

Pipeline	MegaDepth					ScanNet					Planar				IMC PhotoTourism						
	Filtered	Precision	Recall	AUC $^F_{\angle}$	AUC $^E_{\angle}$	Filtered	Precision	Recall	AUC $^F_{\angle}$	AUC $^E_{\angle}$	Filtered	Precision	Recall	AUC $^H_{\square}$	Filtered	Precision	Recall	AUC $^F_{\angle}$	AUC $^E_{\angle}$	AUC $^E_{\square}$	
Key.Net+AffNet+HardNet	0.00	55.25	<b>100.00</b>	0.28	58.64	0.00	35.32	<b>99.14</b>	0.41	23.12	0.00	61.39	<b>97.68</b>	26.29	0.00	49.95	<b>99.98</b>	0.56	0.50	61.28	32.42
+ACNe	44.49	88.17	89.73	23.71	58.00	57.15	58.68	71.79	9.99	24.04	39.88	75.03	76.36	43.88	52.28	87.51	85.05	20.94	7.59	62.10	31.58
+ACNe+MAGSAC $_{\top}$	58.65	94.88	72.18	46.29	59.43	74.24	64.58	46.79	17.32	23.71	73.41	84.85	38.13	47.58	63.20	93.91	69.45	43.70	20.30	61.93	31.34
+ACNe+MAGSAC $_{\downarrow}$	63.78	95.58	63.78	45.98	58.97	77.67	64.54	40.44	17.06	24.33	81.25	85.18	26.91	44.39	67.49	94.41	61.66	44.37	20.74	62.11	31.59
+AdaLAM	<b>94.16</b>	89.61	8.72	18.21	29.07	<b>96.86</b>	43.96	4.36	1.89	3.89	87.24	69.75	14.92	30.08	<b>97.26</b>	77.95	4.21	9.16	5.06	17.12	9.12
+AdaLAM+MAGSAC $_{\top}$	<b>94.83</b>	73.42	7.72	22.14	27.60	<b>97.72</b>	27.00	3.22	2.74	3.78	92.10	67.11	9.69	31.63	<b>97.58</b>	50.08	3.65	10.07	5.76	16.47	8.78
+AdaLAM+MAGSAC $_{\downarrow}$	<b>95.20</b>	73.66	7.22	22.28	28.23	<b>97.89</b>	26.96	2.97	2.78	3.61	<b>94.11</b>	67.55	7.31	30.48	<b>97.71</b>	50.15	3.47	10.14	5.79	16.57	8.94
+CC	43.30	88.22	88.13	22.78	57.12	44.18	58.68	<b>74.80</b>	5.80	18.29	18.88	75.06	<b>96.56</b>	<b>61.29</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a
+CC+MAGSAC $_{\top}$	59.28	95.09	69.70	46.14	56.70	76.00	65.09	42.71	11.73	18.34	69.24	84.47	43.38	52.12	n/a	n/a	n/a	n/a	n/a	n/a	n/a
+CC+MAGSAC $_{\downarrow}$	64.27	<b>95.75</b>	61.71	45.94	57.36	79.11	65.11	37.20	11.98	18.50	78.60	85.03	30.41	48.65	n/a	n/a	n/a	n/a	n/a	n/a	n/a
+CLNet	46.58	87.22	84.85	6.50	53.69	70.26	62.57	<b>52.58</b>	2.87	17.24	31.70	76.53	<b>86.03</b>	51.14	54.46	<b>88.22</b>	<b>81.60</b>	10.85	3.22	<b>57.83</b>	<b>28.22</b>
+CLNet+MAGSAC $_{\top}$	61.14	94.55	66.88	35.07	54.08	79.49	65.69	37.92	7.79	17.06	69.95	84.08	42.18	51.02	65.27	94.04	65.61	36.06	16.35	58.33	28.48
+CLNet+MAGSAC $_{\downarrow}$	66.01	95.26	59.00	35.76	53.71	82.09	65.51	33.11	7.58	16.94	78.99	84.89	29.78	47.71	69.33	94.51	58.20	36.31	16.50	58.06	28.26
+ConvMatch	57.31	86.27	74.90	23.32	51.80	65.30	63.01	<b>65.15</b>	8.08	21.42	76.05	69.98	37.41	30.45	59.83	87.73	77.27	26.08	9.41	58.39	28.10
+ConvMatch+MAGSAC $_{\top}$	68.56	91.76	59.30	36.07	52.50	77.95	66.65	42.85	13.98	22.69	89.65	71.94	18.21	28.34	69.55	93.46	61.43	40.12	17.40	58.78	28.17
+ConvMatch+MAGSAC $_{\downarrow}$	72.51	92.39	52.28	36.31	52.66	80.77	<b>66.58</b>	37.29	13.99	22.31	<b>92.46</b>	72.21	13.21	26.94	73.15	93.95	54.37	40.45	17.57	58.97	28.47
