1/1.8" 3CCD

LM4NC3 | LM6NC3 | LM12NC3 | LM25NC3 | LM50NC3

NC3 Series

- For megapixel applications
- For megapixel applications
- Excellent corner brightness
- Wide product range: 5 lenses in series
- Low distortion
- Low chromatic aberration

Quality comparison between
Kowa 3CCD lens and normal lens

LM4NC3

1/1.8" 1/2" 1/3" 4mm FIXED Fixed Focal 3CCD 3CCD Camera C-mt C-mount METAL Metal Body

LM6NC3

1/1.8" 1/2" 1/3" 6mm FIXED Fixed Focal 3CCD 3CCD Camera C-mt C-mount METAL Metal Body

LM12NC3

1/1.8" 1/2" 1/3" 12mm FIXED Fixed Focal 3CCD 3CCD Camera C-mt C-mount METAL Metal Body

LM25NC3

1/1.8" 1/2" 1/3" 25mm FIXED Fixed Focal 3CCD 3CCD Camera C-mt C-mount METAL Metal Body

LM50NC3

1/1.8" 1/2" 1/3" 50mm FIXED Fixed Focal 3CCD 3CCD Camera C-mt C-mount METAL Metal Body

Model	LM4NC3	LM6NC3	LM12NC3	LM25NC3	LM50NC3
Focal Length(mm)	4	6	12	25	50
Image Size(mm)	6.4×4.5(Φ8)	6.4×4.5(Φ8)	6.4×4.5(Φ8)	6.4×4.5(Φ8)	6.4×4.5(Φ8)
Iris Range(F-stop)	F1.8~F16	F1.8~F16	F1.8~F16	F1.8~F16	F1.8~F16
Focusing Range(m)	0.1~∞	0.1~∞	0.15~∞	0.2~∞	0.3~∞
Control Iris	Manual	Manual	Manual	Manual	Manual
Control Focus	Manual	Manual	Manual	Manual	Manual
Shooting Range at M.O.D.(mm)	233.5(H)×163.4(V)	146.9(H)×107.2(V)	99.8(H)×74.0(V)	62.9(H)×57.0(V)	45.8(H)×34.3(V)
Angle of View (Degrees) 1/1.8 inch	91.9×71.8	65.3×50.1	34.1×25.7	16.4×12.3	7.9×5.9
Angle of View (Degrees) 1/2 inch	83.4×64.5	58.8×44.9	30.4×22.8	14.6×11.0	7.0×5.3
Angle of View (Degrees) 1/3 inch	64.5×49.2	45.7×33.9	22.8×17.2	11.0×8.2	5.3×4.0
Resolution(Center, Corner)	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm
TV Distortion(%)	−5.0	−2.4	−1.2	−0.17	0.02
Back Focus in Air(mm)	14.7	15.2	15.2	15.0	21.2
Mount	C-mount	C-mount	C-mount	C-mount	C-mount
Filter Thread(mm)	M46×P0.75	M37.5×P0.5	M27×P0.5	M27×P0.5	M35.5×P0.5
Size(mm)	Φ48×68.7	Φ39×64.3	Φ30×58.5	Φ30×47	Φ40×66
Weight(g)	120	105	95	80	160
Temperature Range	−10°C~+50°C	−10°C~+50°C	−10°C~+50°C	−10°C~+50°C	−10°C~+50°C

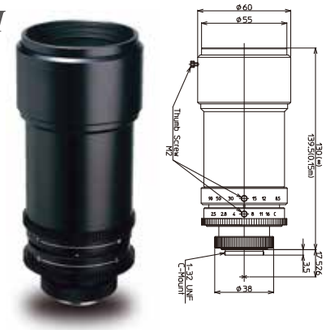
† Images may differ from the actual product.

