

ML-M-HR FOV chart

Extender (mm)	Model	ML-M0818HR		ML-M1218HR		ML-M1618HR		ML-M2518HR		ML-M3520HR		ML-M5025HR	
		f8mm		f12mm		f16mm		f25mm		f35mm		f50mm	
		Near	Far (∞)	Near	Far (∞)	Near	Far (∞)	Near	Far (∞)	Near	Far (∞)	Near	Far (∞)
0	2/3"	94.0 X 127.0		88.1 X 117.5		86.4 X 115.3		53.1 X 70.8		43.3 X 57.8		33.9 X 45.2	
	1/1.8"	75.2 X 101.2		71.0 X 94.7		69.6 X 92.8		42.8 X 57.0		34.9 X 46.5		27.3 X 36.4	
	WD	100		150		200		200		250		300	
	Magnification	0.072x		0.075x		0.076x		0.124x		0.152x		0.195x	
0.5	2/3"	49.8 X 67.2	110.0 X 148.7	56.0 X 74.7	156.8 X 209.1	61.1 X 81.4	211.6 X 282.1	45.8 X 61.0	325.4 X 433.9	39.6 X 52.8	459.0 X 612.0	32.3 X 43.0	651.0 X 867.9
	1/1.8"	39.8 X 53.6	88.1 X 118.5	45.1 X 60.2	126.3 X 168.4	49.2 X 65.6	170.4 X 227.2	36.9 X 49.2	262.1 X 349.5	31.9 X 42.5	369.7 X 492.9	26.0 X 34.6	524.3 X 699.1
	WD	47.3	119.1	91.5	274.9	138.5	503.2	172.2	1231.6	230	2454.2	287.3	4974.1
	Magnification	0.135x	0.061x	0.118x	0.042x	0.108x	0.031x	0.144x	0.020x	0.167x	0.014x	0.205x	0.010x
1	2/3"	34.1 X 46.1	54.6 X 73.7	41.3 X 55.0	78.7 X 104.9	47.4 X 63.2	105.6 X 140.8	40.2 X 53.6	162.7 X 217.0	36.4 X 48.6	228.8 X 305.1	30.7 X 41.0	326.7 X 435.6
	1/1.8"	27.3 X 36.7	43.7 X 58.8	33.3 X 44.3	63.4 X 84.5	38.2 X 50.9	85.1 X 113.4	32.4 X 43.2	131.1 X 174.8	29.3 X 39.1	184.3 X 245.7	24.8 X 33.0	263.1 X 350.8
	WD	28.6	53	64.7	132.8	105.4	246.4	151.1	615.3	213.4	1233.4	275.8	2517.6
	Magnification	0.197x	0.123x	0.160x	0.084x	0.139x	0.062x	0.164x	0.041x	0.181x	0.029x	0.215x	0.020x
1.5	2/3"	25.8 X 34.9	36.4 X 49.1	32.7 X 43.7	52.4 X 69.9	38.7 X 51.6	70.2 X 93.6	35.8 X 47.8	108.5 X 144.6	33.8 X 45.0	152.4 X 203.2	29.4 X 39.2	218.0 X 290.7
	1/1.8"	20.7 X 27.8	29.1 X 39.2	26.4 X 35.2	42.2 X 56.3	31.2 X 41.5	56.5 X 75.4	28.9 X 38.5	87.4 X 116.5	27.2 X 36.3	122.8 X 163.7	23.7 X 31.5	175.6 X 234.1
	WD	18.7	31.3	49.2	85	84.3	160.6	134.5	409.7	199.3	828.4	265.4	1694.4
	Magnification	0.260x	0.185x	0.202x	0.126x	0.171x	0.094x	0.184x	0.061x	0.195x	0.043x	0.225x	0.030x
2	2/3"	20.7 X 27.9	27.1 X 36.7	27.1 X 36.2	39.3 X 52.4	32.5 X 43.4	52.7 X 70.2	32.3 X 43.1	81.4 X 108.5	31.5 X 41.9	114.3 X 152.4	28.1 X 37.5	163.6 X 218.1
	1/1.8"	16.5 X 22.2	21.7 X 29.2	21.8 X 29.1	31.7 X 42.2	26.2 X 35.0	42.4 X 56.6	26.0 X 34.7	65.5 X 87.4	25.3 X 33.8	92.0 X 122.7	22.6 X 30.2	131.7 X 175.7
	WD	12.5	20.3	38.9	61.1	69.4	118.2	121.2	307.1	187	626.2	255.9	1282
	Magnification	0.326x	0.248x	0.243x	0.168x	0.203x	0.125x	0.204x	0.081x	0.210x	0.058x	0.235x	0.040x
5	2/3"			13.3 X 17.7	15.7 X 20.9	16.8 X 22.5	21.2 X 28.3	20.4 X 27.1	32.8 X 43.7	22.3 X 29.7	45.7 X 61.0	22.4 X 29.8	65.5 X 87.3
	1/1.8"			10.7 X 14.3	12.6 X 16.9	13.6 X 18.1	17.1 X 22.8	16.4 X 21.9	26.4 X 35.2	18.0 X 23.9	36.8 X 49.1	18.0 X 24.0	52.7 X 70.3
	WD			13.8	18.2	31.3	41.9	75.9	123	138.4	262.8	212.4	538.8
	Magnification			0.496x	0.421x	0.392x	0.311x	0.324x	0.201x	0.296x	0.144x	0.295x	0.101x
