

| Pipeline | MegaDepth | | | | | | | | | | | | ScanNet | | | | | | | | Planar | | | | | | | | IMC Photo Tourism | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|-----------|--------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|----------|-----------|--------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|----------|-----------|--------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|-------|
| | Filtered | Precision | Recall | AUC _{0.5} ^F | AUC _{0.10} ^F | AUC _{0.20} ^F | AUC _{0.3} ^F | AUC _{0.5} ^F | AUC _{0.60} ^F | AUC _{0.70} ^F | AUC _{0.8} ^F | Filtered | Precision | Recall | AUC _{0.5} ^F | AUC _{0.10} ^F | AUC _{0.20} ^F | AUC _{0.3} ^F | AUC _{0.5} ^F | AUC _{0.60} ^F | AUC _{0.70} ^F | AUC _{0.8} ^F | Filtered | Precision | Recall | AUC _{0.5} ^F | AUC _{0.10} ^F | AUC _{0.20} ^F | AUC _{0.3} ^F | AUC _{0.5} ^F | AUC _{0.60} ^F | AUC _{0.70} ^F | AUC _{0.8} ^F | AUC _{0.9} ^F | AUC _{0.95} ^F | AUC _{0.99} ^F | AUC _{0.5} ^F | AUC _{0.10} ^F | AUC _{0.20} ^F | AUC _{0.3} ^F | AUC _{0.5} ^F | AUC _{0.60} ^F | AUC _{0.70} ^F | AUC _{0.8} ^F | AUC _{0.9} ^F | AUC _{0.95} ^F | AUC _{0.99} ^F | |
| ALiKED+LightGlue | 0.00 | 92.95 | 90.72 | 39.42 | 55.31 | 69.76 | 54.83 | 45.85 | 62.99 | 76.55 | 61.79 | 0.00 | 65.50 | 93.06 | 4.75 | 11.44 | 21.96 | 12.72 | 12.84 | 26.49 | 41.04 | 26.79 | 0.00 | 76.17 | 90.91 | 37.49 | 53.63 | 61.12 | 50.75 | 0.00 | 93.63 | 90.78 | 32.94 | 47.85 | 62.38 | 47.72 | 52.89 | 68.66 | 79.96 | 67.17 | 12.67 | 22.57 | 34.88 | 23.37 | 20.50 | 35.43 | 52.34 | 36.09 |
| +MAGSAC _T | 15.88 | 95.63 | 86.88 | 47.29 | 63.00 | 75.28 | 61.86 | 45.35 | 63.11 | 77.01 | 61.82 | 33.48 | 68.44 | 65.40 | 8.46 | 18.82 | 31.39 | 19.55 | 13.30 | 26.73 | 41.02 | 26.98 | 49.92 | 81.77 | 52.73 | 40.62 | 56.82 | 63.45 | 53.63 | 15.81 | 96.29 | 86.75 | 44.16 | 59.43 | 72.47 | 58.69 | 53.33 | 69.39 | 80.61 | 67.78 | 18.90 | 30.79 | 44.36 | 31.35 | 20.84 | 36.01 | 52.91 | 36.58 |
| +MAGSAC _L | 23.71 | 96.23 | 79.40 | 47.26 | 62.83 | 75.30 | 61.79 | 46.95 | 64.84 | 78.28 | 63.35 | 40.67 | 68.40 | 57.83 | 8.90 | 19.34 | 31.57 | 19.90 | 12.85 | 26.58 | 41.04 | 26.82 | 61.56 | 82.42 | 40.39 | 41.59 | 56.43 | 63.69 | 53.90 | 23.19 | 96.74 | 79.58 | 44.40 | 59.66 | 72.68 | 58.91 | 53.71 | 69.69 | 81.11 | 68.17 | 19.21 | 31.01 | 44.59 | 31.60 | 21.02 | 36.23 | 53.36 | 36.87 |
| +ACNet | 39.70 | 93.67 | 60.76 | 28.01 | 33.71 | 49.47 | 34.39 | 31.59 | 50.39 | 67.12 | 49.70 | 42.98 | 67.49 | 54.59 | 3.03 | 8.65 | 18.01 | 9.90 | 7.28 | 17.44 | 30.29 | 18.34 | 52.20 | 77.16 | 44.12 | 32.36 | 48.25 | 56.24 | 45.61 | 41.51 | 94.59 | 59.05 | 24.27 | 38.90 | 54.79 | 39.32 | 42.78 | 60.27 | 73.89 | 58.98 | 7.86 | 15.67 | 26.57 | 16.70 | 14.13 | 26.42 | 42.20 | 27.58 |