MACRO ZOOM

LMZ50M | LMZ45T3 | LMZ68M | LMZ69M

- 2 zoom ranges (6× and 10×)
- Excellent for pattern matching, measurement, inspection, and character recognition

LMZ50M



1/3" inf~0.7× 8.5-90mm ZOOM Fixed Focal C-mt C-mount METAL Metal Body

LMZ45T3

2/3" 1/2" 1/3" inf~1.1× 18-108mm ZOOM Fixed Focal C-mt C-mount METAL Metal Body

LMZ68M

1/2" 8-48mm ZOOM Fixed Focal C-mt C-mount METAL Metal Body

LMZ69M

2/3" 11.5-69mm ZOOM Fixed Focal C-mt C-mount METAL Metal Body

Model	LMZ50M		LMZ45T3	
Magnification	inf~0.7×		inf~1.1×	
Zoom Magnification	10×		6×	
Image Size(mm)	4.8×3.6(Φ6)		8.8x6.6(Φ11)	
Close up lens	3Dpt.un-installed	3Dpt.installed	3Dpt.un-installed	3Dpt.installed
Shooting Magnification	Inf~0.28×	0.07~0.7×	Inf~0.72×	0.053~1.1×
W.D (mm)	Inf~M.O.D=310	WD=310~150	Inf~M.O.D=185	WD=330~115
Iris Range(F-stop)	F2.5~Close		F2.5~Close	
Object side N.A.	–	–	–	–
Image side N.A.	–	–	–	–
TV Distortion(%)	0.1	0.1	−0.3	−0.1
Angle of View(Degrees) 2/3 inch	–	– –	inf wide 27.3×20.5° inf tele 4.7×3.5° WD=185 wide 67.0×50.1 WD=185 tele 11.7×9.0	WD=330 wide 165.4×123.8 WD=330 tele 28.3×21.3 WD=115 wide 43.8×32.8 WD=115 tele 7.6×5.9
Angle of View(Degrees) 1/2 inch	–	– –	inf wide 19.9×14.9° inf tele 3.4×2.6° WD=185 wide 48.6×36.5 WD=185 tele 8.7×6.6	WD=330 wide 120.0×89.8 WD=330 tele 20.7×15.6 WD=115 wide 31.8×23.8 WD=115 tele 5.7×4.3
Angle of View(Degrees) 1/3 inch	inf wide 31.3×23.5° inf tele 3.2×2.4° WD=310 wide 140.7×103.0 WD=310 tele 14.0×10.4	WD=310 wide 172.0×128.4 WD=310 tele 17.1×12.8 WD=150 wide 69.1×51.7 WD=150 tele 6.9×5.2	inf wide 14.9×11.2° inf tele 2.6×2.0° WD=185 wide 36.5×27.3 WD=185 tele 6.6×5.0	WD=330 wide 89.8×67.4 WD=330 tele 15.6×11.7 WD=115 wide 23.8×17.9 WD=115 tele 4.3×3.3
Mount	C-mount		C-mount	
Control Iris	Manual		Manual	
Control Focus	Manual		Manual	
Control Zoom	Manual		Manual	
Filter Thread(mm)	M48×P0.75		M52×P0.75	
Size(mm)	Φ60×130		Φ62×171.7	
Weight(g)	437		595	
Temperature Range	−10°C~+50°C		−10°C~+50°C	

Model	LMZ68M	LMZ69M
Focal Length(mm)	8~48(6×)	11.5~69(6×)
Image Size(mm)	6.4×4.8(Φ8)	8.8×6.6(Φ11)
Iris Range(F-stop)	F1.0~Close	F1.4~Close
Focusing Range(m)	1.0~∞	1.0~∞
(Macro)	0.01	0.01
Control Iris	Manual	Manual
Control Focus	Manual	Manual
Control Zoom	Manual	Manual
Angle of View(Degrees)	W43.6×33.4/T7.7×5.7	W41.9×32.0/T7.3×5.5
Mount	C-mount	C-mount
Filter Thread(mm)	M46×0.75	M46×0.75
Size(mm)	Φ50.5×92.8	Φ50.5×98.2
Weight(g)	280	300
Temperature Range	−10°C~+50°C	−10°C~+50°C

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