

Machine-Vision (M series) + Macro Ring

| 2/3" format | | FL-CC7528-2M f=75mm F2.8 | FL-CC5024A-2M f=50mm F2.4 | FL-CC5028-2M f=50mm F2.8 | FL-CC3516-2M f=35mm F1.6 | FL-CC2514A-2M f=25mm F1.4 | FL-CC2514-2M f=25mm F1.4 | FL-CC1614A-2M f=16mm F1.4 | FL-CC1614-2M f=16mm F1.4 | FL-CC1214A-2M f=12mm F1.4 | FL-CC1214-2M f=12mm F1.4 | FL-CC0814A-2M f=8mm F1.4 | FL-CC0814-2M f=8mm F1.4 | FL-CC0614A-2M f=6mm F1.4 |
|---|--|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| V: 6.6 H: 8.8 | | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | V x H (mm) W.D. | |
| Extension Tube Set (Macro Ring) EX-C6 (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm) | | maximum 960.8 x 1281.0 10652 | 643.5 x 858.0 4790 | 659.8 x 879.7 5048 | 448.1 x 597.5 2303 | 338.2 x 451.0 1312 | 330.0 x 440.1 1250 | 211.3 x 281.7 501 | 211.2 x 281.6 499 | 162.3 x 216.4 288 | 158.4 x 211.2 275 | 108.8 x 145.1 123 | 109.7 x 146.3 127 | 81.8 x 109.1 61 |
| 0.5mm | | minimum 54.9 x 73.3 663 | 8.5 x 11.3 99 | 95.8 x 127.8 777 | 66.6 x 88.8 340 | 24.2 x 32.3 93 | 55.0 x 73.3 208 | 37.7 x 50.2 80 | 71.6 x 95.5 161 | 44.5 x 59.3 69 | 57.2 x 76.2 91 | 49.4 x 65.8 49 | 48.9 x 65.2 50 | 49.2 x 65.6 30 |
| 1.0mm | | maximum 480.4 x 640.5 5355 | 321.8 x 429.0 2413 | 329.9 x 439.9 2549 | 224.1 x 298.8 1150 | 169.1 x 225.5 655 | 165.0 x 220.0 625 | 105.6 x 140.9 245 | 105.6 x 140.8 243 | 81.1 x 108.2 137 | 79.2 x 105.6 131 | 54.4 x 72.5 55 | 54.8 x 73.1 58 | 40.9 x 54.5 22 |
| 1.5mm(1+0.5) | | maximum 320.3 x 427.0 3589 | 214.5 x 286.0 1621 | 219.9 x 293.2 1716 | 149.4 x 199.2 766 | 112.7 x 150.3 436 | 110.0 x 146.7 417 | 70.4 x 93.9 160 | 70.4 x 93.9 158 | 54.1 x 72.1 87 | 52.8 x 70.4 83 | 36.3 x 48.4 32 | 36.6 x 48.8 35 | x - |
| 5mm | | maximum 96.1 x 128.1 1117 | 64.4 x 85.8 512 | 66.0 x 88.0 551 | 44.8 x 59.8 228 | 33.8 x 45.1 130 | 33.0 x 44.0 125 | 21.1 x 28.2 40 | 21.1 x 28.2 39 | 16.2 x 21.6 16 | 15.8 x 21.1 16 | x - | x - | x - |
| minimum 36.3 x 48.4 457 | | 7.6 x 10.1 93 | 93.4 x 55.4 365 | 28.5 x 38.0 144 | 14.7 x 19.6 56 | 22.0 x 29.3 83 | 14.5 x 19.3 24 | 17.7 x 23.6 30 | 12.8 x 17.1 10 | 13.5 x 17.9 12 | x - | x - | x - | x - |
| 10mm | | maximum 48.0 x 64.1 587 | 32.2 x 42.9 274 | 33.0 x 44.0 301 | 22.4 x 29.9 113 | 16.9 x 22.5 64 | 16.5 x 22.0 63 | 10.6 x 14.1 14 | 10.6 x 14.1 13 | x - | x - | x - | x - | x - |
| minimum 26.3 x 35.1 348 | | 6.8 x 9.1 87 | 25.5 x 34.0 244 | 17.4 x 23.2 87 | 10.3 x 13.7 39 | 13.2 x 17.6 50 | 8.6 x 11.4 10 | 9.6 x 12.8 11 | x - | x - | x - | x - | x - | x - |
| 15mm(10+5) | | maximum 32.0 x 42.7 411 | 21.5 x 28.6 195 | 22.0 x 29.3 217 | 14.9 x 19.5 75 | 11.3 x 15.0 42 | 11.0 x 14.7 42 | x - | x - | x - | x - | x - | x - | x - |
| minimum 20.7 x 27.6 285 | | 6.1 x 8.2 82 | 18.4 x 24.5 190 | 12.5 x 16.7 62 | 7.9 x 10.5 29 | 9.4 x 12.6 36 | x - | x - | x - | x - | x - | x - | x - | x - |
| 20mm | | maximum 24.0 x 32.0 322 | 16.1 x 21.5 155 | 16.5 x 22.0 176 | 11.2 x 14.9 55 | 8.5 x 11.3 32 | 8.3 x 11.0 31 | x - | x - | x - | x - | x - | x - | x - |
| minimum 17.0 x 22.7 245 | | 5.6 x 7.5 78 | 14.4 x 19.2 160 | 9.8 x 13.1 48 | 6.4 x 8.5 23 | 7.3 x 9.8 28 | x - | x - | x - | x - | x - | x - | x - | x - |
| 25mm(20+5) | | maximum 19.2 x 25.6 269 | 12.9 x 17.2 132 | 13.2 x 17.6 151 | 9.0 x 12.0 44 | 6.8 x 9.0 25 | 6.6 x 8.8 25 | x - | x - | x - | x - | x - | x - | x - |
| minimum 14.5 x 19.3 217 | | 5.2 x 6.9 75 | 11.8 x 15.7 140 | 8.0 x 10.7 39 | 5.4 x 7.2 20 | 6.0 x 8.0 23 | x - | x - | x - | x - | x - | x - | x - | x - |
| 30mm(20+10) | | maximum 16.0 x 21.4 234 | 10.7 x 14.3 116 | 11.0 x 14.7 134 | 7.5 x 10.0 36 | 5.6 x 7.5 21 | 5.5 x 7.3 21 | x - | x - | x - | x - | x - | x - | x - |
| minimum 12.6 x 16.7 196 | | 4.8 x 6.4 72 | 10.0 x 13.4 127 | 6.8 x 9.1 33 | 4.6 x 6.2 17 | 5.1 x 6.8 19 | x - | x - | x - | x - | x - | x - | x - | x - |
| 35mm(20+10+5) | | maximum 13.7 x 18.3 209 | 9.2 x 12.3 104 | 9.4 x 12.6 122 | 6.4 x 8.5 31 | 4.8 x 6.4 17 | 4.7 x 6.3 18 | x - | x - | x - | x - | x - | x - | x - |
| minimum 11.1 x 14.8 180 | | 4.4 x 5.9 69 | 8.7 x 11.6 117 | 5.9 x 7.9 28 | 4.1 x 5.4 15 | 4.4 x 5.9 17 | x - | x - | x - | x - | x - | x - | x - | x - |
| 40mm | | maximum 12.0 x 16.0 190 | 8.0 x 10.7 96 | 8.2 x 11.0 113 | 5.6 x 7.5 27 | 4.2 x 5.6 15 | 4.1 x 5.5 16 | x - | x - | x - | x - | x - | x - | x - |
| minimum 10.0 x 13.3 167 | | 4.2 x 5.5 67 | 7.7 x 10.2 109 | 5.2 x 7.0 25 | 3.6 x 4.9 13 | 3.9 x 5.2 15 | x - | x - | x - | x - | x - | x - | x - | x - |
| 45mm(40+5) | | maximum 10.7 x 14.2 175 | 7.2 x 9.5 89 | 7.3 x 9.8 106 | 5.0 x 6.6 23 | 3.8 x 5.0 13 | 3.7 x 4.9 14 | x - | x - | x - | x - | x - | x - | x - |
| minimum 9.0 x 12.0 151 | | 3.9 x 5.2 65 | 6.9 x 9.2 103 | 4.7 x 6.2 22 | 3.3 x 4.4 11 | 3.5 x 4.6 13 | x - | x - | x - | x - | x - | x - | x - | x - |
| 50mm(40+10) | | maximum 9.6 x 12.8 163 | 6.4 x 8.6 84 | 6.6 x 8.8 101 | 4.5 x 6.0 21 | 3.4 x 4.5 12 | 3.3 x 4.4 13 | x - | x - | x - | x - | x - | x - | x - |
| minimum 8.2 x 11.0 148 | | 3.7 x 4.9 64 | 6.2 x 8.3 98 | 4.2 x 5.7 20 | 3.0 x 4.0 10 | 3.1 x 4.2 12 | x - | x - | x - | x - | x - | x - | x - | x - |

