

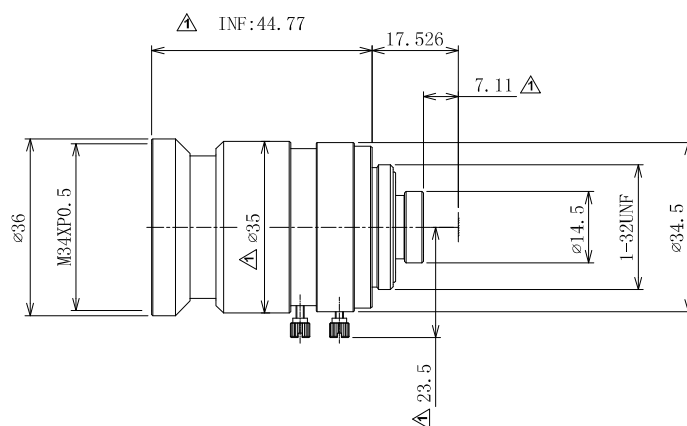
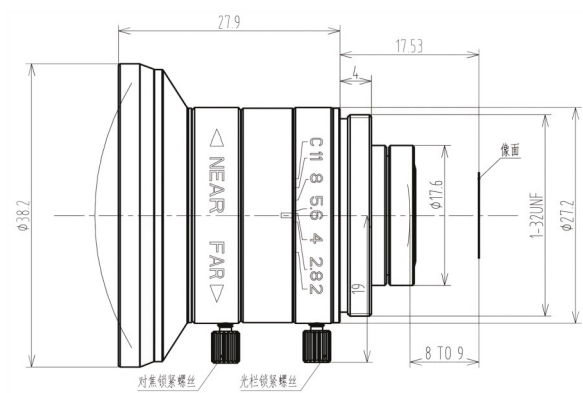
Contrastech 2017

Machine Vision Lenses Catalog



1/1.8" C-Mount Lenses

- Suitable for camera with resolution up to 5 Mega
- 4.0mm, 6.0mm fixed focal length
- Professional MTF Optimization
- Low distortion
- Lockable focus and iris screws
- CCD/CMOS
- High cost-performance ratio



Model No.		LEM0420CBMP5	LEM0616MP5
Mount		C-Mount	C-Mount
Format		1/1.8"	1/1.8"
Focal Length		4mm	6mm
F/No.		F2.0 ~ ∞	F1.6 ~ ∞
Angle FOV	1/1.8"	D:94° H:82.9° V:66.5°	D:71.7° H:60.1° V:46.6°
	1/3"	D:78.2° H:61.1° V:47.5°	D:65.8° H:54.6° V:42.1°
Distortion (TV)		<0.5%	<0.54%
MOD		0.1m	0.1m
Flange Back		17.526mm	17.526mm
Back Focus		8.7mm	7.94mm
Iris		Manual	Manual
Filter Thread		NA	M34 × 0.5
Front/Rear Effective Dia		Front Φ32.6mm Rear Φ7mm	Front Φ21.56mm Rear Φ10.1mm
Dimension		Φ 38.2 × 27.9mm	Φ 36 × 44.7mm

Fisheye C-Mount Lens

The Fisheye C-Mount lens Contrastech LEM01414FE is suitable for common sensors up to 5 megapixel with an image format of 1/2 inch. It is characterized by a particularly high light intensity.

Model No.	LEM01414FE
Mount	C-Mount
Format	1/2"
Focal Length	1.4mm
F/No.	F1.4
M.O.D.	0.08 m
Back Focal	6.81 mm
Angle of View	D:185° H:185° V:185°
Megapixel	5MP
IR Cut	corrected
Distortion	0.25%
Image Circle	4.8
Weight	116 g
Iris	manual
Focus	manual
Type	Fisheye



HOT!

2/3" C-Mount Lenses

2/3"

M-Iris

8MP



Model No.		LEM0814CBMP8	LEM1216CBMP8	LEM1614CBMP8
Mount		C-Mount	C-Mount	C-Mount
Format		2/3"	2/3"	2/3"
Focal Length		8mm	12mm	16mm
F/No.		F1.4 ~ 16	F1.6 ~ 16	F1.4 ~ 16
Angle FOV (D×H×V)	2/3"	D:61.7° H:56.3° V:43.7°	D:46.6° H:39° V:30.3°	D:37.3° H:30.3° V:23°
	1/2"	D:51.9° H:42.5° V:32.4°	D:35.7° H:29.48° V:22.8°	D:27.8° H:22.3° V:16.8°
Distortion (TV)		<0.1%	<0.8%	<0.1%
MOD		0.1m	0.15m	0.3m
Flange Back		17.526mm	17.526mm	17.526mm
Back Focus		10.74mm	13mm	12.7mm
Iris		Manual	Manual	Manual
Filter Thread		M37×0.5	M30.5× 0.5	M30.5× 0.5



