Pipeline	Filtered	+Runtime	Precision	Recall	AUC_{α}^{F}	AUC ^F	Depth AUC ^F	AUC_{ℓ}^{F}	AUC_{-}^{E}	$AUC_{\alpha_{1\alpha}}^{E}$	AUCE	AUCE	Filtered	+Runtime	Precision	Recall	AUC_{c}^{F} .	AUC_{010}^F	anNet AUC.	AUC*	AUC_{os}^{E}	AUC^E	AUC ^E	AUCE
SuperPoint+LightGlue	0.00	0.00	88.66	99.87	32.24	48.51	64.92	48.56	46.00	63.57	77.29	62.29	0.00	0.00	68.85	94.17	6.42	15.83	29.21	17.15	17.20	34.30	50.79	34.09
+MAGSAC↑ +MAGSAC↓ +ACNe	34.00 45.44 42.04	3.83 6.71 11.01	94.31 95.19 89.49	71.87 60.45 58.63	36.70 38.06	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	3.34 5.82 8.03	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
$^{+{\rm MAGSAC}_{\uparrow}}_{+{\rm MAGSAC}_{\downarrow}}$	59.96 66.74	14.74 16.93	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	10.68 12.22	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
+AdaLAM $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	0.00 34.00 45.44	1.59 5.49 8.28	88.66 94.31 95.19	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	1.38 4.79 7.20	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
+CC $+MAGSAC_{\uparrow}$ $+MAGSAC_{\bot}$		1391.91 1396.96 1402.15	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	1446.80 1449.48 1450.66	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† +MAGSAC	19.55 45.29 54.75	28.84 33.85 36.75	89.44 93.97	81.13 59.28 49.83	13.93 18.61 18.71	25.66 31.68 32.75	41.65 47.37 48.61	27.08 32.55 33.36	31.25 35.34 36.11	50.78 55.25	68.02 71.20 71.91	50.02 53.93 54.69	45.98 60.94 65.90	14.47 17.38 18.32	71.39 69.97 70.05	51.40 39.00 33.94	3.43 3.62 3.54	8.30 9.38 9.46	16.30 19.79 19.28	9.34 10.93 10.76	8.27 7.92 8.61	19.27 19.23 19.50	33.50 33.19 33.79	20.35 20.12 20.64
+ConvMatch +MAGSAC _↑	64.96 74.04	104.14 107.11	89.94 92.63	35.76 27.85	10.24 12.17	20.16 23.75	34.61 38.77	21.67 24.90	19.15 19.94	34.97 36.14	53.30 54.62	35.81 36.90	64.24 73.97	59.50 61.47	71.05 69.34	34.93 26.99	3.13 3.64	8.96 10.04	20.45 21.37	10.85 11.68	8.13 8.27	19.03 19.09	32.97 32.97	20.04 20.11
+MAGSAC↓ +DeMatch +MAGSAC⋄	64.35	108.51 171.55 174.88	93.25 89.69 93.01	23.65 36.17 27.74	9.81 11.18	23.19 20.70 22.53	37.80 35.13 37.46	24.48 21.88 23.72	21.69 16.02 20.02	38.75 32.34 36.65	56.69 51.57 55.90	39.04 33.31 37.52	77.00 67.89 75.98	62.05 69.81 72.66	69.36 71.10 70.07	23.86 31.38 24.90	3.29 1.53 2.04	9.80 5.46 6.28	21.35 13.45 15.28	11.48 6.81 7.87	5.91 5.38	19.37 14.96 15.37	32.66 27.39 28.16	20.10 16.09 16.30
+MAGSAC _↓	78.25	174.88 176.48	93.01 93.67	27.74 23.57 89.27	11.18	22.53 23.27 64.49	37.46 38.05	23.72 24.25	20.02 18.97	36.65 37.35 68.58	57.01	37.78	75.98 78.69	72.66 73.18	70.07 70.20	24.90 22.07 68.86	2.04 1.65	6.28 5.97	15.28 15.23	7.62	6.28	15.37 15.83	28.16 28.71 47.89	16.30 16.94
$+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	21.72 23.84 25.66	34.23 35.76 36.00	96.58 97.06 97.23	89.27 87.42 85.55	51.58 51.64	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	23.43 23.83	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
$+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	24.63 49.29 57.92	71.87 75.31 77.64	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	78.97 81.63 82.62	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
