

| Pipeline                       | MegaDepth    |              |              |                  |                               | ScanNet      |              |              |                               |                               |
|--------------------------------|--------------|--------------|--------------|------------------|-------------------------------|--------------|--------------|--------------|-------------------------------|-------------------------------|
|                                | Filtered     | Precision    | Recall       | AUC <sup>P</sup> | AUC <sup>R</sup> <sub>Z</sub> | Filtered     | Precision    | Recall       | AUC <sup>P</sup> <sub>Z</sub> | AUC <sup>R</sup> <sub>Z</sub> |
| SuperPoint+LightGlue           | 0.00         | 88.66        | <b>99.87</b> | 48.56            | 62.29                         | 0.00         | 68.85        | <b>94.17</b> | 17.15                         | 34.09                         |
|                                | 34.00        | 94.31        | 71.87        | 53.76            | 64.00                         | 33.99        | 71.18        | 65.04        | 24.41                         | 34.66                         |
|                                | 45.44        | 95.19        | 60.45        | 54.72            | 64.29                         | 43.55        | 71.42        | 55.56        | 25.49                         | 34.37                         |
| +ACNe                          | 42.04        | 89.49        | 58.63        | 33.69            | 48.72                         | 44.96        | 70.55        | 52.54        | 13.83                         | 24.59                         |
| +MAGSAC <sub>7</sub>           | 59.96        | 93.97        | 43.44        | 36.47            | 52.08                         | 61.77        | 71.16        | 38.42        | 15.54                         | 24.79                         |
| +MAGSAC <sub>i</sub>           | 66.74        | 94.74        | 36.66        | 36.30            | 53.93                         | 66.72        | 71.15        | 33.24        | 15.78                         | 25.00                         |
| +AdaLAM                        | 0.00         | 88.66        | <b>99.87</b> | 48.56            | 62.29                         | 0.00         | 68.85        | <b>94.17</b> | 17.15                         | 34.09                         |
|                                | 34.00        | 94.31        | 71.87        | 53.76            | 64.00                         | 33.99        | 71.18        | 65.04        | 24.41                         | 34.66                         |
|                                | 45.44        | 95.19        | 60.45        | 54.72            | 64.29                         | 43.55        | 71.42        | 55.56        | 25.49                         | 34.37                         |
| +CC                            | 17.92        | 84.60        | 82.75        | 36.02            | 53.42                         | 31.26        | 61.26        | 64.27        | 14.77                         | 26.35                         |
|                                | 44.67        | 89.24        | 60.19        | 40.82            | 55.92                         | 52.45        | 62.32        | 46.56        | 17.69                         | 26.77                         |
|                                | 54.33        | 90.03        | 50.48        | 40.81            | 56.63                         | 58.81        | 62.54        | 40.34        | 17.73                         | 26.85                         |
| +CLNet                         | 19.55        | 89.44        | 81.13        | 27.08            | 50.02                         | 45.98        | 71.39        | 51.40        | 9.34                          | 20.35                         |
|                                | 45.29        | 93.97        | 59.28        | 32.55            | 53.93                         | 60.94        | 69.97        | 39.00        | 10.93                         | 20.12                         |
|                                | 54.75        | 94.80        | 49.83        | 33.36            | 54.69                         | 65.90        | 70.05        | 33.94        | 10.76                         | 20.64                         |
| +ConvMatch                     | 64.96        | 89.94        | 35.76        | 21.67            | 35.81                         | 64.24        | 71.05        | 34.93        | 10.85                         | 20.04                         |
|                                | 74.04        | 92.63        | 27.85        | 24.90            | 36.90                         | 73.97        | 69.34        | 26.99        | 11.68                         | 20.11                         |
|                                | 78.23        | 93.25        | 23.65        | 24.48            | 39.04                         | 77.00        | 69.36        | 23.86        | 11.48                         | 20.10                         |
| +DeMatch                       | 64.35        | 89.69        | 36.17        | 21.88            | 33.31                         | 67.89        | 71.10        | 31.38        | 6.81                          | 16.09                         |