Please note:

All values are calculation based (design figure)

W.D. : Object-L1 vertex

Machine-Vision (M series) + Macro Ring

| 1/1.8" format | | FL-CC7528-2M f=75mm F2.8 | FL-CC5024A-2M f=50mm F2.4 | FL-CC5028-2M f=50mm F2.8 | FL-CC3516-2M f=35mm F1.6 | FL-CC2514A-2M f=25mm F1.4 | FL-CC2514-2M f=25mm F1.4 | FL-CC1614A-2M f=16mm F1.4 | FL-CC1614-2M f=16mm F1.4 | FL-CC1214A-2M f=12mm F1.4 | FL-CC1214-2M f=12mm F1.4 | FL-CC0814A-2M f=8mm F1.4 | FL-CC0814-2M f=8mm F1.4 | FL-CC0614A-2M f=6mm F1.4 |
|---|----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| V: 5.4 | H: 7.2 | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) | V x H (mm) |
| Extension Tube Set (Macro Ring) EX-C6 (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm) | 0.5mm | maximum 786.1 x 1048.1 10652 | 526.5 x 702.0 4790 | 539.8 x 719.8 5048 | 366.7 x 488.9 2303 | 276.7 x 369.0 1312 | 270.0 x 360.0 1250 | 172.9 x 230.5 501 | 172.8 x 230.4 499 | 132.8 x 177.0 288 | 129.6 x 172.8 275 | 89.0 x 118.7 123 | 89.7 x 119.7 127 | 66.9 x 89.3 61 |
| | minimum 45.0 x 59.9 663 | 6.9 x 9.3 99 | 78.4 x 104.6 777 | 54.5 x 72.6 340 | 19.8 x 26.4 93 | 45.0 x 60.0 208 | 30.8 x 41.1 80 | 58.6 x 78.1 161 | 36.4 x 48.5 69 | 46.8 x 62.4 91 | 40.4 x 53.9 49 | 40.0 x 53.4 50 | 40.3 x 53.7 30 | |
| | maximum 393.0 x 524.0 5355 | 263.3 x 351.0 2413 | 269.9 x 359.9 2549 | 183.3 x 244.4 1150 | 138.4 x 184.5 655 | 135.0 x 180.0 625 | 86.4 x 115.3 245 | 86.4 x 115.2 243 | 66.4 x 88.5 137 | 64.8 x 86.4 131 | 44.5 x 59.3 55 | 44.9 x 59.8 58 | 33.5 x 44.6 22 | |
| | minimum 42.5 x 56.7 630 | 6.9 x 9.1 98 | 68.5 x 91.3 685 | 47.4 x 63.2 296 | 18.5 x 24.7 86 | 38.6 x 51.4 179 | 26.1 x 34.9 66 | 43.8 x 58.3 117 | 28.6 x 38.1 51 | 34.4 x 45.8 64 | 27.8 x 37.1 29 | 27.7 x 36.9 31 | 25.1 x 33.5 13 | |
| | maximum 262.0 x 349.4 3589 | 175.5 x 234.0 1621 | 179.9 x 239.9 1716 | 122.2 x 163.0 766 | 92.2 x 123.0 436 | 90.0 x 120.0 417 | 57.6 x 76.8 160 | 57.6 x 76.8 158 | 44.3 x 59.0 87 | 43.2 x 57.6 83 | 29.7 x 39.6 32 | 29.9 x 39.9 35 | x | - |
| | minimum 40.3 x 53.8 601 | 6.8 x 9.0 98 | 60.8 x 81.0 613 | 42.0 x 56.0 262 | 17.3 x 23.1 81 | 33.7 x 45.0 156 | 22.7 x 30.3 56 | 34.9 x 46.5 91 | 23.5 x 31.3 39 | 27.2 x 36.2 48 | 21.2 x 28.2 21 | x | - | |
| | maximum 78.6 x 104.8 1117 | 52.7 x 70.2 512 | 54.0 x 72.0 551 | 36.7 x 48.9 228 | 27.7 x 36.9 130 | 27.0 x 36.0 125 | 17.3 x 23.1 40 | 17.3 x 23.0 39 | 13.3 x 17.7 16 | 13.0 x 17.3 16 | x | - | x | - |
| | minimum 29.7 x 39.6 457 | 6.2 x 8.3 93 | 34.0 x 45.3 365 | 23.3 x 31.1 144 | 12.1 x 16.1 56 | 18.0 x 24.0 83 | 11.8 x 15.8 24 | 14.5 x 19.3 30 | 10.5 x 14.0 10 | 11.0 x 14.7 12 | x | - | x | - |
| | maximum 39.3 x 52.4 587 | 26.3 x 35.1 274 | 27.0 x 36.0 301 | 18.3 x 24.4 113 | 13.8 x 18.4 64 | 13.5 x 18.0 63 | 8.6 x 11.5 14 | 8.6 x 11.5 13 | x | - | x | - | x | - |