$+MS^2DG-Net$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\perp}$	71.15 79.63 82.92	58.13 60.72 61.60	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	47.47 49.51 50.73	71.24 72.00 72.01	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† +MAGSAC	0.00 38.11	317.87 331.38	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	353.51 360.03	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 +MAGSAC _↑	16.61 43.43	344.72 135.06 140.03	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	368.84 152.33 155.02	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
+MAGSAC _↓ +OANet +MAGSAC _↑	53.17 90.36 92.21	143.00 44.53 46.23	94.60 90.47 91.16	51.60 9.96 8.25	3.49 3.48	33.46 8.63 8.13	49.28 18.06 18.23	34.25 10.06 9.95	35.60 6.07 6.54	55.67 13.98 15.44	71.36 28.97 29.77	54.21 16.34 17.25	63.59 88.26 91.95	156.00 65.49 67.09	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 8.10	12.86 4.45 4.02	9.54 1.51 2.03	21.53 5.65 6.20	36.24 13.74 14.22	6.97 7.48
+MAGSAC↓ +MOP _{0.5K} +MiHo	93.12	46.69	91.42	7.33	3.64	8.61	18.22	10.16	5.93	14.65	30.97	17.18	92.44	67.24	61.93	7.49	0.88	2.95	8.13	3.99	2.34	6.78	14.68	7.93
$+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	33.99	1427.21 1431.10 1433.98	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	1926.80 1930.16 1932.60	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
$+MOP_{0.5K}+MiHo+NCC$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	25.28	1710.36 1713.47 1714.24	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	2181.64 2185.98 2189.79	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 _↑ +MAGSAC _↓	0.24 33.98	2505.48 2509.40 2512.17	88.72 94.30 95.22	99.72 71.89 60.42	32.31 36.83 37.90	48.63 54.15 54.88	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	3442.16 3445.51 3447.78	68.46 71.02 71.23	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 34.66	50.12 51.22	33.76 34.43
+MOP _{1.0K} +MiHo+NCC +MAGSAC _↑ +MAGSAC _↓	0.24 25.27	2788.83 2791.94 2792.63	85.93 96.37	99.30 85.00 80.54	21.95 48.77 49.75	36.44 64.02	52.51 76.47	36.97 63.09 64.12	54.39 52.92 53.40	71.50 70.54	82.89 82.45	69.59 68.64	7.51 39.52 45.42	3695.68 3700.08 3703.90	65.40 70.86 71.03	88.02 61.35 55.57	5.06 14.47 15.35	12.58 27.78 28.84	24.60 42.33 43.28	14.08 28.19 29.15	17.81 19.09 19.86	35.14 35.74 36.87	51.42 51.87 52.67	34.79 35.57 36.47
+MOP _{1.5K} +MiHo +MAGSAC _↑ +MAGSAC ₁	0.25 34.02	3490.67 3494.66	88.72 94.33	99.71 71.86	31.92 36.70	48.27 54.15	65.11 70.29	48.43 53.71	46.48 47.23	63.68 64.72	77.05 77.99	62.40 63.31	7.50 36.69	4655.89 4659.28	68.46 71.05	90.79 63.90	6.92 10.47	16.78 23.79	30.57 38.71	18.09 24.32	17.11 17.95	33.74 35.07	50.15 51.48	33.67 34.83
+MOP _{1.5K} +MiHo+NCC +MAGSAC _↑	0.25 25.28	3497.39 3761.13 3764.34	95.23 85.93 96.34	99.28 84.96	38.00 21.65 49.47	55.26 35.98 64.86	70.59 52.16 77.28	36.60 63.87	48.08 54.54 51.69	65.76 71.49 69.74	78.70 82.97 81.91	64.18 69.67 67.78	7.50 39.50	4661.56 4910.03 4914.36	71.21 65.39 71.03	54.30 88.03 61.68	5.38 14.02	24.65 13.08 27.99	39.64 24.86 42.70	25.17 14.44 28.24	17.86 18.72 19.00	34.79 35.68 35.18	50.62 51.55 51.55	34.42 35.31 35.24
+MAGSAC _↓ +MOP _{2.0K} +MiHo +MAGSAC _↑		3765.01 4209.57 4213.51	96.72 88.72 94.33	99.72 71.87	32.01 36.56	48.43 54.10	77.43 65.11 70.33	64.31 48.52 53.67	52.48 46.27 47.91	69.74 63.52 65.14	81.91 76.94 78.22	68.04 62.24 63.76	45.45 7.54 36.69	4918.54 5852.30 5855.77	71.14 68.46 71.04	55.74 90.78 63.91	14.96 6.94 10.54	28.82 16.53 23.72	30.12 38.83	29.01 17.86 24.36	19.22 17.32 17.96	36.10 33.86 34.97	52.05 50.18	35.79 33.78 34.77
+MAGSAC _↓ +MOP _{2.0K} +MiHo+NCC	45.47 0.24	4216.31 4538.89	95.21 85.92	60.43 99.28	37.85 21.55	55.26 35.85	70.68 52.16	54.60 36.52	48.02 54.00	65.65 71.26	78.64 82.96	64.10	46.15 7.54	5858.03 6201.13	71.29 65.39	54.38 87.94	11.08	24.49 12.77	39.54 24.37	25.04 14.11	18.12	35.21 35.62	51.05 51.75	34.80 35.31