|                                | 74.08        | 93.01        | 27.74        | 23.72            | 37.52                         | 75.98        | 70.07        | 24.90        | 7.87                          | 16.30                         |
|                                | 78.25        | 93.67        | 23.57        | 24.25            | 37.78                         | 78.69        | 70.20        | 22.07        | 7.62                          | 16.94                         |
| +FC-GNN                        | 21.72        | 96.58        | 89.27        | 63.35            | 67.09                         | 28.65        | <b>72.29</b> | 68.86        | 21.54                         | 31.93                         |
|                                | 23.84        | <b>97.06</b> | 87.42        | <b>65.43</b>     | 66.63                         | 38.19        | <b>72.76</b> | 62.07        | 24.97                         | 32.45                         |
|                                | 25.66        | <b>97.23</b> | 85.55        | <b>65.53</b>     | 67.18                         | 41.65        | <b>72.86</b> | 58.52        | 25.26                         | 32.93                         |
| +GMS                           | 24.63        | 84.86        | 75.72        | 44.13            | 55.57                         | 51.96        | 67.85        | 48.25        | 14.52                         | 23.61                         |
|                                | 49.29        | 87.83        | 54.77        | 48.62            | 55.58                         | 63.63        | 67.18        | 37.04        | 16.93                         | 24.11                         |
|                                | 57.92        | 88.55        | 46.14        | 47.76            | 58.03                         | 68.71        | 67.31        | 31.86        | 16.43                         | 23.12                         |
| +MS <sup>2</sup> DG-Net        | 71.15        | 89.88        | 29.41        | 35.26            | 34.51                         | 61.19        | 71.24        | 34.95        | 12.64                         | 18.15                         |
|                                | 79.63        | 94.13        | 22.19        | 32.32            | 37.98                         | 72.03        | 72.00        | 26.90        | 13.28                         | 17.95                         |
|                                | 82.92        | 94.88        | 18.87        | 31.82            | 41.63                         | 74.94        | 72.01        | 23.97        | 13.14                         | 18.07                         |
| +NCC                           | 0.00         | 78.17        | 87.75        | 33.02            | 59.08                         | 0.00         | 64.70        | 90.34        | 13.06                         | 34.18                         |
|                                | 38.11        | 92.62        | 66.90        | 52.89            | 59.65                         | 40.72        | 70.90        | 58.52        | 26.37                         | 34.69                         |
|                                | 44.26        | 93.07        | 60.82        | 52.49            | 59.70                         | 47.23        | 71.18        | 52.18        | 26.42                         | 34.94                         |
| +NCMNet                        | 16.61        | 89.43        | 84.09        | 28.35            | 50.27                         | 42.15        | 70.94        | 54.83        | 9.16                          | 21.62                         |
|                                | 43.43        | 93.80        | 61.37        | 33.79            | 53.32                         | 58.05        | 69.35        | 41.90        | 12.65                         | 21.70                         |
|                                | 53.17        | 94.60        | 51.60        | 34.25            | 54.21                         | 63.59        | 69.45        | 36.35        | 12.86                         | 22.44                         |
| +OANet                         | <b>90.36</b> | 90.47        | 9.96         | 10.06            | 16.34                         | <b>88.26</b> | 69.67        | 10.77        | 4.45                          | 6.97                          |
|                                | <b>92.21</b> | 91.16        | 8.25         | 9.95             | 17.25                         | <b>91.96</b> | 61.88        | 7.96         | 4.02                          | 7.48                          |
|                                | <b>93.12</b> | 91.42        | 7.33         | 10.16            | 17.18                         | <b>92.44</b> | 61.93        | 7.49         | 3.99                          | 7.93                          |
| +MOP <sub>0.5K</sub> +MiHo     | 0.26         | 88.72        | 99.70        | 48.42            | 62.01                         | 7.54         | 68.51        | <b>90.89</b> | 17.83                         | 33.65                         |
|                                | 33.99        | 94.31        | 71.85        | 53.56            | 63.87                         | 36.70        | 71.09        | 63.98        | 24.24                         | 34.13                         |
|                                | 45.50        | 95.20        | 60.38        | 54.32            | 64.31                         | 46.20        | 71.31        | 54.47        | 24.92                         | 34.25                         |
