

# NCM/JCM Series

## High Resolution FA/MV Lenses

### Features of WIDE NCM/JCM Series

- ▶ Super wide optical design
- ▶ Large angle of view
- ▶ Expansion angle  
(Horizontal angle 82degree, Vertical angle 66degree)

† 2/3" model: LM5JCM, 1/1.8" model: LM3NCM

### Low distortion

- ▶ Reduces the distortion to corner
- † LM5JCM: Under 0,5%, LM3NCM: Under 0,4% (TV distortion)

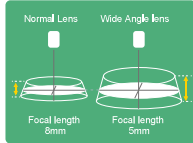
### High quality

- ▶ Adapts to 2 megapixel cameras
- ▶ Improves center and corner resolution
- ▶ High transmittance

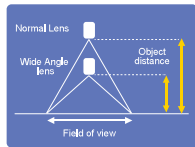


Corner image comparison  
(Super wide angle lens vs. Standard lens)

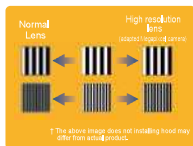
#### Long Depth of field



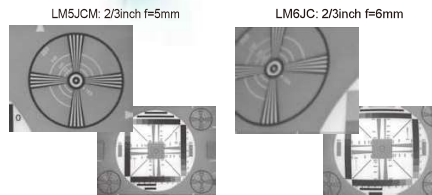
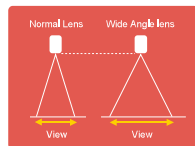
#### Short Close distance



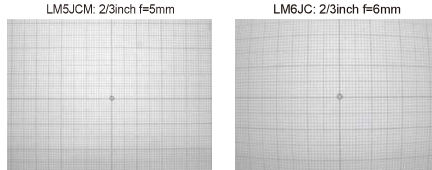
#### Clear image



#### Large field of view



#### Distortion comparison at short distance object



Capture image taken by 2megapixel camera

† Images may differ from the actual product.

### LM3NCM



1/1.8" 1/2" 1/3" 3.5mm FIXED MEGA C-MT METAL LO-DIS  
Fixed Focal Megapixel Countout Metal Body Low Distortion

### LM4NCM



1/1.8" 1/2" 1/3" 4.4mm FIXED MEGA C-MT METAL LO-DIS  
Fixed Focal Megapixel Countout Metal Body Low Distortion

### LM6NCM



1/2" 1/3" 6mm FIXED MEGA C-MT METAL LO-DIS  
Fixed Focal Megapixel Countout Metal Body Low Distortion

### LM5JCM



2/3" 1/1.8" 1/2" 5mm FIXED MEGA C-MT METAL LO-DIS  
Fixed Focal Megapixel Countout Metal Body Low Distortion

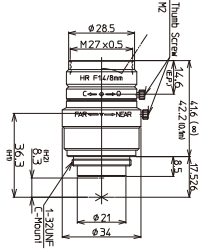
Model	LM3NCM	LM4NCM	LM6NCM	LM5JCM
Focal Length(mm)	3,5	4,4	6	5
Image Size(mm)	7,2×5,4(Φ9)	7,2×5,4(Φ9)	6,4×4,8(Φ8)	8,8×6,6(Φ11)
Iris Range(F-stop)	F2,4-F14	F1,6-F16	F1,2-Close	F2,8-F16
Focusing Range(m)	0,1-∞	0,1-∞	0,1-∞	0,1-∞
Control	Manual	Manual	Manual	Manual
Focus	Manual	Manual	Manual	Manual
Shooting Range at M.O.D.(mm)	226,3(H)~171,4(V)	190,0(H)~141,2(V)	122,2(H)~91,0(V)	200,8(H)~150,8(V)
Angle of View	2/3 inch	—	—	82,4×66,9
View (Degrees)	1/1,8 inch: 89,0×73,8 1/2 inch: 82,4×66,9 1/3 inch: 66,9×52,7	76,6×61,3 70,2×55,5 55,5×43	— 56,2×43,5 43,5×33,2	— 71,7×57,1 65,2×51,3
Resolution(Center, Corner)	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm	120lp/mm, 100lp/mm
TV Distortion(%)	0,4	-0,2	-0,2	0,5
Back Focus in Air(mm)	9,7	8,8	8,2	10,0
Mount	C-mount	C-mount	C-mount	C-mount
Filter Thread(mm)	M40,5×P0,5	M43×P0,75	M30,5×P0,5	M40,5×P0,5
Size(mm)	Φ42×38,2	Φ45×37,3	Φ34×38,2	Φ42×38,2
Weight(g)	85	150	100	84
Temperature Range	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C

