.53	10.09 67.33 68.05	5.18 54.48 55.08	47.26 47.80 47.21	64.20 65.12 65.09	77.69 78.30 78.20	63.05 63.74 63.50	1.666 1.669 1.669	62.61 79.50 81.41	45.76 59.10 58.98	71.09 48.24 43.43	0.22 8.45 8.05	0.69 17.91 17.36	3.14 28.64 28.59	1.35 18.34 18.00	11.66 11.85 11.28	24.26 23.86 23.63	37.15 37.48 37.42	24.36 24.39 24.11	1.022 1.034 1.042
$+MOP_{1.0K}+MiHo$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	40.16 51.49 54.65	85.97 95.62 96.14	95.16 84.83 79.59	1.60 42.84 44.10	4.10 56.67 57.99	9.86 68.94 70.50	5.19 56.15 57.53	48.18 48.97 48.12	66.10 66.18 65.81	78.90 78.79 78.70	64.40 64.64 64.21	1.883 1.886 1.887	61.10 79.98 82.35	45.38 59.21 59.21	72.75 47.36 41.59	0.12 7.88 8.51	0.50 16.74 17.57	2.57 27.75 28.83	1.06 17.45 18.30	11.83 12.20 11.88	25.18 23.51 23.16	38.91 36.50 36.50	25.31 24.07 23.85	1.344 1.358 1.368
+MOP _{1.0K} +MiHo+NCC +MAGSAC↑ +MAGSAC↓	40.16 50.83 52.90	85.09 95.62 95.97	94.29 85.64 82.06	1.47 41.38 43.48	3.89 54.93 56.85	9.35 67.84 69.22	4.91 54.72 56.52	48.62 47.31 46.85	66.73 64.74 64.72	79.53 78.47 77.86	64.96 63.50 63.14	2.229 2.233 2.233	61.10 79.26 81.13	45.13 59.22 59.47	73.14 48.92 44.49	0.20 7.97 8.36	0.59 17.75 17.85	2.57 29.08 29.17	1.12 18.27 18.46	12.07 11.90 12.26	25.03 24.04 24.45	38.51 37.38 37.66	25.21 24.44 24.79	1.527 1.543 1.551
$+MOP_{1.5K}+MiHo$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	39.76 51.47 54.62	85.77 95.75 96.25	95.68 85.12 79.91	1.53 40.99 43.02	3.60 55.15 56.66	9.41 68.18 69.72	4.84 54.77 56.47	50.24 49.63 48.65	67.62 67.24 66.10	80.22 79.94 79.03	66.03 65.60 64.59	2.421 2.424 2.425	60.17 79.86 82.20	45.06 59.66 59.75	73.89 47.81 42.19	0.10 8.81 9.15	0.55 18.87 19.21	2.96 30.22 30.33	1.20 19.30 19.56	12.82 12.89 12.67	25.31 25.99 25.75	38.91 39.04 38.75	25.68 25.97 25.72	1.866 1.883 1.893
+MOP _{1.5K} +MiHo+NCC +MAGSAC _↑ +MAGSAC _↓	39.76 50.80 52.84	84.94 95.65 96.07	94.84 85.93 82.40	1.42 39.75 40.92	3.28 53.09 54.37	8.85 65.72 67.05	4.52 52.85 54.11	47.85 48.09 47.24	65.88 66.29 65.24	79.52 79.37 78.50	64.42 64.58 63.66	2.768 2.772 2.772	60.17 79.11 81.00	44.79 59.23 59.32	74.20 49.10 44.47	0.12 8.03 8.43	0.48 17.95 17.74	2.84 29.48 29.44	1.14 18.49 18.54	12.09 11.76 11.60	24.25 24.58 24.56	37.58 37.85 37.84	24.64 24.73 24.67	2.053 2.071 2.080