| +MOP <sub>0.5K</sub> +MiHo+NCC | 0.26         | 85.92        | 99.27        | 36.93            | 68.75                         | 7.54         | 65.48        | 88.10        | 14.33                         | 35.74                         |
|                                | 25.28        | 96.35        | 84.96        | 63.66            | 68.41                         | 39.50        | 70.92        | 61.40        | 28.36                         | 35.17                         |
|                                | 29.75        | 96.73        | 80.46        | 64.16            | 68.58                         | 45.40        | 71.10        | 55.59        | <b>29.14</b>                  | <b>36.44</b>                  |
| +MOP <sub>1.0K</sub> +MiHo     | 0.24         | 88.72        | <b>99.72</b> | 48.73            | 62.23                         | 7.51         | 68.46        | 90.88        | 17.70                         | 33.76                         |
|                                | 33.98        | 94.30        | 71.89        | 53.76            | 63.64                         | 36.68        | 71.02        | 63.89        | 24.32                         | 34.43                         |
|                                | 45.48        | 95.22        | 60.42        | 54.33            | 64.04                         | 46.14        | 71.23        | 54.39        | 25.09                         | 34.24                         |
| +MOP <sub>1.0K</sub> +MiHo+NCC | 0.24         | 85.93        | 99.30        | 36.97            | <b>69.59</b>                  | 7.51         | 65.40        | 88.02        | 14.08                         | 34.79                         |
|                                | 25.27        | 96.37        | 85.00        | 63.09            | 68.64                         | 39.52        | 70.86        | 61.35        | 28.19                         | 35.57                         |
|                                | 29.70        | 96.76        | 80.54        | 64.12            | 68.80                         | 45.42        | 71.03        | 55.57        | <b>29.15</b>                  | <b>36.47</b>                  |
| +MOP <sub>1.5K</sub> +MiHo     | 0.25         | 88.72        | 99.71        | 48.43            | 62.40                         | 7.50         | 68.46        | 90.79        | 18.09                         | 33.67                         |
|                                | 34.02        | 94.33        | 71.86        | 53.71            | 63.31                         | 36.69        | 71.05        | 63.90        | 24.32                         | 34.83                         |
|                                | 45.47        | 95.23        | 60.44        | 54.61            | 64.18                         | 46.11        | 71.21        | 54.30        | 25.17                         | 34.42                         |
| +MOP <sub>1.5K</sub> +MiHo+NCC | 0.25         | 85.93        | 99.28        | 36.60            | <b>69.67</b>                  | 7.50         | 65.39        | 88.03        | 14.44                         | 35.31                         |
|                                | 25.28        | 96.34        | 84.96        | 63.87            | 67.78                         | 39.50        | 71.03        | 61.68        | 28.24                         | 35.24                         |
|                                | 29.70        | 96.72        | 80.48        | <b>64.31</b>     | 68.04                         | 45.45        | 71.14        | 55.74        | 29.01                         | 35.79                         |
| +MOP <sub>2.0K</sub> +MiHo     | 0.24         | 88.72        | 99.72        | 48.52            | 62.24                         | 7.54         | 68.46        | 90.78        | 17.86                         | 33.78                         |
|                                | 34.00        | 94.33        | 71.87        | 53.67            | 63.76                         | 36.69        | 71.04        | 63.91        | 24.36                         | 34.77                         |
|                                | 45.47        | 95.21        | 60.43        | 54.60            | 64.10                         | 46.15        | 71.29        | 54.38        | 25.04                         | 34.80                         |
| +MOP <sub>2.0K</sub> +MiHo+NCC | 0.24         | 85.92        | 99.28        | 36.52            | <b>69.41</b>                  | 7.54         | 65.39        | 87.94        | 14.11                         | 35.31                         |
|                                | 25.28        | 96.35        | 84.97        | 63.78            | 68.09                         | 39.52        | 70.95        | 61.48        | 28.48                         | 35.66                         |
|                                | 29.70        | <b>96.76</b> | 80.52        | 64.11            | 68.02                         | 45.46        | 71.10        | 55.54        | <b>29.13</b>                  | <b>36.23</b>                  |
| +MOP <sub>0.5K</sub>           | 0.86         | 88.80        | 99.24        | 48.54            | 62.28                         | 11.75        | 68.48        | 87.87        | 18.14                         | 32.82                         |
