

High Resolution Zoom Lens

ML-Z07545HR Series

To exploit the full potential of high pixel count cameras, this unique high NA, high resolution telecentric zoom lens series has a long working distance and wide zoom ratio as well as adjustable iris & focus. Available with an integrated coaxial illumination system as well as other options, this lens series is versatile and ideal for extremely accurate gauging and inspection applications at various field of views (FOVs).

- Zoom Ratio 6:1 0.75x 4.5x
- Effective F No 8.4 Variable iris
- Focus Range +/- 3mm
- NA 0.12 (4.5×)
- Working Distance = 70.9 mm



Lineup: 2 Models







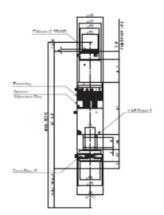
MI-707545HRD Coaxial Illumination Model D

Model	Magnification	O/I	WĎ	Motor Option	Focus	Zoom Position	Resolution	Depth of Field	NA	Effective Fno	TV Distortion	Largest Compatible Camera	Weight
ML 207545HR	0.75x ~ 4.5x	303.9 mm	70.9 mm	Not Available (Manual Zoom)	±3mm	at 0.75x	7.5µm	1.2mm	0.04	8.4	0.02% or less	1/2°	600g
ML 207545HRD	(Zoom ratio of 6:1)					at 2x	4µm	0.2mm	0.08	12	0.01% or less	1/2"	610g

Effective F No indicates designed value when ins is open Calculated based on permissible circle of confusion on the image formation side:40µm



ML-Z07545HR



ML-Z07545HRD



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Front Converter Lens (Optional)

ML-ZHR Series

Attach to the end of the lens to change magnification and WD.

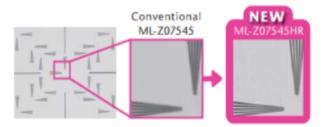


Magnification and W.D. chart

Model	Focus Position	Magnification Range Low High	WD	Coaxial light Matching Chart		
ML-Z025HR	Near	0.21x ~ 1.30x	201.5mm			
	Middle	0.19x ~ 1.14x	243mm	Coaxial Illumination		
	Far	0.16x ~ 0.97x	299mm	Cannot Cover Entire View		
ML-Z03HR	Near	0.25x ~ 1.52x	170mm			
	Middle	0.23x ~ 1.36x	200mm	Coaxial Illumination		
	Far	0.20x ~ 1.21x	237mm	Cannot Cover Entire View		
ML-Z05HR	Near	0.39x ~ 2.38x	107mm	ew.		
	Middle	0.38x ~ 2.27x	118mm	Coaxial Illumination		
	Far	0.36x ~ 2.16x	131mm	Cannot Cover Entire View		
ML-Z075HR	Near	0.57x ~ 3.46x	76.4mm			
	Middle	0.56x ~ 3.40x	81.7mm	Coaxial Illumination		
	Far	0.55x ~ 3.35x	87,1mm	Cannot Cover Entire View		
ML-Z135HR	Near	1.00x ~ 6.05x	37mm			
	Middle	1.01x - 6.12x	38.6mm	0		
	Far	1.02x ~ 6.17x	40mm			
ML-Z20HR	Near	1.45x ~ 8.80x	17mm			
	Middle	1.49x ~ 9.02x	18mm	0		
	Far	1.53x ~ 9.25x	18.8mm	1000		

Motorized Zoom Options Available

HR Series Improves Resolution



Motor type: Stepping motor with limit sensors



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Indicated values are based on calculation and not guaranteed values.
When you used Mt. 2025HR,Mt. 203HR,Mt. 205HR,Mt. 2075HR,coaxial illumination does not cover entire view.