

LINE SCAN
Φ46.0mm IMAGE SIZE
Φ30.0mm IMAGE SIZE (3CCD)

LF Series

- Large format (Image size Φ46.0mm)
- Corresponds to 4K Line Scan Camera
- Low distortion
- Suitable for close distance inspection

Optimized design for machine vision



Model	LM28LF	LM28LF-48	LM35LF	LM35LF-48	LM50LF	LM50LF-48
Focal Length(mm)	28		35		50	
Image Size(mm)	46.0(Φ46)		46.0(Φ46)		46.0(Φ46)	
Iris Range(F-stop)	F2.8~F22		F2.8~F22		F2.8~F22	
Focusing Range(m) (FROM SENSOR)	0.5~∞		0.4~∞		0.4~∞	
Control	Iris		Iris		Iris	
	Focus		Focus		Focus	
Shooting Range at M.O.D.(mm)	424.3×281.1		239.9×160.3		162.9×108.9	
Angle of View	Full size		Full size		Full size	
View (Degrees)	4/3 inch		4/3 inch		4/3 inch	
Resolution(Center, Corner)	160lp/mm, 63lp/mm		160lp/mm, 63lp/mm		160lp/mm, 63lp/mm	
TV Distortion(%)	-0.17		-0.15		-0.04	
Flange Back in Air(mm)	46.5	17.5	46.5	17.5	46.5	17.5
Mount	Nikon F-mount	TFL-II mount	Nikon F-mount	TFL-II mount	Nikon F-mount	TFL-II mount
Filter Thread(mm)	M72×P0.75		M52×P0.75		M52×P0.75	
Size(mm)(∞)	Φ75×98	Φ75×127	Φ57.5×71	Φ57.5×100	Φ57.5×77	Φ57.5×106
Weight(g)	500		430		470	

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CLS Series

- For industrial 3CCD color line scan camera
- Ultra high resolution
- Low chromatic aberration
- Close up lens is available for close distance applications

Model	LM28CLS	LM35CLS	LM50CLS
Format Size(Φ)	57.0	51.0	46.0
Image Size(Φ)	30.0	30.0	30.0
Iris Range(F-stop)	F2.8~F22	F2.8~F22	F2.8~F22
Focusing Range(m)	0.5~∞	0.5~∞	0.5~∞
Control	Iris	Iris	Iris
	Focus	Focus	Focus
Shooting Range at M.O.D.(mm)	317.9(V)	259.1(V)	157.7(V)
Angle of View(Degrees)	55.2(V)	46.1(V)	32.3(V)
Resolution(Center, Corner)	160lp/mm, 63lp/mm	160lp/mm, 63lp/mm	160lp/mm, 63lp/mm
TV Distortion(%)	-0.1	0.06	-0.1
Flange Back in Air(mm)	46.5	46.5	46.5
Mount	Nikon F-mount	Nikon F-mount	Nikon F-mount
Filter Thread(mm)	M72×P0.75	M62×P0.75	M52×P0.75
Size(mm)(∞)	Φ75×108	Φ65×108	Φ58×63.5
Weight(g)	482	480	358

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Model	LM28CLS	LM35CLS	LM50CLS
Focal Length(mm)	28	35	50
Image Size(mm)	30.0(Φ30)	30.0(Φ30)	30.0(Φ30)
Iris Range(F-stop)	F2.8~F22	F2.8~F22	F2.8~F22
Focusing Range(m) (FROM SENSOR)	0.5~∞	0.5~∞	0.5~∞
Control	Iris	Iris	Iris
	Focus	Focus	Focus
Shooting Range at M.O.D.(mm)	317.9(V)	259.1(V)	157.7(V)
Angle of View(Degrees)	55.2(V)	46.1(V)	32.3(V)
Resolution(Center, Corner)	160lp/mm, 63lp/mm	160lp/mm, 63lp/mm	160lp/mm, 63lp/mm
TV Distortion(%)	-0.1	0.06	-0.1
Flange Back in Air(mm)	46.5	46.5	46.5
Mount	Nikon F-mount	Nikon F-mount	Nikon F-mount
Filter Thread(mm)	M72×P0.75	M62×P0.75	M52×P0.75
Size(mm)(∞)	Φ75×108	Φ65×108	Φ58×63.5
Weight(g)	482	480	358

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1/2.5" MEGAPIXEL S-MOUNT LENS (3.2μm)

NEW

- Low distortion
- Wide optical design
- High transmission from VIS to NIR

Model	1	1/1.2	2/3	1/1.8	1/2	1/2.5	1/2.8	1/3
LM3NF	—	—	—	—	—	—	—	—
LM5NF	—	—	—	—	—	—	—	—
LM9NF	—	—	—	—	—	—	—	—

LM3QS28 / 40 / 56 NEW



Model	LM3QS28	LM3QS40	LM3QS56
Focal Length(mm)	3	4	5.6
Image Size	1/2.5	1/2.5	1/2.5
Iris Range(F-stop)	F2.8	F4	F5.6
Focusing Range(m)	0.1~∞	0.1~∞	0.1~∞
Angle of View	1/2.5 inch	1/2.5 inch	1/2.5 inch
View (Degrees)	86.7×70.6	83.3×58.2	76.9×61.6
Resolution(Center, Corner)	160lp/mm, 125lp/mm	160lp/mm, 125lp/mm	160lp/mm, 125lp/mm
TV Distortion(%)	0.02	0.02	0.02
Back Focus in Air(mm)	2.6	2.6	2.6
Mount	S-mount (M12×0.5)	S-mount (M12×0.5)	S-mount (M12×0.5)
Size(mm)(∞)	Φ16×22.3	Φ16×22.3	Φ16×22.3
Weight(g)	6	6	6
Temperature Range	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C

1/3" NF-MOUNT Compact NF-mt. lens Series

- Introducing the lineup of megapixel NF-mount lenses. The compact body and high resolution design will maximize the performance of NF-mount camera.

Model	4/3	1.1	1	1/1.2	2/3	1/1.8	1/2	1/3
LM3NF	—	—	—	—	—	—	—	—
LM5NF	—	—	—	—	—	—	—	—
LM9NF	—	—	—	—	—	—	—	—



Model	LM3NF	LM5NF	LM9NF
Focal Length(mm)	2.7	4.5	9
Image Size(mm)	4.8×3.6(Φ6)	4.8×3.6(Φ6)	4.8×3.6(Φ6)
Iris Range(F-stop)	F1.8~F11	F1.8~F11	F1.8~F11
Focusing Range(m)	0.1~∞	0.1~∞	0.1~∞
Control	Iris	Iris	Iris
	Focus	Focus	Focus
Shooting Range at M.O.D.(mm)	262.7(H)×167.8(V)	122.9(H)×89.9(V)	58.1(H)×43.3(V)
Angle of View(Degrees) 1/3 Inch	102.3×76.7	59.2×45.0	30.2×22.8
Resolution(Center, Corner)	100lp/mm, 60lp/mm	100lp/mm, 60lp/mm	100lp/mm, 60lp/mm
TV Distortion(%)	-7.3	-2.8	-0.6
Back Focus in Air(mm)	7.8	8.1	8.6
Mount	NF-mount	NF-mount	NF-mount
Size(mm)(∞)	Φ21×27	Φ21×31	Φ22×34
Weight(g)	30	35	40
Temperature Range	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C

† Images may differ from the actual product.