+MOP _{2.0K} +MiHo +MAGSAC _↑ +MAGSAC _↓	39.47 51.37 54.55	85.41 95.75 96.24	95.84 85.33	1.30 42.38 43.11	2.81 55.75 56.76	7.95 68.31	4.02 55.48 56.54	50.38 49.33 47.85	67.36 67.18	79.87 80.00 79.05	65.87 65.50 64.29	3.028 3.032 3.032	59.64 79.81 82.19	44.60 59.57 59.62	74.31 47.99 42.21	0.07 8.20 8.80	0.46 17.72	2.56 28.01	1.03 17.98	11.83 12.39 12.19	24.90 24.95	38.74 38.55 37.98	25.16 25.30 24.86	2.663 2.682 2.693
+MOP _{2.0K} +MiHo+NCC +MAGSAC _↑ +MAGSAC _↓	39.47 50.72 52.78	95.64 96.02	94.97 86.06 82.51	1.15 40.76 42.72	2.55 54.01 55.71	7.35 66.70	3.69 53.82 55.41	48.94 47.56 48.33	67.06 65.56 66.16	79.05 79.02 79.47	65.53 64.05 64.65	3.429 3.433 3.433	59.64 79.00 80.92	44.45 59.25 59.27	74.87 49.46 44.63	0.07 8.02 8.20	0.43 17.42 17.53	2.55 28.31 28.79	1.02 17.92 18.17	13.08 12.47 11.47	25.33 25.08 23.80	39.05 38.32 37.40	25.82 25.29 24.23	2.926 2.945 2.955
+MOP _{0.5K} +MAGSAC† +MAGSAC	44.87 52.43 55.50	89.73 94.47 94.91	90.19 81.52 76.53	4.16 41.95 43.21	9.43 55.78 56.33	19.06 68.36 68.76	10.88 55.36 56.10	45.11 46.79 46.23	62.78 64.67 63.67	75.65 77.24 76.87	61.18 62.90 62.26	1.132 1.135 1.135	72.05 82.05 84.15	51.19 57.09 57.31	58.43 41.38 36.57	0.65 7.75 8.11	2.21 16.08 16.73	6.24 25.84 27.10	3.04 16.56 17.31	10.56 10.54 10.79	22.59 21.37 22.43	35.30 34.11 35.01	22.82 22.01 22.75	0.563 0.565 0.567
+MOP _{0.5K} +NCC +MAGSAC _↑ +MAGSAC _↓	44.87 51.85 53.76	88.78 94.36 94.65	89.44 82.28 79.05	3.17 40.00 41.35	7.96 54.42 55.25	17.47 67.46 68.18	9.53 53.96 54.93	43.50 45.99 45.14	61.60 63.45 62.62	75.08 76.18 75.72	60.06 61.87 61.16	1.464 1.467 1.467	72.05 81.27 82.85	50.76 57.14 57.17	58.26 43.09 39.29	0.63 7.30 7.95	1.84 16.61 16.87	5.49 26.31 26.78	2.65 16.74 17.20	11.62 10.63 11.22	23.04 22.16 22.61	35.38 34.98 34.30	23.35 22.59 22.71	0.712 0.715 0.717
+MOP _{1.0K} +MAGSAC _↑ +MAGSAC _↑	53.76 44.22 52.13 55.26	94.65 89.71 94.90	91.54 82.60	4.06 43.05	8.48 56.46	68.18 17.76 69.14	10.10 56.21	48.15 47.61	65.30 65.02	77.60 77.82	63.68 63.48	1.426 1.429	71.35 81.80	57.17 51.58 57.92 58.03	60.29 42.56	0.72 8.27	1.89 17.02 17.83	26.78 5.80 27.41 28.21	2.80 17.57	10.85 11.53	22.27 23.34	35.02 36.11	22.71 23.66	0.810 0.813