10	2/3"					9.4 X 12.5	10.5 X 14.0	12.6 X 16.8	16.4 X 21.9	15.0 X 20.0	22.9 X 30.6	16.7 X 22.3	32.7 X 43.6
	1/1.8"					7.6 X 10.1	8.5 X 11.3	10.1 X 13.5	13.2 X 17.7	12.1 X 16.1	18.5 X 24.6	13.5 X 17.9	26.4 X 35.1
	WD					13.2	16	46.5	61.1	99.8	141.8	290.9	290.9
	Magnification					0.704x	0.628x	0.524x	0.402x	0.440x	0.288x	0.395x	0.202x
15	2/3"					6.5 X 8.7	7.0 X 9.4	9.1 X 12.2	11.0 X 14.6	11.3 X 15.1	15.3 X 20.4	13.3 X 17.8	21.8 X 29.1
	1/1.8"					5.3 X 7.0	5.7 X 7.6	7.3 X 9.8	8.8 X 11.8	9.1 X 12.1	12.3 X 16.4	10.7 X 14.3	17.6 X 23.5
	WD					6.3	7.6	33.4	40.4	80.2	101.3	144	208.4
	Magnification					1.012x	0.937x	0.724x	0.601x	0.583x	0.432x	0.495x	0.302x
20	2/3"							7.1 X 9.5	8.2 X 11.0	9.1 X 12.1	11.5 X 15.3	11.1 X 14.8	16.4 X 21.9
	1/1.8"							5.8 X 7.7	6.6 X 8.8	7.3 X 9.8	9.2 X 12.3	8.9 X 11.9	13.2 X 17.6
	WD							25.9	30	68.4	81.1	127	167.2
	Magnification							0.924x	0.801x	0.727x	0.575x	0.595x	0.402x
25	2/3"							5.9 X 7.8	6.6 X 8.8	7.6 X 10.1	9.2 X 12.2	9.5 X 12.7	13.1 X 17.5
	1/1.8"							4.7 X 6.3	5.3 X 7.1	6.1 X 8.1	7.4 X 9.9	7.6 X 10.2	10.6 X 14.1
	WD							21.1	23.8	60.5	68.9	114.9	142.5
	Magnification							1.123x	1.000x	0.870x	0.719x	0.695x	0.502x
30	2/3"							5.0 X 6.7	5.5 X 7.3	6.5 X 8.7	7.7 X 10.2	8.3 X 11.1	11.0 X 14.6
	1/1.8"							4.0 X 5.4	4.4 X 5.9	5.2 X 7.0	6.2 X 8.2	6.7 X 8.9	8.8 X 11.8
	WD							17.7	19.7	54.8	60.8	105.8	126
	Magnification							1.322x	1.200x	1.013x	0.862x	0.795x	0.602x
35	2/3"							4.3 X 5.8	4.7 X 6.3	5.7 X 7.6	6.6 X 8.8	7.4 X 9.9	9.4 X 12.5
	1/1.8"							3.5 X 4.7	3.8 X 5.1	4.6 X 6.1	5.3 X 7.1	6.0 X 8.0	7.6 X 10.1
	WD							15.3	16.7	50.5	55.1	99.2	114.1
	Magnification							1.522x	1.399x	1.156x	1.005x	0.889x	0.702x
40	2/3"							3.8 X 5.1	4.1 X 5.5	5.1 X 6.8	5.8 X 7.7	6.6 X 8.8	7.9 X 10.5
	1/1.8"							3.1 X 4.1	3.3 X 4.4	4.1 X 5.5	4.6 X 6.2	5.3 X 7.1	6.4 X 8.5
	WD							13.3	14.5	47.2	50.7	93.2	102.8
	Magnification							1.723x	1.599x	1.299x	1.148x	0.995x	0.835x
45	2/3"							3.4 X 4.6	3.7 X 4.9	4.6 X 6.1	5.1 X 6.8	6.0 X 8.0	7.6 X 10.2
	1/1.8"							2.8 X 3.7	3.0 X 3.9	3.7 X 4.9	4.1 X 5.5	4.9 X 6.5	6.1 X 8.2
	WD							11.8	12.7	44.5	47.3	88.6	100.8
	Magnification							1.922x	1.800x	1.442x	1.291x	1.095x	0.865x
50	2/3"							3.1 X 4.1	3.3 X 4.4	4.2 X 5.5	4.6 X 6.1	5.3 X 7.1	6.6 X 8.8
	1/1.8"							2.5 X 3.3	2.7 X 3.5	3.4 X 4.5	3.7 X 4.9	4.3 X 5.7	5.3 X 7.1
	WD							10.6	11.3	42.3	44.6	83.2	92.8
	Magnification							2.122x	1.999x	1.586x	1.434x	1.242x	1.003x

Image quality could not meet optical specification. Please be careful.

※Indicated values are based on calculation and actual measurements may differ. Please use values as a reference.

※Accuracy of the products is guaranteed only when used without additional attachments. Please note that when using in combination with a close-up ring or other equipment, working distance, distortion and image quality may be distorted due to enlargement of the lens tolerance.