| | minimum 21.5 x 28.7 348 | 5.6 x 7.4 87 | 20.9 x 27.8 244 | 14.2 x 19.0 87 | 8.4 x 11.2 39 | 10.8 x 14.4 50 | 7.0 x 9.4 10 | 7.9 x 10.5 11 | x | - | x | - | x | - |
| 15mm(10+5) | maximum 26.2 x 34.9 411 | 17.6 x 23.4 195 | 19.0 x 24.0 217 | 12.2 x 16.3 75 | 9.2 x 12.3 42 | 9.0 x 12.0 42 | x | - | x | - | x | - | x | - |
| | minimum 16.9 x 22.5 285 | 5.0 x 6.7 82 | 15.0 x 20.1 190 | 10.3 x 13.7 62 | 6.4 x 8.6 29 | 7.7 x 10.3 36 | x | - | x | - | x | - | x | - |
| | maximum 19.7 x 26.2 322 | 13.2 x 17.6 155 | 13.5 x 18.0 176 | 9.2 x 12.2 55 | 6.9 x 9.2 32 | 6.8 x 9.0 31 | x | - | x | - | x | - | x | - |
| | minimum 13.9 x 18.6 245 | 4.6 x 6.1 78 | 11.8 x 15.7 160 | 8.0 x 10.7 48 | 5.2 x 7.0 23 | 6.0 x 8.0 28 | x | - | x | - | x | - | x | - |
| | maximum 15.7 x 21.0 269 | 10.5 x 14.0 132 | 10.8 x 14.4 151 | 7.3 x 9.8 44 | 5.5 x 7.4 25 | 5.4 x 7.2 25 | x | - | x | - | x | - | x | - |
| 25mm(20+5) | minimum 11.8 x 15.8 217 | 4.2 x 5.6 75 | 9.7 x 12.9 141 | 6.6 x 8.8 39 | 4.4 x 5.9 20 | 4.9 x 6.5 23 | x | - | x | - | x | - | x | - |
| | maximum 13.1 x 17.5 234 | 8.8 x 11.7 116 | 9.0 x 12.0 134 | 6.1 x 8.1 36 | 4.6 x 6.1 21 | 4.5 x 6.0 21 | x | - | x | - | x | - | x | - |
| | minimum 10.3 x 13.7 196 | 3.9 x 5.2 72 | 8.2 x 10.9 127 | 5.6 x 7.4 33 | 3.8 x 5.1 17 | 4.2 x 5.5 19 | x | - | x | - | x | - | x | - |
| | maximum 11.2 x 15.0 209 | 7.5 x 10.0 104 | 7.7 x 10.3 122 | 5.2 x 7.0 31 | 4.0 x 5.3 17 | 3.9 x 5.1 18 | x | - | x | - | x | - | x | - |
| 35mm(20+10+5) | minimum 9.1 x 12.1 180 | 3.6 x 4.8 69 | 7.1 x 9.5 117 | 4.8 x 6.5 28 | 3.3 x 4.4 15 | 3.6 x 4.8 17 | x | - | x | - | x | - | x | - |
| | maximum 9.8 x 13.1 190 | 6.6 x 8.8 96 | 6.7 x 9.0 113 | 4.6 x 6.1 27 | 3.5 x 4.6 15 | 3.4 x 4.5 16 | x | - | x | - | x | - | x | - |
| | minimum 8.1 x 10.9 167 | 3.4 x 4.5 67 | 6.3 x 8.4 109 | 4.3 x 5.7 25 | 3.0 x 4.0 13 | 3.2 x 4.2 15 | x | - | x | - | x | - | x | - |
| | maximum 8.7 x 11.6 175 | 5.9 x 7.8 89 | 6.0 x 8.0 106 | 4.1 x 5.4 23 | 3.1 x 4.1 13 | 3.0 x 4.0 14 | x | - | x | - | x | - | x | - |
| 45mm(40+5) | minimum 7.4 x 9.8 157 | 3.2 x 4.3 65 | 5.6 x 7.5 103 | 3.8 x 5.1 22 | 2.7 x 3.6 11 | 2.8 x 3.8 13 | x | - | x | - | x | - | x | - |
| | maximum 7.9 x 10.5 163 | 5.3 x 7.0 84 | 5.4 x 7.2 101 | 3.7 x 4.9 21 | 2.8 x 3.7 12 | 2.7 x 3.6 13 | x | - | x | - | x | - | x | - |
| | minimum 6.7 x 9.0 148 | 3.0 x 4.0 64 | 5.1 x 6.8 98 | 3.5 x 4.6 20 | 2.4 x 3.3 10 | 2.6 x 3.4 12 | x | - | x | - | x | - | x | - |
| 50mm(40+10) | maximum 7.9 x 10.5 163 | 5.3 x 7.0 84 | 5.4 x 7.2 101 | 3.7 x 4.9 21 | 2.8 x 3.7 12 | 2.7 x 3.6 13 | x | - | x | - | x | - | x | - |
| | minimum 6.7 x 9.0 148 | 3.0 x 4.0 64 | 5.1 x 6.8 98 | 3.5 x 4.6 20 | 2.4 x 3.3 10 | 2.6 x 3.4 12 | x | - | x | - | x | - | x | - |

