JC10M Series

High Resolution FA/MV Lenses

Features of JC10M Series

- 200lp/mm center resolution and low distortion maximize performance of high-end inspection.
- Incorporating Kowa's wide-band multi-coating and floating mechanism system, the JC10M lens series greatly reduces chromatic aberration from close distance to infinity and maintains a high transmission from visible to NIR.
- Short minimum object distance and compact design using aspherical lenses (5 models/f=5~25mm) allow for easy installation in compact machine vision systems.

LM5JC10M

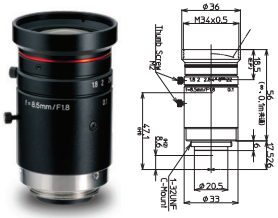
2/3" 1/1.8" 1/2" 5mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT XD WBMC

Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Extra Low Dispersion / Wide-Band Multi-Coating

Model		LM5JC10M
Focal Length(mm)		5
Image Size(mm)		8.8×6.6(Φ11)
Iris Range(F-stop)		F1.8~F16
Focusing Range(m)		0.1~∞
Control	Iris	Manual
	Focus	Manual
Shooting Range at M.O.D.(mm)		197.0(H)×147.0(V)
Angle of View (Degrees)	2/3 Inch	82.2×66.5
	1/1.8 Inch	71.1×56.5
	1/2 Inch	64.9×51.1
Resolution(Center, Corner)		200lp/mm, 160lp/mm
TV Distortion(%)		−0.33
Back Focus in Air(mm)		10.3
Mount		C-mount
Filter Thread(mm)		M46×P0.75
Size(mm)		Φ48×59.4
Weight(g)		120
Temperature Range		−10°C~+50°C

† Images may differ from the actual product.

LM8JC10M



2/3" 1/1.8" 1/2" 8.5mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT XD WBMC

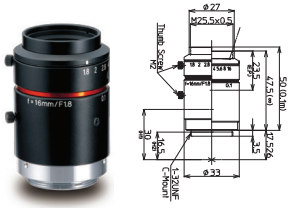
Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Extra Low Dispersion / Wide-Band Multi-Coating

LM12JC10M

2/3" 1/1.8" 1/2" 12mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT XD WBMC

Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Extra Low Dispersion / Wide-Band Multi-Coating

LM16JC10M



2/3" 1/1.8" 1/2" 16mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT WBMC

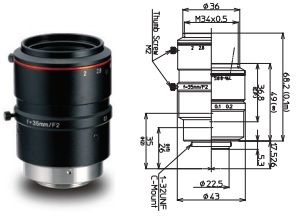
Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Wide-Band Multi-Coating

LM25JC10M

2/3" 1/1.8" 1/2" 25mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT WBMC

Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Wide-Band Multi-Coating

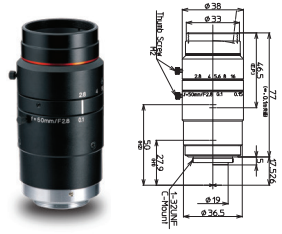
LM35JC10M



2/3" 1/1.8" 1/2" 35mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT WBMC

Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Wide-Band Multi-Coating

LM50JC10M



2/3" 1/1.8" 1/2" 50mm FIXED 10MEGA C-mt METAL LO-DIS FLOAT XD WBMC

Fixed Focal / Megapixel / C-mount / Metal Body / Low Distortion / Floating / Extra Low Dispersion / Wide-Band Multi-Coating

Model		LM8JC10M	LM12JC10M	LM16JC10M	LM25JC10M	LM35JC10M	LM50JC10M
Focal Length(mm)		8.5	12	16	25	35	50
Image Size(mm)		8.8×6.6(Φ11)	8.8×6.6(Φ11)	8.8×6.6(Φ11)	8.8×6.6(Φ11)	8.8×6.6(Φ11)	8.8×6.6(Φ11)
Iris Range(F-stop)		F1.8~F22	F1.8~F11	F1.8~F16	F1.8~F16	F2.0~F16	F2.8~F16
Focusing Range(m)		0.1~∞	0.1~∞	0.1~∞	0.1~∞	0.1~∞	0.1~∞
Control	Iris	Manual	Manual	Manual	Manual	Manual	Manual
	Focus	Manual	Manual	Manual	Manual	Manual	Manual
Shooting Range at M.O.D.(mm)		133.2(H)×99.6(V)	80.7(H)×60.2(V)	61.1(H)×45.7(V)	36.7(H)×27.5(V)	23.4(H)×17.6(V)	19.1(H)×14.3(V)
Angle of View (Degrees)	2/3 Inch	54.0×41.9	39.1×29.8	30.0×22.7	20.0×15.1	14.3×10.8	10.1×7.6
	1/1.8 Inch	45.3×34.8	32.4×24.6	24.7×18.6	16.4×12.3	11.7×8.8	8.2×6.1
	1/2 Inch	40.8×31.2	28.9×21.9	22.0×16.6	14.6×11.0	10.4×7.8	7.3×5.5
Resolution(Center, Corner)		200lp/mm, 160lp/mm	200lp/mm, 160lp/mm	200lp/mm, 160lp/mm	200lp/mm, 160lp/mm	200lp/mm, 160lp/mm	200lp/mm, 160lp/mm
TV Distortion(%)		0.31	−0.12	−0.20	−0.09	0.05	−0.02
Back Focus in Air(mm)		12.1	13.9	14.6	17.9	14.2	12.8
Mount		C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Filter Thread(mm)		M34×P0.5	M25.5×P0.5	M25.5×P0.5	M25.5×P0.5	M34×P0.5	M30.5×P0.5
Size(mm)		Φ36×56.0	Φ33×53.5	Φ33×47.5	Φ33×45.5	Φ43×49	Φ38×77
Weight(g)		115	105	90	95	160	170
Temperature Range		−10°C~+50°C	−10°C~+50°C	−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	LM5JC10M	LM8JC10M	LM12JC10M	LM16JC10M	LM25JC10M	LM35JC10M	LM50JC10M
(Non)M.O.D./Magnification	100mm/0.05×	100mm/0.07×	100mm/0.11×	100mm/0.15×	100mm/0.24×	100mm/0.38×	100mm/0.46×
(1mm Ring)M.O.D./Magnification	–	20mm/0.20×	48mm/0.19×	61mm/0.21×	79mm/0.28×	85mm/0.40×	91mm/0.48×
(5mm Ring)M.O.D./Magnification	–	–	–	18mm/0.45×	46mm/0.44×	65mm/0.50×	76mm/0.58×
(10mm Ring)M.O.D./Magnification	–	–	–	–	29mm/0.63×	49mm/0.62×	64mm/0.70×
(20mm Ring)M.O.D./Magnification	–	–	–	–	–	31mm/0.87×	49mm/0.94×

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