+DeMatch	51.71	87.83	<b>80.18</b>	20.59	52.43	65.89	61.71	<b>62.60</b>	6.46	19.87	61.52	76.10	52.04	40.66	58.34	87.40	77.96	23.99	8.91	58.83	28.65
+DeMatch+MAGSAC $_{\top}$	64.47	94.67	63.28	35.25	52.97	78.37	65.74	41.41	12.16	20.66	82.03	83.60	26.97	41.14	68.48	93.66	61.97	39.19	17.43	58.66	28.71
+DeMatch+MAGSAC $_{\downarrow}$	68.90	95.29	55.81	35.64	53.47	81.18	65.71	35.95	12.22	20.11	86.97	83.94	19.24	39.07	72.20	94.16	54.87	39.36	17.62	58.63	28.45
+FC-GNN	50.48	94.36	84.27	26.41	63.06	72.49	<b>67.84</b>	49.91	10.21	25.52	36.22	81.78	<b>85.89</b>	<b>57.59</b>	56.45	92.47	79.84	21.11	10.60	<b>66.27</b>	<b>36.39</b>
+FC-GNN+MAGSAC $_{\top}$	53.48	<b>96.74</b>	<b>80.97</b>	<b>59.39</b>	62.61	75.83	<b>69.67</b>	45.03	18.25	25.52	52.89	84.58	65.55	55.75	59.11	<b>95.43</b>	76.76	<b>51.24</b>	<b>27.96</b>	<b>65.84</b>	35.94
+FC-GNN+MAGSAC $_{\downarrow}$	54.82	<b>96.98</b>	78.76	<b>60.06</b>	62.73	77.10	<b>69.71</b>	42.76	18.80	25.25	61.49	85.02	53.93	52.69	60.24	<b>95.65</b>	74.71	<b>51.86</b>	<b>28.35</b>	65.67	35.73
+GMS	53.37	81.82	67.79	17.38	50.61	78.99	57.76	33.96	4.94	13.12	50.28	72.06	56.97	47.11	64.39	84.36	57.23	12.32	5.39	47.16	24.11
+GMS+MAGSAC $_{\top}$	65.89	86.38	53.61	43.95	51.27	85.31	55.69	24.85	8.78	13.21	76.67	76.05	29.42	42.74	72.42	86.59	46.86	32.80	16.53	47.48	24.41
+GMS+MAGSAC $_{\downarrow}$	70.04	86.94	47.51	43.72	52.14	87.09	55.67	21.95	8.62	12.91	83.45	76.57	21.17	40.66	75.52	86.98	41.87	32.96	16.70	47.38	24.16
+MAGSAC $_{\top}$	56.23	92.17	74.07	44.51	59.92	70.66	60.62	49.87	16.24	24.26	69.38	84.63	43.67	52.58	59.19	88.39	72.45	38.89	19.12	61.91	32.88
+MAGSAC $_{\downarrow}$	61.91	92.95	64.99	45.92	59.79	74.80	60.51	42.62	16.26	23.86	78.55	85.17	30.71	48.30	64.40	88.99	63.53	40.04	19.87	61.13	32.43
+MOP	38.34	83.94	<b>93.61</b>	8.96	60.83	54.02	56.65	<b>74.07</b>	4.01	24.46	26.64	75.28	<b>91.72</b>	<b>59.09</b>	46.48	84.12	89.41	9.92	4.17	61.68	32.71
+MOP+MAGSAC $_{\top}$	57.18	93.60	72.89	50.96	60.89	74.24	64.17	46.86	17.01	24.42	69.50	84.36	43.06	52.00	61.42	92.39	70.71	43.95	22.68	61.64	32.75
+MOP+MAGSAC $_{\downarrow}$	62.56	94.27	64.33	51.66	60.40	77.90	64.28	40.36	16.98	24.83	78.72	84.71	30.16	48.57	66.08	92.94	62.58	44.69	22.97	61.50	32.52
+MOP+MiHo	33.27	79.44	<b>96.57</b>	3.47	61.83	40.56	50.01	85.87	1.60	25.53	24.30	73.88	<b>93.49</b>	50.86	40.04	77.67	<b>93.72</b>	4.23	2.15	63.50	37.76
+MOP+MiHo+MAGSAC $_{\top}$	56.65	93.92	74.36	49.97	61.31	72.00	64.04	50.51	17.31	25.50	69.55	<b>85.50</b>	43.96	52.23	60.41	91.78	72.39	44.14	22.68	62.65	33.36
+MOP+MiHo+MAGSAC $_{\downarrow}$	62.18	94.68	65.50	50.98	60.26	75.88	63.95	43.44	17.45	25.30	78.65	<b>86.01</b>	31.35	48.30	65.28	92.35	63.89	45.12	23.31	62.53	33.29
+MOP+MiHo+NCC	33.27	80.15	<b>98.83</b>	3.46	<b>65.05</b>	40.56	50.18	<b>87.34</b>	1.46	<b>28.19</b>	24.30	77.76	<b>103.31</b>	53.85	40.04	77.40	<b>94.30</b>	4.10	2.07	<b>66.99</b>	<b>36.92</b>