Model No.		LEM2514CBMP8	LEM3514CBMP8	LEM5014CBMP8
Mount		C-Mount	C-Mount	C-Mount
Format		2/3"	2/3"	2/3"
Focal Length		25mm	35mm	50mm
F/No.		F1.4 ~ 16	F1.4 ~ ∞	F1.4 ~ ∞
Angle FOV (D×H×V)	2/3"	D:24.6° H:20° V:15°	D:17.3° H:13.9° V:10.4°	D:13.04° H:10.46° V:7.86°
	1/2"	D:18.2° H:14.6° V:11°	D:12.6° H:10.1° V:7.6°	D:9.52° H:7.6° V:5.27°
Distortion (TV)		<0.2%	<0.8%	<0.8%
MOD		0.3m	0.2m	0.3m
Flange Back		17.526mm	17.526mm	17.526mm
Back Focus		12.25mm	8.7mm	12.4
Iris		Manual	Manual	Manual
Filter Thread		M30.5×0.5	M37× 0.5	M37× 0.5

2/3" C-Mount Lenses: Technical Data

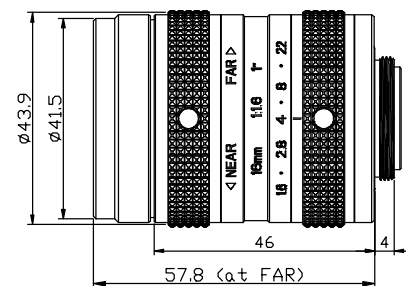
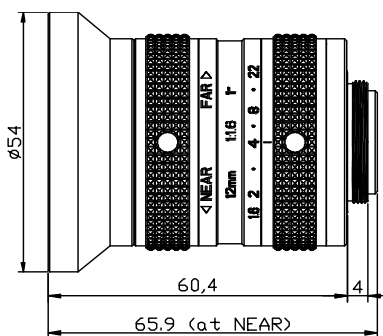
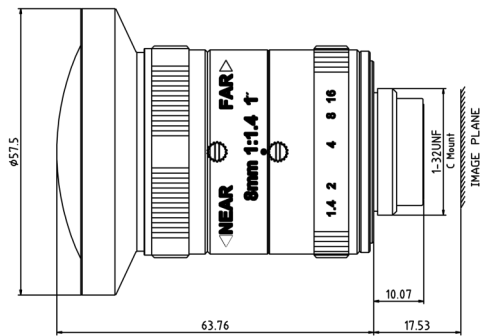


1" C-Mount Lenses

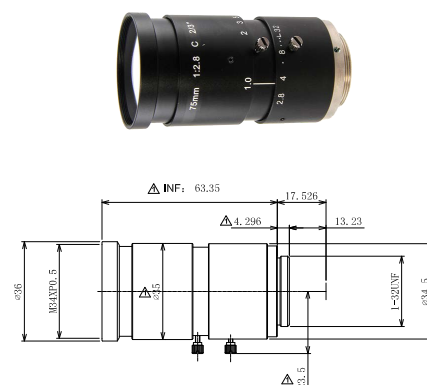
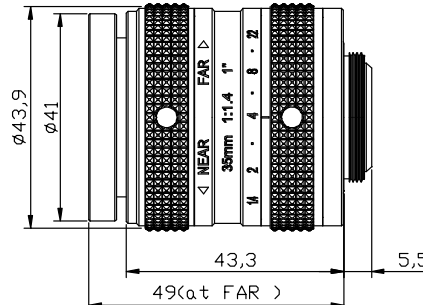
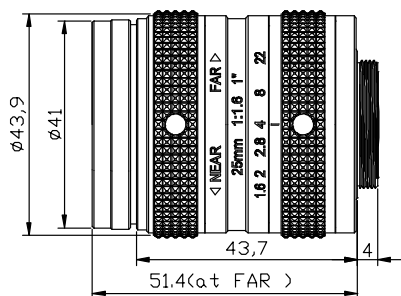
1"

M-Iris

5MP



Model No.		LEM0814CE-H1	LEM1216CE-H1	LEM1616CE-H1
Mount		C-Mount	C-Mount	C-Mount
Format		1"	1"	1"
Focal Length		8mm	12mm	16mm
F/No.		F1.4 ~ 16	F1.6 ~ 22	F1.6 ~ 22
Angle FOV (D×H×V)	1"	88°×70.5°×53°	68.8°×57.1°×44.1°	54.3°×44.2°×33.5°
	2/3"	-	50.0°×40.6°×30.9°	38.3°×30.8°×23.2°
Distortion	1"	<1.5%	-2.88%@y=8mm	-3.73%@y=8mm
	2/3"	-	-1.79%@y=5.5mm	-1.98%@y=5.5mm
Focusing Range		0.2m ~ ∞	1.0m ~ ∞	1.0m ~ ∞
Back Focus		7.79mm	10.74mm	12.17mm
Filter Thread		-	M37×0.5	M37×0.5
Weight		220g	193g	202g