Please note:

All values are calculation based (design figure)

W.D. : Object-L1 vertex

Machine-Vision (M series) + Macro Ring

| 1/2" | | format | | FL-CC7528-2M | | FL-CC5024A-2M | | FL-CC5028-2M | | FL-CC3516-2M | | FL-CC2514A-2M | | FL-CC2514-2M | | FL-CC1614A-2M | | FL-CC1614-2M | | FL-CC1214A-2M | | FL-CC1214-2M | | FL-CC0814A-2M | | FL-CC0814-2M | | FL-CC0614A-2M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------------------|-------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|----------------|----------------------------|--------------------|--------------------|--------------------|-------------------|-------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|----------------|----------------------------|--------------------|--------------------|-------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----|-------------------------|--------------|-----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-------------------------|--------------|-----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----|-----|-----|-------------------------|--------------|-----------------|-----------------|----------------|----------------|----------------|----------------|---------------|---------------|-----|-----|-----|-------------------------|-----------------|-----------------|-----------------|----------------|----------------|---------------|---------------|-----|-----|-----|-----|-----|-------------------------|--------------|-----------------|----------------|---------------|---------------|--------------|--------------|-----|-----|-----|-----|-----|-------------------------|-----------------|-----------------|----------------|---------------|---------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|--------------|-----------------|---------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----------------|-----------------|---------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|--------------|-----------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|----------------|----------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|--------------|----------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|----------------|----------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|------------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|---------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|------------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|------------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|------------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|--------------|---------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|
| | | Position of Focus Ring | f=75mm F2.8 | f=50mm F2.4 | f=50mm F2.8 | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension Tube Set (Macro Ring) EX-C6 (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm) | | V: 4.8 | H: 6.4 | maximum 698.7 x 931.6 10652 | 468.0 x 624.0 4790 | 479.8 x 639.8 5048 | 325.9 x 434.6 2303 | 246.0 x 328.0 1312 | 240.0 x 320.0 1250 | 153.7 x 204.9 501 | 153.6 x 204.8 499 | 118.0 x 157.4 288 | 115.2 x 153.6 275 | 79.1 x 105.5 123 | 79.8 x 106.4 127 | 59.5 x 79.3 61 | maximum 349.4 x 465.8 5355 | 234.0 x 312.0 2413 | 239.9 x 319.9 2549 | 163.0 x 217.3 1150 | 123.0 x 164.0 655 | 120.0 x 160.0 625 | 76.8 x 102.4 245 | 76.8 x 102.4 243 | 59.0 x 78.7 137 | 57.6 x 76.8 131 | 39.6 x 52.7 55 | 39.9 x 53.2 58 | 29.8 x 39.7 22 | maximum 232.9 x 310.5 3589 | 156.0 x 208.0 1621 | 159.9 x 213.3 1716 | 108.6 x 144.9 766 | 82.0 x 109.3 436 | 80.0 x 106.7 417 | 51.2 x 68.3 160 | 51.2 