+MOP+MiHo+NCC+MAGSAC $_{\top}$	51.30	94.96	85.05	53.45	<b>63.91</b>	68.69	65.17	58.15	<b>19.37</b>	<b>27.85</b>	47.43	85.08	78.33	<b>60.25</b>	57.08	92.61	79.57	44.99	23.61	65.78	35.90
+MOP+MiHo+NCC+MAGSAC $_{\downarrow}$	54.20	95.46	80.34	<b>54.75</b>	<b>63.77</b>	71.64	65.23	52.50	<b>19.54</b>	<b>27.60</b>	55.55	<b>85.42</b>	66.94	57.47	59.71	93.07	74.90	46.03	24.26	65.46	35.99
+MOP+NCC	38.34	84.51	<b>95.58</b>	8.24	63.67	54.02	56.59	74.81	3.93	27.20	26.64	78.54	<b>99.50</b>	<b>61.16</b>	46.48	83.71	89.89	8.98	3.80	65.60	<b>36.13</b>
+MOP+NCC+MAGSAC $_{\top}$	51.89	94.45	83.19	52.52	61.98	70.95	64.92	53.70	18.68	27.16	48.10	84.24	74.70	59.23	58.21	93.07	77.51	45.53	23.98	64.66	35.24
+MOP+NCC+MAGSAC $_{\downarrow}$	54.75	94.89	78.53	53.98	62.95	73.64	65.06	48.80	<b>19.08</b>	26.44	56.51	84.74	63.01	56.45	60.63	93.47	73.23	<b>46.58</b>	<b>24.74</b>	64.39	35.03
+MS <sup>2</sup> DG-Net	66.10	78.94	54.24	0.25	46.85	64.34	52.34	<b>55.52</b>	0.24	16.46	72.55	70.11	36.57	9.14	65.93	76.79	58.20	0.63	0.34	49.05	22.63
+MS <sup>2</sup> DG-Net+MAGSAC $_{\top}$	77.25	91.45	43.00	36.60	46.70	81.94	64.02	34.44	9.30	16.20	88.95	83.71	18.20	34.90	76.63	88.14	46.25	31.70	13.70	48.61	22.48
+MS <sup>2</sup> DG-Net+MAGSAC $_{\downarrow}$	79.99	92.06	<b>38.10</b>	37.02	47.47	84.09	63.83	30.25	9.76	16.69	91.89	<b>84.14</b>	13.58	33.60	79.27	88.61	41.18	32.10	13.83	48.50	22.49
+NCC	0.00	54.90	<b>100.22</b>	0.27	<b>61.85</b>	0.00	35.09	<b>100.19</b>	0.40	24.01	0.00	61.91	<b>99.26</b>	26.73	0.00	49.27	<b>98.93</b>	0.56	0.51	<b>63.01</b>	<b>32.09</b>
+NCC+MAGSAC $_{\top}$	52.85	92.79	80.83	44.20	61.25	68.79	61.24	54.00	17.43	25.39	58.94	84.17	59.09	55.71	57.39	88.54	75.93	37.70	18.68	62.36	33.33
+NCC+MAGSAC $_{\downarrow}$	56.68	<b>93.49</b>	74.68	46.39	61.18	72.41	61.25	47.54	17.76	25.62	68.01	84.64	46.78	52.28	60.97	89.17	69.80	39.11	19.63	61.76	33.07
+NCMNet	46.21	87.41	85.76	7.08	54.16	69.70	61.60	52.19	4.17	17.72	31.96	76.36	<b>85.87</b>	51.58	53.75	88.72	<b>83.73</b>	13.10	3.98	58.80	28.82
+NCMNet+MAGSAC $_{\top}$	60.83	94.64	67.61	35.84	53.48	78.97	64.38	37.65	9.02	17.42	69.96	84.05	42.36	51.22	64.75	<b>94.31</b>	67.13	36.65	16.20	58.68	28.37
+NCMNet+MAGSAC $_{\downarrow}$	65.73	<b>95.34</b>	59.69	35.78	54.48	81.56	64.37	33.04	9.12	17.32	79.05	<b>84.62</b>	29.90	48.03	68.88	<b>94.81</b>	59.50	36.96	16.48	58.62	28.62
+OANet	68.16	89.98	56.89	17.42	49.57	81.07	59.83	35.22	6.58	14.51	81.87	75.55	28.75	21.35	72.65	90.84	55.55	20.98	7.01	52.50	23.25
+OANet+MAGSAC $_{\top}$	74.91	94.58	47.17	30.25	49.36	86.20	61.84	26.14	8.96	15.59	90.61	83.61	15.81	31.11	77.50	94.11	46.80	31.72	12.50	52.41	23.17
+OANet+MAGSAC $_{\downarrow}$	77.96	<b>95.18</b>	41.75	30.28	48.68	87.64	61.71	23.32	9.24	15.37	<b>93.06</b> </										