

# Varifocal Lens for Large Image Format

## ML-0310VF

Varifocal lens with optimized magnification and working distance for FA. The key features of this lens are the support of large, up to 1.2" camera and the varifocal, variable magnification for wide field of views. This lens is great for high speed and high resolution image recognition.

- Supports camera format of up to 1.2" (15.15mm × 15.15mm)
- Varifocal magnification variation of 0.3×~1×
- Equipped with variable iris
- Equipped with screws to lock movable parts for FA
- Wide wavelength transmission

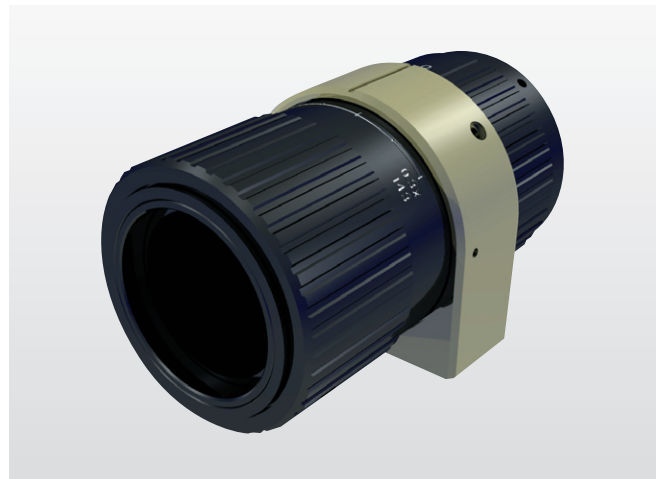


Chart for Field of View According to Camera Element Size and WD

Magnification	0310VF	VF03	1/3" (3.6x4.8)	1/2" (4.8x6.4)	2/3" (6.6x8.8)	1.1" (12x12.3)	1.2" (15.15x15.15)
0.1x	-	414.5mm	36x48	48x64	66x88	120x123	151.5x151.5
0.15x	-	288.5mm	24x32	32x42.7	44x58.7	80x82	101x101
0.2x	-	220.3mm	18x24	24x32	33x44	60x61.5	75.8x75.8
0.25x	-	180.9mm	14.4x19.2	19.2x25.6	26.4x35.2	48x49.2	60.6x60.6
0.3x	143mm	155.8mm	12x16	16x21	22x29.3	40x41	50.5x50.5
0.4x	114mm	127.1mm	9x12	12x16	16.5x22.0	30x30.8	37.9x37.9
0.5x	97mm	113.0mm	7.2x9.6	9.6x12.8	13.2x17.6	24x24.6	30.3x30.3
0.6x	87mm	107.2mm	6x8	8x10.7	11x14.7	20x20.5	25.3x25.3
0.65x	83mm	106.4mm	5.5x7.4	7.4x9.8	10.2x13.5	18.5x18.9	23.3x23.3
0.7x	81mm	-	5.1x6.9	6.9x9.1	9.4x12.6	17.1x17.6	21.6x21.6
0.8x	77mm	-	4.5x6	6x8	8.3x11.0	15x15.4	18.9x18.9
0.9x	76mm	-	4x5.3	5.3x7.1	7.3x9.8	13.3x13.7	16.8x16.8
1x	75mm	-	3.6x4.8	4.8x6.4	6.6x8.8	12x12.3	15.2x15.2

### Optical Specifications

Model	Magnification	O/I	WD	Resolution	Depth of Field	Effective F No	TV Distortion	Largest Compatible Camera	Weight
ML-0310VF	×0.3x	239.5mm	143.5mm	10.1μm ~ 46.5μm	4mm ~ 18.5mm	4.5 ~ 20.8	0.07% or less	1.2"	180g
	×0.65x	179.2mm	83.2mm	5.9μm ~ 27.6μm	1.09mm ~ 5.1mm	5.8 ~ 26.7	0.02% or less		
	×1x	171.2mm	75.2mm	4.7μm ~ 21.7μm	0.56mm ~ 2.6mm	7 ~ 32.4	0.01% or less		

\* Calculated from permissible circle of confusion diameter of 40μm. \* Resolution values indicate the theoretical resolution at a wavelength of 550nm.

### Accessories: Front Converter Lens

Model	Magnification	O/I	WD	Largest Compatible Camera	Weight
ML-VF03	×0.1x	519.9mm	414.4mm	1.2"	30g
	×0.37x	238.9mm	133.4mm		
	×0.65x	211.8mm	106.3mm		