+MAGSAC↑ +MAGSAC↓ +MOPoss	29.70	4542.03 4542.75 2440.72	96.35 96.76	84.97 80.52	49.49 49.81 32.05	64.77 65.13	77.08 77.39	63.78 64.11 48.54	52.18 52.31 46.35	69.95 69.84	82.15 81.91	68.09 68.02	39.52 45.46	6205.55 6209.63 2693.17	70.95 71.10 68.48	61.48 55.54	14.50 15.25 6.96	28.28 29.00	42.65 43.13 30.68	28.48 29.13	19.30 19.78	35.95 36.56	51.72 52.35	35.66 36.23 32.82
+MAGSAC↑ +MAGSAC↓	34.24	2440.72 2444.64 2447.37	94.31 95.15	71.62 60.10	36.49 37.53	48.39 54.17 54.58	65.19 70.34 69.84	53.67 53.98	47.60 48.54	65.31 65.41	76.99 78.42 78.23	62.28 63.78 64.06	39.07 48.42	2696.43 2698.59	70.74 70.95	62.15 52.63	10.71 11.02	23.74 23.71	38.47 38.75	24.31 24.49	17.24 17.43	33.82 34.01	50.57 50.01	33.87 33.82
$+MOP_{0.5K}+NCC$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	25.98	2723.66 2726.79 2727.64	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	2941.67 2945.65 2949.03	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 _↑ +MAGSAC ₁	34.17	4301.66 4305.65 4308.36	88.86 94.35 95.21	99.34 71.69 60.16	32.16 36.91 37.26	48.09 54.23 54.32	64.98 70.38 69.87	48.41 53.84 53.82	47.05 47.18 48.38	63.95 64.70 65.90	77.13 77.69	62.71 63.19 64.36	11.41 38.88 48.21	4858.55 4861.84 4863.96	68.45 70.65 70.88	88.09 62.19 52.69	7.25 10.31 10.59	17.15 23.33 24.02	30.59 38.50 38.84	18.33 24.04 24.48	16.60 17.03 17.31	33.02 33.45 34.14	49.57 50.41 50.25	33.06 33.63 33.90
+MOP _{1.0K} +NCC +MAGSAC _↑	0.79 25.90	4569.62 4572.85	95.21 85.78 96.28	98.47 84.10	20.84 49.02	35.38 63.63	52.23 75.83	36.15 62.83	49.54 51.36	67.71 68.78	78.82 80.59 81.49	65.95 67.21	11.41 41.35	5106.47 5110.68	65.32 70.73	85.46 60.45	5.18 14.50	12.86 29.14	38.84 24.52 43.57	24.48 14.19 29.07	17.92 18.79	34.14 34.45 35.77	50.54 51.55	33.90 34.30 35.37
$+MAGSAC_{\downarrow}$ $+MOP_{1.5K}$ $+MAGSAC_{\uparrow}$	0.74	4573.71 5744.76 5748.78	96.71 88.84 94.35	79.60 99.36 71.71	49.32 31.98 36.69	48.02 54.00	75.97 64.82 70.22	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	5114.44 6643.32 6646.64	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 +MAGSAC↓	45.64	5751.46	95.23 85.75	60.24 98.48 84.13	38.00	54.80 35.69 63.43	69.95 52.50	54.25 36.56	48.32 50.14	65.74 67.92 68.63	78.96 80.50	64.34	48.14 11.33 41.43	6648.76 6887.17 6891.45	70.90 65.29 70.67	52.83 85.66 60.35	10.59	24.10	39.11	24.60	17.05 18.02 17.52	33.38	49.32	33.25
+MAGSAC↓ +MOP _{2.0K}	25.86 30.32 0.74	6015.47 6016.35 6752.07	96.26 96.69 88.85	84.13 79.65 99.38	48.82 49.76 32.21	63.43 64.38 48.16	75.55 75.98 64.79	62.60 63.37 48.39	50.92 51.89 46.57	68.63 68.97 63.67	81.53 81.36 76.94	67.03 67.40	41.43 47.25	6891.45 6895.43 8257.38	70.67 70.87 68.43	60.35 54.42 88.20	14.35 14.20 7.07	28.38 27.90 16.61	42.19 41.96 30.15	28.30 28.02 17.94	17.52 18.05	34.74 35.96 32.90	51.41 52.42 49.11	34.55 35.47 32.93
$+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	34.13 45.65	6756.02 6758.83	94.36 95.24	71.74 60.23	37.09 37.53	54.22 54.22	70.48 69.74	53.93 53.83	48.19 48.36	65.14 65.71	77.78 78.69	63.70 64.25	38.85 48.09	8260.75 8262.77	70.77 70.95	62.42 52.93	10.60 10.92	23.72 24.25	38.43 39.39	24.25 24.85	17.27 16.72	33.66 33.36	50.16 49.35	33.70 33.15
$+MOP_{2.0K}+NCC$ $+MAGSAC_{\uparrow}$ $+MAGSAC_{\downarrow}$	0.74 25.86 30.33	7081.24 7084.46 7085.31	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	8599.77 8604.13 8607.82	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