



MACRO ZOOM LENS

MACHINE VISION LENS

- Wide zoom range for general inspection, documentation, and visual aid applications

MLH-10X

- 1/2"
- MACRO
- ZOOM
- MANUAL



Optical Magnification	0.084X - 0.84X			
Max. Magnification	0.084mm - 0.84mm			
Max. Aperture Ratio	1:5.6			
Max. Image Format	6.4mm x 4.8mm (φ 8mm)			
Operation Range	Iris	F5.6 - F32C		
	Focus	0.15m - 0.45m		
Control	Iris	Manual		
	Focus	Manual		
	Zoom	Manual		
Angle of View	D	21.6° - 4.5°	17.0° - 3.3°	13.0° - 2.5°
	H	1/2" 18.0° - 3.6°	1/3" 13.8° - 2.7°	1/4" 10.6° - 2.0°
	V	13.8° - 2.7°	10.6° - 2.0°	8.0° - 1.5°
Operating Temperature	-10° C ~ +50° C			

Distortion	1/2"	+0.9% at 0.084X (y=4.0)
		+1.6% at 0.84X (y=4.0)
Back Focal Length	23.29mm	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M46 P=0.75mm	
Dimensions	φ 48mm x 98.5mm	
Weight	260g	

Working Distance (mm)	Optical Magnification	Field of View(mm)												
		1/2"			Magnification on Monitor	1/3"			Magnification on Monitor	1/4"			Magnification on Monitor	
		H	V	D		H	V	D		H	V	D		
150	Wide	0.084X	76.2	57.1	95.2	3.73X	57.1	42.9	71.4	4.98X	42.9	32.1	53.6	6.64X
	Middle	0.19X	33.5	25.2	42.3	8.47X	25.2	18.9	31.4	11.29X	18.9	14.2	23.6	15.06X
	Tele	0.84X	7.6	5.7	9.5	37.34X	5.7	4.3	7.1	49.78X	4.3	3.2	5.4	66.38X
200	Wide	0.06X	106.7	80.0	133.3	2.67X	80.0	60.0	100.0	3.56X	60.0	45.0	75.0	4.74X
	Middle	0.13X	47.8	36.1	59.4	5.87X	36.1	27.2	44.9	7.83X	27.2	20.4	33.9	10.44X
	Tele	0.60X	10.7	8.0	13.3	26.67X	8.0	6.0	10.0	35.56X	6.0	4.5	7.5	47.41X
250	Wide	0.045X	142.2	106.7	177.8	2.00X	106.7	80.0	133.3	2.67X	80.0	60.0	100.0	3.56X
	Middle	0.101X	62.3	47.1	77.0	4.49X	47.1	35.5	58.5	5.99X	35.5	26.7	44.2	7.98X
	Tele	0.45X	14.2	10.7	17.8	20.00X	10.7	8.0	13.3	26.67X	8.0	6.0	10.0	35.56X
300	Wide	0.036X	177.8	133.3	222.2	1.60X	133.3	100.0	166.7	2.13X	100.0	75.0	125.0	2.84X
	Middle	0.082X	76.8	58.2	94.8	3.63X	58.2	43.8	72.2	4.84X	43.8	33.0	54.6	6.46X
	Tele	0.36X	17.8	13.3	22.2	16.00X	13.3	10.0	16.7	21.34X	10.0	7.5	12.5	28.45X
350	Wide	0.03X	213.3	160.0	266.7	1.33X	160.0	120.0	200.0	1.78X	120.0	90.0	150.0	2.37X
	Middle	0.069X	91.4	69.3	112.7	3.05X	69.3	52.2	85.9	4.07X	52.2	39.3	65.0	5.42X
	Tele	0.30X	21.3	16.0	26.7	13.34X	16.0	12.0	20.0	17.78X	12.0	9.0	15.0	23.71X
400	Wide	0.025X	256.0	192.0	320.0	1.11X	192.0	144.0	240.0	1.48X	144.0	108.0	180.0	1.98X
	Middle	0.06X	106.0	80.3	130.7	2.63X	80.3	60.6	99.7	3.5X	60.6	45.6	75.4	4.67X
	Tele	0.25X	25.6	19.2	32.0	11.11X	19.2	14.4	24.0	14.82X	14.4	10.8	18.0	19.76X
450	Wide	0.022X	290.9	218.2	363.6	0.98X	218.2	163.6	272.7	1.30X	163.6	122.7	204.5	1.74X
	Middle	0.05X	120.7	91.5	148.7	2.31X	91.5	69.0	113.5	3.08X	69.0	51.9	85.9	4.1X
	Tele	0.22X	29.1	21.8	36.4	9.78X	21.8	16.4	27.3	13.04X	16.4	12.3	20.5	17.38X

Field of View : Horizontal (mm) x Vertical (mm) x Diagonal (mm)
 Monitor Magnification on 14inch Monitor
 Magnification on Monitor = Optical Magnification x Monitor Size / CCD Size