+MAGSAC ₁ +MOP _{1.0K} +NCC +MAGSAC ₁ +MAGSAC ₁	44.22 51.51	95.30 88.78 94.85	77.47 90.75 83.39	42.54 3.35 40.18	7.28 54.38	69.30 16.21 67.41	8.95 53.99	45.99 44.93 47.33	64.04 63.10 64.97	77.37 76.51 77.42	62.47 61.52 63.24	1.430 1.761 1.764	83.90 71.35 80.97	51.13 57.81	37.59 60.09 44.22	8.97 0.76 8.07	1.81 16.92	5.68 26.61	2.75 17.20	11.28 11.81 11.80	23.18 23.55 23.77	36.08 35.86 36.51	23.52 23.74 24.03	0.815 0.963 0.966
+MAGSAC _↓ +MOP _{1.5K} +MAGSAC _↑ +MAGSAC _↓	53.47 43.99 51.99	95.14 89.85 95.08	80.06 92.21 83.20	40.42 4.32 43.38	54.84 8.91 56.80	68.08 18.00 69.59	54.44 10.41 56.59	45.32 46.85 48.00	63.15 64.12 65.25	76.81 77.12 78.08	61.76 62.70 63.78	1.765 1.701 1.704	82.60 71.14 81.66	57.91 52.13 58.30	40.35 61.15 43.05	8.36 0.75 8.30	2.63 17.63	27.14 6.79 28.01	3.39 17.98	11.81 11.53 11.24	23.56 23.57 23.38	36.15 36.51 36.20	23.84 23.87 23.61	0.968 1.035 1.038
+MOP _{1.5K} +NCC +MAGSAC↑	55.09 43.99 51.33	95.53 89.00 95.07	78.10 91.47 84.06	43.53 4.12 41.05	56.99 8.15 55.41	70.38 16.68 68.53	9.65 55.00	47.33 45.83 46.32	64.58 63.99 64.24	77.59 77.25 77.27	63.17 62.36 62.61	1.705 2.037 2.040	83.80 71.14 80.83	58.38 51.71 58.39	38.00 60.94 44.96	8.46 0.64 8.17	2.31 17.33	28.67 6.67 28.13	3.20 17.88	11.47 11.13 12.69	23.08 23.35 24.75	35.89 35.85 37.55	23.48 23.44 25.00	1.040 1.189 1.191
$+MAGSAC_{\downarrow}$ $+MOP_{2.0K}$ $+MAGSAC_{\uparrow}$	53.34 43.80 51.91	95.38 89.72 95.12	92.58 83.51	42.24 3.97 43.61	56.36 8.56 56.56	69.23 18.00 69.40	55.94 10.18 56.52	46.68 45.72 48.32	64.92 63.98 66.30	78.01 77.30 78.80	63.20 62.33 64.47	2.041 2.015 2.018	70.90 81.58	58.58 52.18 58.64	40.93 61.58 43.36	8.29 0.61 8.36	2.10 17.47	28.11 6.34 27.44	3.02 17.76	11.85 10.77 11.46	24.04 23.27 23.89	36.58 36.92 36.49	24.16 23.66 23.95	1.193 1.303 1.306
+MAGSAC↓ +MOP _{2.0K} +NCC +MAGSAC↑	55.00 43.80 51.28	95.56 88.83 95.05	78.42 91.80 84.28	3.39 41.66	7.57 55.61	70.78 16.62 68.08	9.20 55.12	47.87 47.12 47.31	65.35 65.13 65.16	78.15 78.30 78.16	63.79 63.51 63.54	2.019 2.403 2.406	83.78 70.90 80.73	58.68 51.81 58.74	38.05 61.44 45.34	8.45 0.56 8.46	2.15 17.91	28.09 6.57 28.63	3.09 18.33	11.19 11.61 12.36	23.23 24.04 24.37	36.05 36.78 37.01	23.49 24.14 24.58	1.308 1.517 1.520
$+MAGSAC_{\downarrow}$	53.27	95.35	80.84	41.58	55.76	68.54	55.29	45.31	64.01	77.83	62.39	2.406	82.43	58.79	41.20	9.83	18.62	29.11	19.02	11.94	24.34	37.33	24.53	1.521