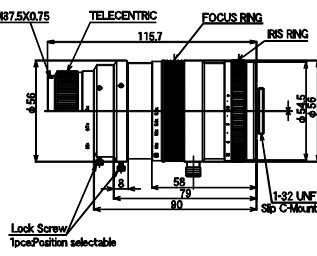


- ◆ Telecentric lens with variable magnification
- ◆ Wide telecentric "magnification" range from 0.5x to 1.0x
- ◆ 0.3x for macro use

## LM50TC



2/3" 150mm  
C METAL  
C-mount Metal Body

Model	LM50TC
Focal length (mm)	50
Image size (mm)	2/3" (Ø8)
Iris range (F-stop)	F2.8-Close
Focusing range (m)	0.085-∞
Control	Manual
Focus	Manual
Magnification	0.5X-1.0X
Angle of view (2/3 inch view)	10x7.5
Resolution (line/mm)	7.3x5.3
Corner brightness	5.5x4.1
Distortion (TV)	0.1% (1.0X) -0.3% (0.5X)
Back focus in air (mm)	22.0
Mount	C-mount
Filter thread (mm)	M37.5xP0.5
Size (mm)	Ø65x115.7
Weight (g)	317
Temperature range	-10°C~+45°C

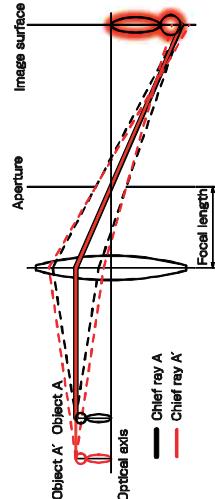
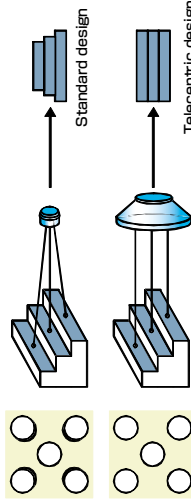
Specifications are subject to change without notice.

※ Images may differ from the actual product.

### Telecentric Optical System

In a telecentric optical system, there is no change in magnification when focusing, and magnification is constant over working distances. Thus movement of an object does not change magnification. Therefore, it is suitable for measuring objects with high accuracy.

In a telecentric optical system, the chief rays are parallel to the optical axis. As a result, the aperture becomes greater as the magnification is fixed by focusing the rays. Therefore, its F-number tends to be bigger, in comparison with that of megapixels lenses.



### Application examples

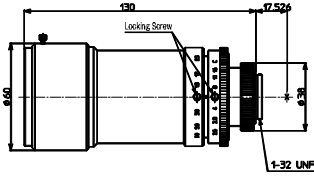
- Surface inspection of silicon wafers
- Image defect inspections
- Inspection of dirt on prisms and glass circuit boards
- Measurement of thread pitches
- Reading 2D codes

※ Images may differ from the actual product.

- ◆ Two zoom ranges (6x and 10x)
- ◆ Excellent for pattern matching, measurement, inspection, and character recognition

## LMZ50M

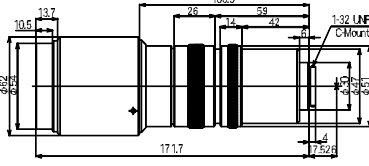
(Close-up lens included)



1/3" 85-96mm  
2000x Zoom  
C METAL  
C-mount Metal Body

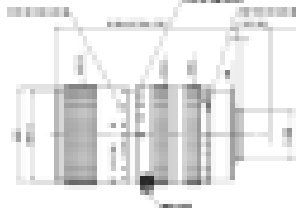
## LMZ45T3

(Close-up lens included)



2/3" 105-106mm  
2400x Zoom  
C METAL  
C-mount Metal Body

## LMZ68M



1/2" 8-48mm  
14000x Zoom  
C METAL  
C-mount Metal Body

## LMZ69M



2/3" 115-63mm  
2400x Zoom  
C METAL  
C-mount Metal Body

Model	LMZ50M	LMZ45T3	LMZ68M	LMZ69M
Focal length (mm)	8.5-90 (10.6X)	18-106 (6X)	8-48 (6X)	11.5-68 (6X)
Image size (mm)	1/3" (Ø6)	2/3" (Ø11)	1/2" (Ø8)	2/3" (Ø11)
Iris range (F-stop)	F2.5-Close	F2.5-Close	F1.0-Close	F1.4-Close
Focusing range (m)	0.15-0.3 (with close up lens)	0.13-0.3 (with close up lens)	0.3-∞	0.5-∞ (0.01 at Macro)
Control	Manual	Manual	Manual	Manual
Focus	Manual	Manual	Manual	Manual
Angle of view (2/3 inch view)	—	W27.3x20.5/74.7x3.5	—	W14.9x32.0/77.3x5.5
Resolution (line/mm)	W20.5x15.4/73.5x2.6	W15.5x11.6/75.2x2.0	W43.6x33.4/77.7x5.7	—
Distortion (TV)	W-1.2%/T0.1%	W-0.7%/T0.1%	100lp/mm, 60lp/mm	100lp/mm, 60lp/mm
Back focus in air (mm)	25.49	19.23	14.56	17.93
Mount	C-mount	C-mount	C-mount	C-mount
Filter thread (mm)	M48xP0.75	M48xP0.75	M48x0.75	M48x0.75
Size (mm)	Ø60x130	Ø62x117	Ø48x102.7	Ø48x102.7
Weight (g)	437	595	280	300
Temperature range	-10°C~+45°C	-10°C~+45°C	-10°C~+45°C	-10°C~+45°C

Specifications are subject to change without notice.

※ Images may differ from the actual product.