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# JCM Series

- World standard and popular lens series
- Excellent corner brightness
- Low distortion
- For megapixel applications
- High resolution

## LM8JCM

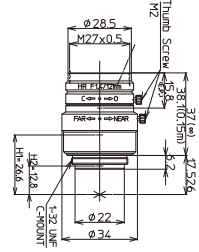


2/3" 1/1.8" 1/2" 8mm **FIXED** **MEGA** **C-MT** **METAL** **LO-DIS**  
Fixed Focal Megapixel C-mount Metal Body Low Distortion

Model	LM8JCM
Focal Length(mm)	8
Image Size(mm)	8.8×6.6(Φ11)
Iris Range(F-stop)	F1.4-Close
Focusing Range(m)	0.1-∞
Control	Iris Manual Focus Manual
Shooting Range at M.O.D.(mm)	120.3(H)×90.0(V)
Angle of 2/3 Inch	56.5×43.9
View 1/1.8 Inch	47.4×36.3
(Degrees) 1/2 Inch	42.6×32.5
Resolution(Center, Corner)	120lp/mm, 100lp/mm
TV Distortion(%)	-0.6
Back Focus in Air(mm)	9.7
Mount	C-mount
Filter Thread(mm)	M27×P0.5
Size(mm)	Φ34×41.6
Weight(g)	90
Temperature Range	-10°C→+50°C

Option : Models with iris & focus scales (LM-JC1MS Series)

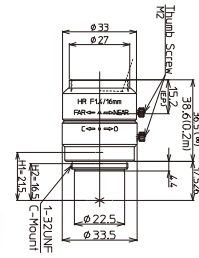
## LM12JCM



2/3" 1/1.8" 1/2" 12mm **FIXED** **MEGA** **C-MT** **METAL** **LO-DIS**  
Fixed Focal Megapixel C-mount Metal Body Low Distortion

Model	LM12JCM
Focal Length(mm)	12
Image Size(mm)	8.8×6.6(Φ11)
Iris Range(F-stop)	F1.4-Close
Focusing Range(m)	0.15-∞
Control	Iris Manual Focus Manual
Shooting Range at M.O.D.(mm)	110.0(H)×82.5(V)
Angle of 2/3 Inch	38.3×29.1
View 1/1.8 Inch	31.7×24.0
(Degrees) 1/2 Inch	28.3×21.4
Resolution(Center, Corner)	120lp/mm, 100lp/mm
TV Distortion(%)	-0.07
Back Focus in Air(mm)	11.7
Mount	C-mount
Filter Thread(mm)	M27×P0.5
Size(mm)	Φ34×37
Weight(g)	85
Temperature Range	-10°C→+50°C

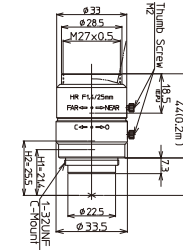
## LM16JCM



2/3" 1/1.8" 1/2" 16mm **FIXED** **MEGA** **C-MT** **METAL** **LO-DIS** **FLOAT**  
Fixed Focal Megapixel C-mount Metal Body Low Distortion Floating

Model	LM16JCM
Focal Length(mm)	16
Image Size(mm)	8.8×6.6(Φ11)
Iris Range(F-stop)	F1.4-F16
Focusing Range(m)	0.2-∞
Control	Iris Manual Focus Manual
Shooting Range at M.O.D.(mm)	112.8(H)×84.4(V)
Angle of 2/3 Inch	30.0×22.7
View 1/1.8 Inch	24.7×18.6
(Degrees) 1/2 Inch	21.8×16.4
Resolution(Center, Corner)	120lp/mm, 100lp/mm
TV Distortion(%)	-0.05
Back Focus in Air(mm)	13.1
Mount	C-mount
Filter Thread(mm)	M25.5×P0.5
Size(mm)	Φ33.5×36.5
Weight(g)	85
Temperature Range	-10°C→+50°C