x 68.3 158 | 39.3 x 52.5 87 | 38.4 x 51.2 83 | 26.4 x 35.2 32 | 26.6 x 35.5 35 | x - | minimum 37.8 x 50.4 630 | 6.1 x 8.1 98 | 60.9 x 81.1 685 | 42.2 x 56.2 296 | 16.4 x 21.9 86 | 34.3 x 45.7 179 | 23.2 x 31.0 66 | 38.9 x 51.9 117 | 25.4 x 33.8 51 | 30.6 x 40.7 64 | 24.7 x 32.9 29 | 24.6 x 32.8 31 | 22.4 x 29.8 13 | minimum 35.9 x 47.8 601 | 6.0 x 8.0 98 | 54.0 x 72.0 613 | 37.3 x 49.8 262 | 15.4 x 20.5 81 | 30.0 x 40.0 156 | 20.2 x 26.9 56 | 31.0 x 41.4 91 | 20.9 x 27.9 39 | 24.1 x 32.2 48 | 18.8 x 25.1 19 | 18.8 x 25.1 21 | x - | minimum 69.9 x 93.2 1117 | 46.8 x 62.4 512 | 48.0 x 64.0 551 | 32.6 x 43.5 228 | 24.6 x 32.8 130 | 24.0 x 32.0 125 | 15.4 x 20.5 40 | 15.4 x 20.5 39 | 11.8 x 15.7 16 | 11.5 x 15.4 16 | x - | x - | x - | minimum 26.4 x 35.2 457 | 5.5 x 7.4 93 | 30.2 x 40.3 365 | 20.7 x 27.6 144 | 10.7 x 14.3 56 | 16.0 x 21.3 83 | 10.5 x 14.0 24 | 12.9 x 17.1 30 | 9.3 x 12.4 10 | 9.8 x 13.0 12 | x - | x - | x - | maximum 34.9 x 46.6 587 | 23.4 x 31.2 274 | 24.0 x 32.0 301 | 16.3 x 21.7 113 | 12.3 x 16.4 64 | 12.0 x 16.0 63 | 7.7 x 10.2 14 | 7.7 x 10.2 13 | x - | x - | x - | x - | x - | minimum 19.2 x 25.5 348 | 4.9 x 6.6 87 | 18.5 x 24.7 244 | 12.7 x 16.9 87 | 7.5 x 10.0 39 | 9.6 x 12.8 50 | 6.2 x 8.3 10 | 7.0 x 9.3 11 | x - | x - | x - | x - | x - | maximum 23.3 x 31.1 411 | 15.6 x 20.8 195 | 16.0 x 21.3 217 | 10.9 x 14.5 75 | 8.2 x 10.9 42 | 8.0 x 10.7 42 | x - | x - | x - | x - | x - | x - | x - | minimum 15.0 x 20.0 285 | 4.5 x 6.0 82 | 13.4 x 17.8 190 | 9.1 x 12.2 62 | 5.7 x 7.6 29 | 6.9 x 9.1 36 | x - | x - | x - | x - | x - | x - | x - | maximum 17.5 x 23.3 322 | 11.7 x 15.6 155 | 12.0 x 16.0 176 | 8.1 x 10.9 55 | 6.1 x 8.2 32 | 6.0 x 8.0 31 | x - | x - | x - | x - | x - | x - | x - | minimum 12.4 x 16.5 245 | 4.1 x 5.4 78 | 10.5 x 13.9 161 | 7.1 x 9.5 48 | 4.6 x 6.2 23 | 5.3 x 7.1 28 | x - | x - | x - | x - | x - | x - | x - | maximum 14.0 x 18.6 269 | 9.4 x 12.5 132 | 9.6 x 12.8 151 | 6.5 x 8.7 44 | 4.9 x 6.6 25 | 4.8 x 6.4 25 | x - | x - | x - | x - | x - | x - | x - | minimum 10.5 x 14.0 217 | 3.8 x 5.0 75 | 8.6 x 11.4 141 | 5.8 x 7.8 39 | 3.9 x 5.2 20 | 4.4 x 5.8 23 | x - | x - | x - | x - | x - | x - | x - | maximum 11.6 x 15.5 234 | 7.8 x 10.4 116 | 8.0 x 10.7 134 | 5.4 x 7.2 36 | 4.1 x 5.5 21 | 4.0 x 5.3 21 | x - | x - | x - | x - | x - | x - | x - | minimum 9.1 x 12.2 196 | 3.5 x 4.6 72 | 7.3 x 9.7 127 | 5.0 x 6.6 33 | 3.4 x 4.5 17 | 3.7 x 4.9 19 | x - | x - | x - | x - | x - | x - | x - | maximum 10.0 x 13.3 209 | 6.7 x 8.9 104 | 6.9 x 9.1 122 | 4.7 x 6.2 31 | 3.5 x 4.7 17 | 3.4 x 4.6 18 | x - | x - | x - | x - | x - | x - | x - | minimum 8.1 x 10.8 180 | 3.2 x 4.3 69 | 6.3 x 8.4 117 | 4.3 x 5.7 28 | 3.0 x 4.0 15 | 3.2 x 4.3 17 | x - | x - | x - | x - | x - | x - | x - | maximum 8.7 x 11.6 190 | 5.9 x 7.8 96 | 6.0 x 8.0 113 | 4.1 x 5.4 27 | 3.1 x 4.1 15 | 3.0 x 4.0 16 | x - | x - | x - | x - | x - | x - | x - | minimum 7.2 x 9.7 167 | 3.0 x 4.0 67 | 5.6 x 7.4 109 | 3.8 x 5.1 25 | 2.6 x 3.5 13 | 2.8 x 3.8 15 | x - | x - | x - | x - | x - | x - | x - | maximum 7.8 x 10.4 175 | 5.2 x 6.9 89 | 5.3 x 7.1 106 | 3.6 x 4.8 23 | 2.7 x 3.6 13 | 2.7 x 3.6 14 | x - | x - | x - | x - | x - | x - | x - | minimum 6.6 x 8.7 157 | 2.8 x 3.8 65 | 5.0 x 6.7 103 | 3.4 x 4.5 22 | 2.4 x 3.2 11 | 2.5 x 3.4 13 | x - | x - | x - | x - | x - | x - | x - | maximum 7.0 x 9.3 163 | 4.7 x 6.2 84 | 4.8 x 6.4 101 | 3.3 x 4.3 21 | 2.5 x 3.3 12 | 2.4 x 3.2 13 | x - | x - | x - | x - | x - | x - | x - | minimum 6.0 x 8.0 148 | 2.7 x 3.6 64 | 4.5 x 6.0 98 | 3.1 x 4.1 20 | 2.2 x 2.9 10 | 2.3 x 3.0 12 | x - | x - | x - | x - | x - | x - | x - |

