

XC Series

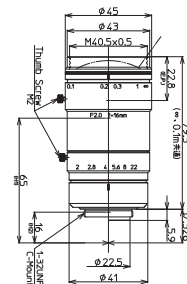
High Resolution FA/MV Lenses

Features of XC Series

- ▶ Large image size of $\Phi 23\text{mm}$ incorporated within a C-mount design.
- ▶ Megapixel resolution is maintained throughout the entire image even when the iris is fully opened.
- ▶ High precision aspherical lens greatly reduces distortion and produces a high-definition picture.
- ▶ The LM8XC generates a very wide 93.5° horizontal angle of view.
- ▶ Kowa's floating mechanism system virtually eliminates optical aberrations from close distance to infinity.



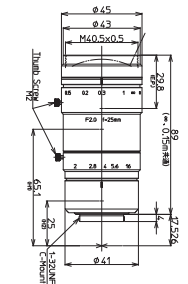
LM16XC



4/3" 1.1" 1" 2/3" 16mm

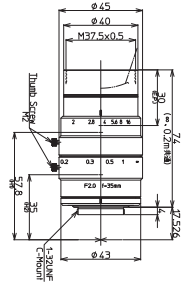
FIXED 8MEGA C-mt METAL LO-DIS FLOAT XD WBMC

LM25XC



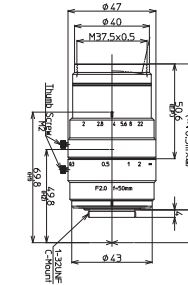
4/3" 1.1" 1" 2/3" 25mm

LM35XC



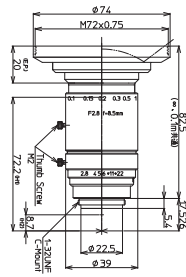
4/3" 1.1" 1" 2/3" 35mm

LM50XC



4/3" 1.1" 1" 2/3" 50mm

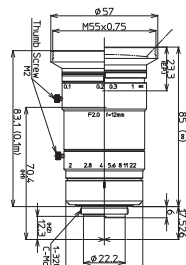
FIXED 8MEGA C-mt METAL LO-DIS FLOAT WBMC



Model	LM8XC
Focal Length(mm)	8.5
Image Size(mm)	18.4×13.8(Φ23)
Iris Range(F-stop)	F2.8-F22
Focusing Range(m)	0.1-∞
Control	Manual
Focus	Manual
Shooting Range at M.O.D.(mm)	238.4(H)×179.1(V)
Angle of View	4/3 Inch 93.5×77.1
View	1.1 Inch 78.2×62.7
(Degrees)	1 Inch 72.9×57.9
2/3 Inch	53.8×41.6
Resolution(Center, Corner)	160lp/mm, 80lp/mm
TV Distortion(%)	0.12
Back Focus in Air(mm)	12.9
Mount	C-mount
Filter Thread(mm)	M72×P0.75
Size(mm)	Φ74×82.5
Weight(g)	245
Temperature Range	-10°C→+50°C

4/3" 1.1" 1" 2/3" 8.5mm FIXED 8MEGA C-mt METAL LO-DIS FLOAT XD WBMC

LM12XC



Model	LM12XC
Focal Length(mm)	12
Image Size(mm)	18.4×13.8(Φ23)
Iris Range(F-stop)	F2.0-F22
Focusing Range(m)	0.1-∞
Control	Manual
Focus	Manual
Shooting Range at M.O.D.(mm)	181.5(H)×135.5(V)
Angle of View	4/3 Inch 74.9×59.6
View	1.1 Inch 60.6×47.1
(Degrees)	1 Inch 55.9×43.1
2/3 Inch	39.8×30.2
Resolution(Center, Corner)	160lp/mm, 80lp/mm
TV Distortion(%)	0.59
Back Focus in Air(mm)	13.0
Mount	C-mount
Filter Thread(mm)	M55×P0.75
Size(mm)	Φ57×85
Weight(g)	270
Temperature Range	-10°C→+50°C

4/3" 1.1" 1" 2/3" 12mm FIXED 8MEGA C-mt METAL LO-DIS FLOAT XD WBMC

Magnification Using A Close Up Ring

You can use close up rings to increase the magnification and decrease the minimum object distance (M.O.D.) of the lens. Simply screw in the spacer ring between the threads of the lens mount and camera.



† Images may differ from the actual product.

Model	LM16XC	LM25XC	LM35XC	LM50XC
Focal Length(mm)	16	25	35	50
Image Size(mm)	18.4×13.8(Φ23)	18.4×13.8(Φ23)	18.4×13.8(Φ23)	18.4×13.8(Φ23)
Iris Range(F-stop)	F2.0-F22	F2.0-F16	F2.0-F16	F2.0-F22
Focusing Range(m)	0.1-∞	0.15-∞	0.2-∞	0.3-∞
Control	Manual	Manual	Manual	Manual
Focus	Manual	Manual	Manual	Manual
Shooting Range at M.O.D.(mm)	134.6(H)×100.8(V)	124.8(H)×93.0(V)	100.3(H)×75.3(V)	100.2(H)×75.5(V)
Angle of View	4/3 Inch 60.6×47.2	40.9×31.1	29.6×22.4	20.6×15.7
View	1.1 Inch 48.0×36.8	31.8×24.0	22.8×17.2	16.0×12.0
(Degrees)	1 Inch 44.0×33.6	28.9×21.8	20.8×15.6	14.6×11.0
2/3 Inch	30.9×23.3	20.1×15.2	14.3×10.8	10.1×7.6
Resolution(Center, Corner)	160lp/mm, 80lp/mm	160lp/mm, 80lp/mm	160lp/mm, 80lp/mm	160lp/mm, 80lp/mm
TV Distortion(%)	0.02	-0.57	-0.17	0.80
Back Focus in Air(mm)	13.0	24.3	15.2	21.6
Mount	C-mount	C-mount	C-mount	C-mount
Filter Thread(mm)	M40.5×P0.5	M40.5×P0.5	M37.5×P0.5	M37.5×P0.5
Size(mm)	Φ45×79.5	Φ45×89	Φ45×74	Φ47×78
Weight(g)	250	255	210	235
Temperature Range	-10°C→+50°C	-10°C→+50°C	-10°C→+50°C	-10°C→+50°C

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

Model	LM8XC	LM12XC	LM16XC	LM25XC	LM35XC	LM50XC
(Non)M.O.D./Magnification	100mm/0.08×	100mm/0.10×	100mm/0.14×	150mm/0.15×	200mm/0.18×	300mm/0.18×
(1mm Ring)M.O.D./Magnification	30mm/0.19×	48mm/0.19×	64mm/0.20×	115mm/0.19×	174mm/0.21×	273mm/0.20×
(5mm Ring)M.O.D./Magnification	-	-	21mm/0.46×	56mm/0.35×	117mm/0.33×	204mm/0.28×
(10mm Ring)M.O.D./Magnification	-	-	-	31mm/0.55×	85mm/0.48×	158mm/0.39×
(20mm Ring)M.O.D./Magnification	-	-	-	12mm/0.96×	58mm/0.77×	115mm/0.59×

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