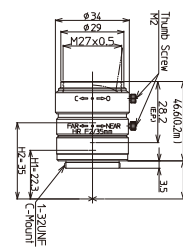
## LM25JCM



2/3" 1/1.8" 1/2" 25mm **FIXED** **MEGA** **C-MT** **METAL** **FLOAT**  
Fixed Focal Megapixel C-mount Metal Body Floating

Model	LM25JCM
Focal Length(mm)	25
Image Size(mm)	8.8×6.6(Φ11)
Iris Range(F-stop)	F1.4-F16
Focusing Range(m)	0.2-∞
Control	Iris Manual Focus Manual
Shooting Range at M.O.D.(mm)	71.1(H)×53.3(V)
Angle of 2/3 Inch	19.6×14.8
View 1/1.8 Inch	16.1×12.1
(Degrees) 1/2 Inch	14.0×10.5
Resolution(Center, Corner)	120lp/mm, 100lp/mm
TV Distortion(%)	-0.04
Back Focus in Air(mm)	11.7
Mount	C-mount
Filter Thread(mm)	M27×P0.5
Size(mm)	Φ33.5×38.5
Weight(g)	90
Temperature Range	-10°C→+50°C

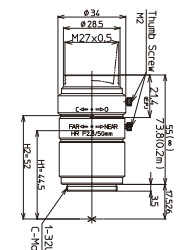
## LM35JCM



2/3" 1/1.8" 1/2" 35mm **FIXED** **MEGA** **C-MT** **METAL** **FLOAT**  
Fixed Focal Megapixel C-mount Metal Body Floating

Model	LM35JCM
Focal Length(mm)	35
Image Size(mm)	8.8×6.6(Φ11)
Iris Range(F-stop)	F2.0-F16
Focusing Range(m)	0.2-∞
Control	Iris Manual Focus Manual
Shooting Range at M.O.D.(mm)	47.9(H)×35.8(V)
Angle of 2/3 Inch	14.4×10.8
View 1/1.8 Inch	11.8×8.8
(Degrees) 1/2 Inch	10.5×7.9
Resolution(Center, Corner)	120lp/mm, 100lp/mm
TV Distortion(%)	-0.2
Back Focus in Air(mm)	20.1
Mount	C-mount
Filter Thread(mm)	M27×P0.5
Size(mm)	Φ34×36.5
Weight(g)	70
Temperature Range	-10°C→+50°C

## LM50JCM



2/3" 1/1.8" 1/2" 50mm **FIXED** **MEGA** **C-MT** **METAL** **FLOAT**  
Fixed Focal Megapixel C-mount Metal Body Floating

Model	LM50JCM
Focal Length(mm)	50
Image Size(mm)	8.8×6.6(Φ11)
Iris Range(F-stop)	F2.8-F22
Focusing Range(m)	0.2-∞
Control	Iris Manual Focus Manual
Shooting Range at M.O.D.(mm)	29.3(H)×21.9(V)
Angle of 2/3 Inch	9.6×7.2
View 1/1.8 Inch	7.9×5.9
(Degrees) 1/2 Inch	7.0×5.2
Resolution(Center, Corner)	120lp/mm, 100lp/mm
TV Distortion(%)	-0.03
Back Focus in Air(mm)	35.5
Mount	C-mount
Filter Thread(mm)	M27×P0.5
Size(mm)	Φ34×55
Weight(g)	95
Temperature Range	-10°C→+50°C

Diagram of M.O.D. / Magnification Using A Close Up Ring

Model	LM8JCM	LM12JCM	LM16JCM	LM25JCM	LM35JCM	LM50JCM
(10mm)M.C.D./Magnification	100mm/0.07×	150mm/0.08×	200mm/0.08×	200mm/0.12×	200mm/0.18×	200mm/0.30×
(1mm Ring)M.C.D./Magnification	30mm/0.20×	70mm/0.16×	110mm/0.14×	150mm/0.16×	175mm/0.21×	190mm/0.32×
(5mm Ring)M.C.D./Magnification	-	-	-	73mm/0.31×	-	160mm/0.39×
(10mm Ring)M.C.D./Magnification	-	-	-	-	81mm/0.46×	135mm/0.48×
(20mm Ring)M.C.D./Magnification	-	-	-	-	51mm/0.73×	105mm/0.65×

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