Please note:

All values are calculation based (design figure)

W.D. : Object~L1 vertex

Machine-Vision (M series) + Macro Ring

| 2/3" format V: 6.6 H: 8.8 | Position of Focus Ring | FL-CC5028A-5M02 f=75mm F2.8 | | FL-CC5028A-5M035 f=50mm F2.4 | | FL-CC2514-5M f=50mm F2.8 | | FL-CC1614-5M f=35mm F1.6 | | FL-CC0814-5M f=25mm F1.4 | | |
|---|------------------------|--------------------------------|-------------|---------------------------------|-------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----|
| | | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | |
| | | maximum | 41.3 x 55.1 | 343 | 22.8 x 30.4 | 199 | 330.0 x 440.0 | 1237 | 211.1 x 281.4 | 498 | 108.8 x 145.0 | 116 |
| Extension Tube Set (Macro Ring) EX-C6 (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm) | 0.5mm | maximum | 25.4 x 33.9 | 220 | 16.1 x 21.5 | 147 | 27.3 x 36.4 | 91 | 38.3 x 51.1 | 79 | 50.9 x 67.9 | 44 |
| | 1.0mm | maximum | 38.9 x 51.9 | 325 | 22.0 x 29.4 | 193 | 165.0 x 220.0 | 612 | 105.5 x 140.7 | 242 | 54.4 x 72.5 | 48 |
| 1.5mm(1+0.5) | maximum | 24.5 x 32.7 | 212 | 15.7 x 21.0 | 144 | 25.2 x 33.6 | 83 | 32.4 x 43.2 | 65 | 34.7 x 46.2 | 24 | |
| | minimum | 36.8 x 49.1 | 308 | 21.3 x 28.4 | 187 | 110.0 x 146.7 | 404 | 70.4 x 93.8 | 157 | 36.3 x 48.3 | 26 | |
| 5mm | maximum | 23.6 x 31.5 | 206 | 15.4 x 20.5 | 141 | 23.4 x 31.2 | 76 | 28.1 x 37.5 | 55 | 26.3 x 35.1 | 13 | |
| | minimum | 26.7 x 35.6 | 229 | 17.5 x 23.3 | 158 | 33.0 x 44.0 | 112 | 21.1 x 28.1 | 38 | x | - | |
| 10mm | maximum | 19.0 x 25.3 | 170 | 13.3 x 17.7 | 125 | 15.7 x 20.9 | 46 | 14.5 x 19.4 | 22 | x | - | |
| | minimum | 19.1 x 25.5 | 171 | 13.9 x 18.5 | 130 | 16.5 x 22.0 | 50 | 10.6 x 14.1 | 12 | x | - | |
| 15mm(10+5) | maximum | 14.8 x 19.8 | 137 | 11.1 x 14.8 | 108 | 10.6 x 14.2 | 27 | 8.6 x 11.5 | 8 | x | - | |
| | minimum | 14.9 x 19.9 | 138 | 11.5 x 15.3 | 111 | 11.0 x 14.7 | 29 | x | - | x | - | |
| 20mm | maximum | 12.2 x 16.2 | 117 | 9.5 x 12.7 | 96 | 8.0 x 10.7 | 18 | x | - | x | - | |
| | minimum | 10.3 x 13.8 | 102 | 8.3 x 11.1 | 87 | 6.5 x 8.6 | 12 | x | - | x | - | |
| 25mm(20+5) | maximum | 12.2 x 16.3 | 117 | 9.8 x 13.1 | 98 | 8.3 x 11.0 | 18 | x | - | x | - | |
| | minimum | 10.4 x 13.8 | 102 | 8.6 x 11.4 | 89 | 6.6 x 8.8 | 12 | x | - | x | - | |
| 30mm(20+10) | maximum | 9.0 x 11.9 | 91 | 7.4 x 9.9 | 80 | 5.4 x 7.2 | 8 | x | - | x | - | |
| | minimum | 9.0 x 12.0 | 92 | 7.6 x 10.2 | 81 | x | - | x | - | x | - | |
| 35mm(20+10+5) | maximum | 7.9 x 10.6 | 83 | 6.7 x 8.9 | 74 | x | - | x | - | x | - | |
| | minimum | 7.1 x 9.4 | 77 | 6.1 x 8.1 | 69 | x | - | x | - | x | - | |
| 40mm | maximum | 7.1 x 9.5 | 77 | 6.2 x 8.3 | 70 | x | - | x | - | x | - | |
| | minimum | 6.4 x 8.6 | 72 | 5.6 x 7.4 | 65 | x | - | x | - | x | - | |
| 45mm(40+5) | maximum | 6.4 x 8.6 | 72 | 5.7 x 7.6 | 66 | x | - | x | - | x | - | |
| | minimum | 5.9 x 7.8 | 67 | 5.2 x 6.9 | 62 | x | - | x | - | x | - | |
| 50mm(40+10) | maximum | 5.9 x 7.8 | 67 | 5.2 x 7.0 | 63 | x | - | x | - | x | - | |
| | minimum | 5.4 x 7.2 | 64 | 4.8 x 6.4 | 59 | x | - | x | - | x | - | |

Please note:

All values are calculation based (design figure)