| +MAGSAC _T | 47.23 | 95.55 | 54.51 | 24.46 | 38.80 | 54.19 | 39.15 | 32.47 | 51.46 | 67.98 | 50.64 | 58.87 | 67.69 | 41.04 | 4.70 | 10.80 | 20.42 | 11.91 | 7.88 | 17.97 | 30.70 | 18.85 | 72.64 | 80.77 | 28.14 | 34.53 | 51.09 | 58.50 | 48.04 | 48.84 | 96.33 | 52.78 | 29.98 | 45.17 | 60.30 | 45.15 | 42.90 | 60.52 | 74.23 | 59.22 | 10.84 | 19.67 | 31.22 | 29.58 | 14.17 | 26.62 | 42.58 | 27.79 |
| +MAGSAC _L | 51.60 | 96.05 | 50.32 | 24.74 | 39.06 | 54.59 | 39.46 | 33.42 | 52.50 | 69.18 | 51.73 | 62.63 | 67.70 | 37.10 | 4.37 | 10.92 | 20.92 | 12.07 | 7.87 | 18.01 | 30.89 | 18.92 | 78.24 | 81.26 | 22.17 | 35.35 | 51.53 | 58.38 | 48.42 | 52.76 | 96.71 | 48.94 | 30.49 | 45.71 | 60.71 | 45.64 | 43.29 | 60.94 | 74.71 | 59.65 | 11.15 | 19.98 | 31.57 | 29.90 | 14.58 | 27.21 | 43.11 | 28.30 |
| +AdaLAM | 0.00 | 92.95 | 90.72 | 39.42 | 55.31 | 69.76 | 54.83 | 45.85 | 62.99 | 76.55 | 61.79 | 0.00 | 65.50 | 93.06 | 4.75 | 11.44 | 21.96 | 12.72 | 12.84 | 26.49 | 41.04 | 26.79 | 0.00 | 76.17 | 90.91 | 37.49 | 53.63 | 61.12 | 50.75 | 0.00 | 93.63 | 90.78 | 32.94 | 47.85 | 62.38 | 47.72 | 52.89 | 68.66 | 79.96 | 67.17 | 12.67 | 22.57 | 34.88 | 23.37 | 20.50 | 35.43 | 52.34 | 36.09 |
| +MAGSAC _T | 15.88 | 95.63 | 86.88 | 47.29 | 63.00 | 75.28 | 61.86 | 45.35 | 63.11 | 77.01 | 61.82 | 33.48 | 68.44 | 65.40 | 8.46 | 18.82 | 31.39 | 19.55 | 13.30 | 26.73 | 41.02 | 26.98 | 49.92 | 81.77 | 52.73 | 40.62 | 56.82 | 63.45 | 53.63 | 15.81 | 96.29 | 86.75 | 44.16 | 59.43 | 72.47 | 58.69 | 53.33 | 69.39 | 80.61 | 67.78 | 18.90 | 30.79 | 44.36 | 31.35 | 20.84 | 36.01 | 52.91 | 36.58 |
| +MAGSAC _L | 23.72 | 96.23 | 79.40 | 47.26 | 62.83 | 75.30 | 61.79 | 46.95 | 64.83 | 78.26 | 63.35 | 40.67 | 68.40 | 57.83 | 8.90 | 19.34 | 31.57 | 19.90 | 12.85 | 26.58 | 41.04 | 26.82 | 61.56 | 82.42 | 40.39 | 41.59 | 56.43 | 63.69 | 53.90 | 23.19 | 96.74 | 79.58 | 44.40 | 59.66 | 72.68 | 58.91 | 53.71 | 69.69 | 81.11 | 68.17 | 19.21 | 31.01 | 44.59 | 31.60 | 21.02 | 36.22 | 53.35 | 36.87 |
| CC | 17.59 | 86.24 | 82.54 | 28.81 | 43.23 | 57.42 | 43.16 | 38.10 | 54.86 | 68.57 | 53.84 | 33.98 | 54.91 | 61.10 | 4.10 | 9.54 | 17.55 | 10.39 | 9.21 | 18.66 | 29.26 | 19.04 | 79.33 | 10.37 | 12.65 | 3.91 | 6.31 | 7.40 | 5.87 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| +MAGSAC _T | 29.82 | 88.36 | 72.49 | 34.50 | 48.73 | 61.58 | 48.27 | 30.14 | 56.25 | 69.52 | 54.97 | 54.56 | 54.91 | 44.51 | 5.39 | 11.52 | 20.15 | 12.35 | 8.49 | 18.34 | 29.90 | 19.91 | 92.81 | 11.14 | 6.78 | 3.86 | 6.29 | 7.41 | 5.86 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| +MAGSAC _L | 36.19 | 88.86 | 66.33 | 34.86 | 48.84 | 62.11 | 48.47 | 30.26 | 56.18 | 69.49 | 54.98 | 58.99 | 55.92 | 39.78 | 5.52 | 11.70 | 20.67 | 12.63 | 8.86 | 18.56 | 29.53 | 18.98 | 94.12 | 11.25 | 5.39 | 3.78 | 5.96 | 7.23 | 5.66 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| +CLNet | 14.87 | 93.37 | 85.31 | 21.13 | 34.59 | 50.17 | 35.30 | 35.01 | 53.99 | 69.56 | 52.86 | 46.80 | 68.60 | 50.87 | 1.91 | 5.00 | 11.37 | 6.09 | 6.46 | 15.74 | 27.60 | 16.60 | 17.63 | 77.43 | 80.43 | 38.47 | 53.36 | 60.82 | 50.88 | 19.67 | 94.49 | 80.87 | 35.31 | 50.97 | 36.07 | 43.50 | 60.85 | 74.15 | 59.50 | 7.37 | 14.56 | 24.60 | 15.51 | 14.20 | 26.91 | 43.03 | 28.05 | |
| +ConvMatch | 65.67 | 93.06 | 34.39 | 13.94 | 25.24 | 40.24 | 26.47 | 23.12 | 40.38 | 58.00 | 40.50 | 65.97 | 67.98 | 33.09 | 1.62 | 5.41 | 13.12 | 6.72 | 5.43 | 12.96 | 24.31 | 14.24 | 62.92 | 76.76 | 34.06 | 29.97 | 46.47 | 55.13 | 43.86 | 64.47 | 94.35 | 35.83 | 17.25 | 30.67 | 46.78 | 31.57 | 33.57 | 51.72 | 67.54 | 50.94 | 5.36 | 11.34 | 20.97 | 12.56 | 11.14 | 21.75 | 35.83 | 22.91 |
| +MAGSAC _T | 69.64 | 94.31 | 31.20 | 15.50 | 27.03 | 42.09 | 28.21 | 23.82 | 40.67 | 58.42 | 40.97 | 75.33 | 64.30 | 25.40 | 2.24 | 6.48 | 13.80 | 7.51 | 4.88 | 12.34 | 23.33 | 13.52 | 77.70 | 79.29 | 22.15 | 31.21 | 47.56 | 55.92 | 44.90 | 68.53 | 95.45 | 32.37 | 21.30 | 35.15 | 50.68 | 35.71 | 34.36 | 52.52 | 68.35 | 51.74 | 7.29 | 14.40 | 24.40 | 15.37 | 11.23 | 21.95 | 36.37 | 23.01 |
| +MAGSAC _L | 72.07 | 94.71 | 28.87 | 16.27 | 28.36 | 42.92 | 29.19 | 23.41 | 41.06 | 59.05 | 41.17 | 77.38 | 64.34 | 23.22 | 2.16 | 6.33 | 13.70 | 7.39 | 4.84 | 12.51 | 23.41 | 13.59 | 82.13 | 79.59 | 17.51 | 31.18 | 47.84 | 57.57 | 44.93 | 70.91 | 96.81 | 30.05 | 21.58 | 35.62 | 51.28 | 36.16 | 34.02 | 52.22 | 68.10 | 51.45 | 7.37 | 14.44 | 24.52 | 15.44 | 11.09 | 21.75 | 36.18 | 23.18 |
| +DeMatch | 64.63 | 93.35 | 35.44 | 11.66 | 23.18 | 38.69 | 24.51 | 22.37 | 40.04 | 58.27 | 40.23 | 68.01 | 67.36 | 31.01 | 0.93 | 3.22 | 8.95 | 4.37 | 3.63 | 9.98 | 19.43 | 11.01 | 66.67 | 76.40 | 29.50 | 24.03 | 40.71 | 50.30 | 38.35 | 65.18 | 94.39 | 35.10 | 14.69 | 27.40 | 43.16 | 28.42 | 30.21 | 48.10 | 64.31 | 47.54 | 4.48 | 9.78 | 18.42 | 10.90 | 9.36 | 18.94 | 32.29 | 20.20 |