|                                | 34.24        | 94.31        | 71.62        | 53.67            | 63.78                         | 39.07        | 70.74        | 62.15        | 24.31                         | 33.87                         |
|                                | 45.73        | 95.15        | 60.10        | 53.98            | 64.06                         | 48.42        | 70.95        | 52.63        | 24.49                         | 33.82                         |
| +MOP <sub>0.5K</sub> +NCC      | 0.86         | 85.72        | 98.37        | 36.11            | 66.74                         | 11.75        | 65.35        | 85.27        | 14.29                         | 34.92                         |
|                                | 25.98        | 96.13        | 83.90        | 62.34            | 67.55                         | 41.55        | 70.72        | 60.33        | 28.09                         | 35.65                         |
|                                | 30.38        | 96.58        | 79.52        | 63.66            | 66.77                         | 47.18        | 70.84        | 54.65        | 28.52                         | 35.70                         |
| +MOP <sub>1.0K</sub>           | 0.79         | 88.86        | 99.34        | 48.41            | 62.71                         | 11.41        | 68.45        | 88.09        | 18.33                         | 33.06                         |
|                                | 34.17        | 94.35        | 71.69        | 53.84            | 63.19                         | 38.88        | 70.65        | 62.19        | 24.04                         | 33.63                         |
|                                | 45.70        | 95.21        | 60.16        | 53.82            | 64.36                         | 48.21        | 70.88        | 52.69        | 24.48                         | 33.90                         |
| +MOP <sub>1.0K</sub> +NCC      | 0.79         | 85.78        | 98.47        | 36.15            | 65.95                         | 11.41        | 65.32        | 85.46        | 14.19                         | 34.30                         |
|                                | 25.90        | 96.28        | 84.10        | 62.83            | 67.21                         | 41.35        | 70.73        | 60.45        | 29.07                         | 35.37                         |
|                                | 30.35        | 96.71        | 79.60        | 63.17            | 67.14                         | 47.17        | 70.87        | 54.61        | 28.24                         | 35.37                         |
| +MOP <sub>1.5K</sub>           | 0.74         | 88.84        | 99.36        | 48.28            | 62.05                         | 11.33        | 68.41        | 88.17        | 17.99                         | 32.62                         |
|                                | 34.15        | 94.35        | 71.71        | 53.64            | 63.27                         | 38.82        | 70.75        | 62.45        | 23.95                         | 33.17                         |
|                                | 45.64        | 95.23        | 60.24        | 54.25            | 64.34                         | 48.14        | 70.90        | 52.83        | 24.60                         | 33.25                         |
| +MOP <sub>1.5K</sub> +NCC      | 0.74         | 85.75        | 98.48        | 36.56            | 66.18                         | 11.33        | 65.29        | 85.66        | 13.89                         | 34.61                         |
|                                | 25.86        | 96.26        | 84.13        | 62.60            | 67.03                         | 41.43        | 70.67        | 60.35        | 28.30                         | 34.55                         |
|                                | 30.32        | 96.69        | 79.65        | 63.37            | 67.40                         | 47.25        | 70.87        | 54.42        | 28.02                         | 35.47                         |
| +MOP <sub>2.0K</sub>           | 0.74         | 88.85        | 99.38        | 48.39            | 62.39                         | 11.31        | 68.43        | 88.20        | 17.94                         | 32.93                         |
|                                | 34.13        | 94.36        | 71.74        | 53.93            | 63.70                         | 38.85        | 70.77        | 62.42        | 24.25                         | 33.70                         |
|                                | 45.65        | 95.24        | 60.23        | 53.83            | 64.25                         | 48.09        | 70.95        | 52.93        | 24.85                         | 33.15                         |
| +MOP <sub>2.0K</sub> +NCC      | 0.74         | 85.76        | 98.47        | 36.23            | 66.09                         | 11.31        | 65.27        | 85.55        | 13.70                         | 34.71                         |
|                                | 25.86        | 96.28        | 84.12        | 62.53            | 67.17                         | 41.48        | 70.61        | 60.15        | 28.26                         | 34.52                         |
|                                | 30.33        | 96.68        | 79.60        | 62.96            | 67.59                         | 47.27        | 70.74        | 54.22        | 28.17                         | 35.46                         |