W.D. : Object~L1 vertex

Machine-Vision (M series) + Macro Ring

| 1/1.8" format V: 5.4 H: 7.2 | | Position of Focus Ring | FL-CC5028A-5M02 f=75mm F2.8 | | FL-CC5028A-5M035 f=50mm F2.4 | | FL-CC2514-5M f=50mm F2.8 | | FL-CC1614-5M f=35mm F1.6 | | FL-CC0814-5M f=25mm F1.4 | |
|---|---------------|------------------------|--------------------------------|------|---------------------------------|------|-----------------------------|------|-----------------------------|------|-----------------------------|------|
| V x H (mm) | W.D. | | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. |
| Extension Tube Set (Macro Ring) EX-C6 (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm) | 0.5mm | maximum | 33.8 x 45.1 | 343 | 18.6 x 24.8 | 199 | 270.0 x 360.0 | 1237 | 172.7 x 230.2 | 498 | 89.0 x 118.6 | 116 |
| | | minimum | 20.8 x 27.7 | 220 | 13.2 x 17.6 | 147 | 22.3 x 29.8 | 91 | 31.3 x 41.8 | 79 | 41.7 x 55.5 | 44 |
| | 1.0mm | maximum | 31.9 x 42.5 | 325 | 18.0 x 24.0 | 193 | 135.0 x 180.0 | 612 | 86.3 x 115.1 | 242 | 44.5 x 59.3 | 48 |
| | | minimum | 20.0 x 26.7 | 212 | 12.9 x 17.2 | 144 | 20.6 x 27.5 | 83 | 26.5 x 35.4 | 65 | 28.4 x 37.8 | 24 |
| | 1.5mm(1+0.5) | maximum | 30.1 x 40.2 | 308 | 17.5 x 23.3 | 187 | 90.0 x 120.0 | 404 | 57.6 x 76.7 | 157 | 29.7 x 39.5 | 26 |
| | | minimum | 19.3 x 25.8 | 206 | 12.6 x 16.8 | 141 | 19.2 x 25.6 | 76 | 23.0 x 30.7 | 55 | 21.5 x 28.7 | 13 |
| | 5mm | maximum | 21.8 x 29.1 | 229 | 14.3 x 19.1 | 158 | 27.0 x 36.0 | 112 | 17.3 x 23.0 | 38 | x | - |
| | | minimum | 15.5 x 20.7 | 170 | 10.8 x 14.5 | 125 | 12.8 x 17.1 | 46 | 11.9 x 15.9 | 22 | x | - |
| | 10mm | maximum | 15.7 x 20.9 | 171 | 11.4 x 15.1 | 130 | 13.5 x 18.0 | 50 | 8.6 x 11.5 | 12 | x | - |
| | | minimum | 12.1 x 16.2 | 137 | 9.1 x 12.1 | 108 | 8.7 x 11.6 | 27 | 7.0 x 9.4 | 8 | x | - |
| | 15mm(10+5) | maximum | 12.2 x 16.3 | 138 | 9.4 x 12.6 | 111 | 9.0 x 12.0 | 29 | x | - | x | - |
| | | minimum | 10.0 x 13.3 | 117 | 7.8 x 10.4 | 96 | 6.6 x 8.8 | 18 | x | - | x | - |
| | 20mm | maximum | 10.0 x 13.4 | 117 | 8.0 x 10.7 | 98 | 6.8 x 9.0 | 18 | x | - | x | - |
| | | minimum | 8.4 x 11.3 | 102 | 6.8 x 9.1 | 87 | 5.3 x 7.0 | 12 | x | - | x | - |
| | 25mm(20+5) | maximum | 8.5 x 11.3 | 102 | 7.0 x 9.4 | 89 | 5.4 x 7.2 | 12 | x | - | x | - |
| | | minimum | 7.3 x 9.8 | 91 | 6.1 x 8.1 | 80 | 4.4 x 5.9 | 8 | x | - | x | - |
| | 30mm(20+10) | maximum | 7.4 x 9.8 | 92 | 6.2 x 8.3 | 81 | x | - | x | - | x | - |
| | | minimum | 6.5 x 8.6 | 83 | 5.5 x 7.3 | 74 | x | - | x | - | x | - |
| | 35mm(20+10+5) | maximum | 6.5 x 8.7 | 84 | 5.6 x 7.5 | 75 | x | - | x | - | x | - |
| | | minimum | 5.8 x 7.7 | 77 | 5.0 x 6.6 | 69 | x | - | x | - | x | - |
| | 40mm | maximum | 5.8 x 7.8 | 77 | 5.1 x 6.8 | 70 | x | - | x | - | x | - |
| | | minimum | 5.2 x 7.0 | 72 | 4.6 x 6.1 | 65 | x | - | x | - | x | - |
| | 45mm(40+5) | maximum | 5.3 x 7.0 | 72 | 4.7 x 6.2 | 66 | x | - | x | - | x | - |
| | | minimum | 4.8 x 6.4 | 67 | 4.2 x 5.6 | 62 | x | - | x | - | x | - |
| | 50mm(40+10) | maximum | 4.8 x 6.4 | 67 | 4.3 x 5.7 | 63 | x | - | x | - | x | - |
| | | minimum | 4.4 x 5.9 | 64 | 3.9 x 5.2 | 59 | x | - | x | - | x | - |

Please note:

All values are calculation based (design figure)