| +MAGSAC _T | 68.65 | 94.79 | 32.16 | 14.17 | 25.72 | 40.47 | 26.79 | 22.40 | 40.18 | 58.87 | 40.43 | 76.15 | 64.28 | 24.39 | 1.46 | 4.12 | 9.84 | 5.14 | 3.53 | 9.61 | 19.76 | 10.97 | 79.83 | 79.85 | 19.60 | 27.59 | 45.31 | 53.67 | 42.19 | 69.12 | 95.78 | 31.71 | 18.27 | 31.65 | 47.14 | 32.35 | 30.60 | 48.76 | 64.91 | 48.09 | 5.93 | 12.09 | 21.25 | 13.09 | 9.42 | 19.05 | 32.46 | 20.31 |
| +MAGSAC _L | 71.12 | 95.21 | 29.79 | 14.70 | 26.27 | 40.48 | 27.15 | 21.95 | 39.99 | 58.19 | 40.04 | 78.13 | 64.34 | 22.34 | 1.61 | 4.27 | 9.97 | 5.29 | 4.05 | 10.13 | 19.33 | 11.17 | 83.69 | 80.20 | 15.50 | 26.94 | 45.20 | 53.67 | 41.94 | 71.39 | 96.12 | 29.50 | 18.76 | 32.11 | 47.64 | 32.84 | 30.61 | 48.81 | 65.14 | 48.19 | 6.21 | 12.40 | 21.58 | 13.40 | 9.26 | 18.85 | 32.54 | 20.22 |
| +FC-GNN | 13.69 | 90.09 | 90.93 | 48.08 | 64.60 | 76.81 | 63.46 | 48.41 | 60.32 | 79.82 | 64.78 | 32.30 | 70.04 | 65.88 | 7.18 | 15.90 | 27.06 | 16.71 | 12.12 | 25.03 | 38.70 | 25.28 | 13.04 | 77.94 | 82.53 | 38.14 | 53.89 | 61.17 | 51.06 | 13.63 | 95.25 | 87.70 | 38.29 | 53.49 | 67.56 | 53.11 | 51.31 | 67.43 | 79.01 | 65.92 | 15.61 | 26.45 | 39.44 | 27.17 | 19.31 | 33.83 | 50.50 | 34.55 |
| +MAGSAC _T | 15.66 | 95.63 | 89.35 | 51.67 | 66.80 | 78.39 | 65.62 | 49.76 | 66.87 | 79.50 | 65.38 | 40.67 | 70.76 | 59.67 | 8.72 | 18.15 | 29.77 | 18.82 | 12.34 | 25.44 | 39.27 | 25.68 | 51.61 | 81.27 | 49.65 | 39.86 | 55.83 | 62.76 | 52.82 | 22.25 | 96.54 | 80.21 | 43.26 | 58.35 | 71.60 | 57.74 | 52.09 | 68.11 | 79.61 | 66.70 | 18.35 | 29.88 | 43.45 | 39.56 | 20.09 | 34.91 | 51.78 | 35.59 |
| +MAGSAC _L | 17.31 | 97.85 | 87.69 | 61.72 | 69.91 | 78.46 | 66.70 | 49.46 | 66.36 | 79.25 | 65.06 | 43.23 | 70.76 | 56.96 | 8.76 | 18.35 | 29.70 | 18.93 | 12.40 | 25.36 | 39.16 | 25.64 | 62.53 | 81.93 | 38.69 | 39.92 | 55.50 | 62.40 | 52.64 | 28.30 | 96.69 | 74.32 | 43.28 | 58.52 | 71.66 | 57.85 | 52.04 | 68.29 | 79.90 | 66.74 | 18.57 | 29.99 | 43.44 | 39.67 | 19.83 | 34.49 | 51.56 | 35.29 |
| +GMS | 20.69 | 90.93 | 79.57 | 36.57 | 51.69 | 65.43 | 51.23 | 41.79 | 57.56 | 70.39 | 56.55 | 54.20 | 64.58 | 46.40 | 3.23 | 8.47 | 16.31 | 9.34 | 7.49 | 16.09 | 26.71 | 16.76 | 38.96 | 75.70 | 61.70 | 35.31 | 50.11 | 57.33 | 47.58 | 20.11 | 93.69 | 80.36 | 31.99 | 46.62 | 60.95 | 46.52 | 48.19 | 63.96 | 75.60 | 62.58 | 11.92 | 21.62 | 33.90 | 22.48 | 17.87 | 31.72 | 47.95 | 32.51 |
| +MAGSAC _T | 31.61 | 92.02 | 70.44 | 42.08 | 56.53 | 68.69 | 55.77 | 41.27 | 57.80 | 70.98 | 56.69 | 63.94 | 60.87 | 36.63 | 4.32 | 10.35 | 19.06 | 11.24 | 7.16 | 15.91 | 26.41 | 16.40 | 63.74 | 79.12 | 38.84 | 36.21 | 50.72 | 57.38 | 48.10 | 30.65 | 95.23 | 71.31 | 38.86 | 53.69 | 67.07 | 53.21 | 48.21 | 64.22 | 76.06 | 62.83 | 15.92 | 26.50 | 30.27 | 27.23 | 17.84 | 31.56 | | |