

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 0.75× – 4.5×**
- **Effective F No 8.4 – Variable iris**
- **Focus Range +/- 3mm**
- **NA 0.12 (4.5×)**
- **Working Distance = 70.9 mm**



Lineup : 2 Models



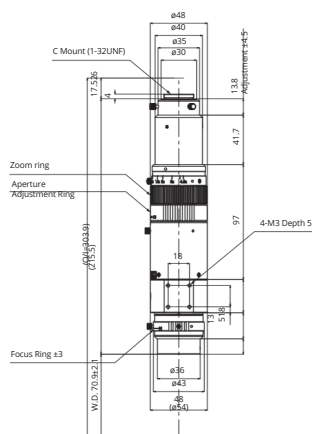
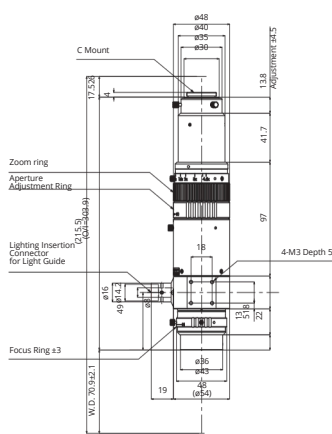
ML-Z07545HR



ML-Z07545HRD
Coaxial Illumination Model D

Model	Magnification	O/I	WD	Motor Option	Focus	Zoom Position	Resolution	Depth of Field	NA	Effective Fno	TV Distortion	Largest Compatible Camera	Weight
ML-Z07545HR	0.75x ~ 4.5x (Zoom ratio of 6:1)	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-Z07545HRD						at 2x	4µm	0.2mm	0.08	12	0.01% or less	1/2"	610g

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

ML-Z07545HR**ML-Z07545HRD****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		WD	Coaxial light Matching Chart
		Low	High		
ML-Z025HR	Near	0.21x ~ 1.30x		201.5mm	Coaxial Illumination Cannot Cover Entire View
	Middle	0.19x ~ 1.14x		243mm	
	Far	0.16x ~ 0.97x		299mm	
ML-Z03HR	Near	0.25x ~ 1.52x		170mm	Coaxial Illumination Cannot Cover Entire View
	Middle	0.23x ~ 1.36x		200mm	
	Far	0.20x ~ 1.21x		237mm	

* Indicated values are based on calculation and not guaranteed values.

* When you used ML-Z025HR, ML-Z03HR, ML-Z05HR, ML-Z075HR, coaxial illumination does not cover entire view

HR Series Improves Resolution