W.D. : Object~L1 vertex

Machine-Vision (M series) + Macro Ring

| 1/2" format V: 4.8 H: 6.4 | Position of Focus Ring | FL-CC5028A-5M02 f=75mm F2.8 | | FL-CC5028A-5M035 f=50mm F2.4 | | FL-CC2514-5M f=50mm F2.8 | | FL-CC1614-5M f=35mm F1.6 | | FL-CC0814-5M f=25mm F1.4 | | |
|---|---------------------------|--------------------------------|-------------|---------------------------------|-------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|--------------|-----|
| | | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | V x H (mm) | W.D. | |
| | | maximum | 30.0 x 40.1 | 343 | 16.6 x 22.1 | 199 | 240.0 x 320.0 | 1237 | 153.5 x 204.7 | 498 | 79.1 x 105.5 | 116 |
| Extension Tube Set (Macro Ring) EX-C6 (0.5mm, 1mm, 5mm, 10mm, 20mm and 40mm) | 0.5mm | maximum | 30.0 x 40.1 | 343 | 16.6 x 22.1 | 199 | 240.0 x 320.0 | 1237 | 153.5 x 204.7 | 498 | 79.1 x 105.5 | 116 |
| | 0.5mm | minimum | 18.5 x 24.6 | 220 | 11.7 x 15.6 | 147 | 19.9 x 26.5 | 91 | 27.9 x 37.1 | 79 | 37.0 x 49.4 | 44 |
| 1.0mm | 1.0mm | maximum | 28.3 x 37.8 | 325 | 16.0 x 21.4 | 193 | 120.0 x 160.0 | 612 | 76.7 x 102.3 | 242 | 39.5 x 52.7 | 48 |
| | 1.0mm | minimum | 17.8 x 23.7 | 212 | 11.4 x 15.3 | 144 | 18.3 x 24.5 | 83 | 23.6 x 31.4 | 65 | 25.2 x 33.6 | 24 |
| 1.5mm(1+0.5) | 1.5mm(1+0.5) | maximum | 26.8 x 35.7 | 308 | 15.5 x 20.7 | 187 | 80.0 x 106.7 | 404 | 51.2 x 68.2 | 157 | 26.4 x 35.2 | 26 |
| | 1.5mm(1+0.5) | minimum | 17.2 x 22.9 | 206 | 11.2 x 14.9 | 141 | 17.0 x 22.7 | 76 | 20.4 x 27.2 | 55 | 19.1 x 25.5 | 13 |
| 5mm | 5mm | maximum | 19.4 x 25.9 | 229 | 12.7 x 16.9 | 158 | 24.0 x 32.0 | 112 | 15.3 x 20.5 | 38 | x | - |
| | 5mm | minimum | 13.8 x 18.4 | 170 | 9.6 x 12.9 | 125 | 11.4 x 15.2 | 46 | 10.6 x 14.1 | 22 | x | - |
| 10mm | 10mm | maximum | 13.9 x 18.6 | 171 | 10.1 x 13.5 | 130 | 12.0 x 16.0 | 50 | 7.7 x 10.2 | 12 | x | - |
| | 10mm | minimum | 10.8 x 14.4 | 137 | 8.1 x 10.7 | 108 | 7.7 x 10.3 | 27 | 6.3 x 8.3 | 8 | x | - |
| 15mm(10+5) | 15mm(10+5) | maximum | 10.9 x 14.5 | 138 | 8.4 x 11.2 | 111 | 8.0 x 10.7 | 29 | x | - | x | - |
| | 15mm(10+5) | minimum | 8.9 x 11.8 | 117 | 6.9 x 9.2 | 96 | 5.8 x 7.8 | 18 | x | - | x | - |
| 20mm | 20mm | maximum | 8.9 x 11.9 | 117 | 7.2 x 9.5 | 98 | 6.0 x 8.0 | 18 | x | - | x | - |
| | 20mm | minimum | 7.5 x 10.0 | 102 | 6.1 x 8.1 | 87 | 4.7 x 6.3 | 12 | x | - | x | - |
| 25mm(20+5) | 25mm(20+5) | maximum | 7.5 x 10.1 | 102 | 6.2 x 8.3 | 89 | 4.8 x 6.4 | 12 | x | - | x | - |
| | 25mm(20+5) | minimum | 6.5 x 8.7 | 91 | 5.4 x 7.2 | 80 | 3.9 x 5.2 | 8 | x | - | x | - |
| 30mm(20+10) | 30mm(20+10) | maximum | 6.5 x 8.7 | 92 | 5.5 x 7.4 | 81 | x | - | x | - | x | - |
| | 30mm(20+10) | minimum | 5.8 x 7.7 | 83 | 4.9 x 6.5 | 74 | x | - | x | - | x | - |
| 35mm(20+10+5) | 35mm(20+10+5) | maximum | 5.8 x 7.7 | 84 | 5.0 x 6.6 | 75 | x | - | x | - | x | - |
| | 35mm(20+10+5) | minimum | 5.2 x 6.9 | 77 | 4.4 x 5.9 | 69 | x | - | x | - | x | - |
| 40mm | 40mm | maximum | 5.2 x 6.9 | 77 | 4.5 x 6.0 | 70 | x | - | x | - | x | - |
| | 40mm | minimum | 4.7 x 6.2 | 72 | 4.1 x 5.4 | 65 | x | - | x | - | x | - |
| 45mm(40+5) | 45mm(40+5) | maximum | 4.7 x 6.2 | 72 | 4.1 x 5.5 | 66 | x | - | x | - | x | - |
| | 45mm(40+5) | minimum | 4.3 x 5.7 | 67 | 3.7 x 5.0 | 62 | x | - | x | - | x | - |
| 50mm(40+10) | 50mm(40+10) | maximum | 4.3 x 5.7 | 67 | 3.8 x 5.1 | 63 | x | - | x | - | x | - |
| | 50mm(40+10) | minimum | 3.9 x 5.2 | 64 | 3.5 x 4.6 | 59 | x | - | x | - | x | - |

Please note:

All values are calculation based (design figure)

W.D. : Object~L1 vertex