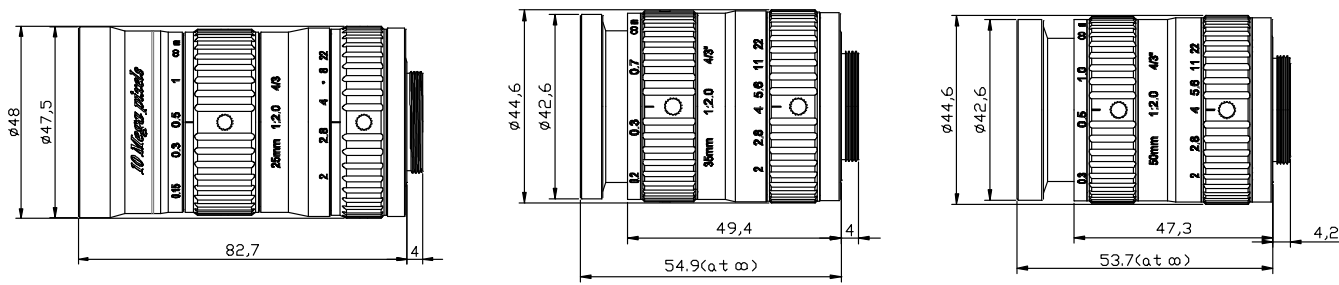
Model No.		LEM2516CE-H1	LEM3514CE-H1	LEM7528MP5
Mount		C-Mount	C-Mount	C-Mount
Format		1"	1"	1"
Focal Length		25mm	35mm	75mm
F/No.		F1.6 ~ 22	F1.4 ~ 22	F2.8
Angle FOV (D×H×V)	1"	36.2°×29.0°×21.8°	25.7°×20.7°×15.6°	11.4°×9.2°×4.8°
	2/3"	25.0°×20.0°×15.0°	17.8°×14.3°×10.7°	7.9°×6.3°×18.8°
Distortion	1"	-2.06%@y=8mm	-0.27%@y=8mm	<-0.07%
	2/3"	-0.98%@y=5.5mm	-0.06%@y=5.5mm	-
Focusing Range		1.0m ~ ∞	1.0m ~ ∞	0.6m ~ ∞
Back Focus		12.69mm	12.83mm	17.69mm
Filter Thread		M39×0.5	M39×0.5	M34×0.5
Weight		157g	155g	

4/3" C-Mount Lenses

4/3"

M-Iris

10MP



Model No.		LEM2520CD-H2	LEM3520CD-H2	LEM5020CD-H2
Mount		C-Mount	C-Mount	C-Mount
Format		4/3"	4/3"	4/3"
Focal Length		25mm	35mm	50mm
F/No.		F2.0 ~ 22	F2.0 ~ 22	F2.0 ~ 22
Angle FOV (D×H×V)	4/3"	49.7°×40.6°×31°	36.6°×29.6°×22.4°	25.9°×20.9°×15.7°
	1"	35.7°×28.8°×21.8°	25.9°×20.8°×15.7°	18.2°×14.6°×11°
Distortion	4/3"	-0.66%@y=11.5mm	-0.56%@y=11.5mm	-0.14%@y=11.5mm
	1"	-0.50%@y=8.0mm	-0.43%@y=8.0mm	-0.05%@y=8.0mm
Focusing Range		0.15m ~ ∞	0.2m ~ ∞	0.3m ~ ∞
Back Focus		22.43mm	18.65mm	20.29mm
Filter Thread		M46×0.75	M40.5×0.5	M40.5×0.5
Weight		251g	173g	170g

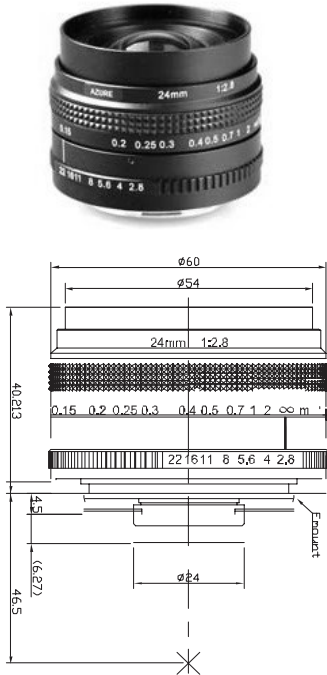


F/T Mount Lenses

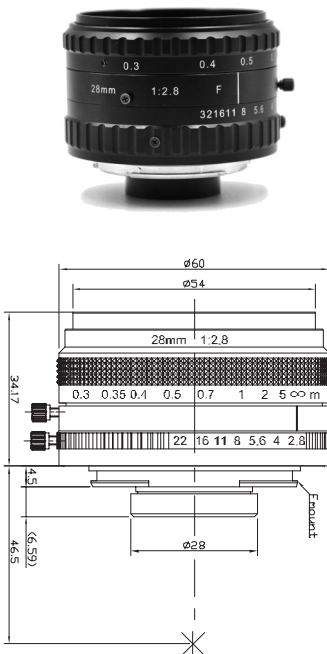
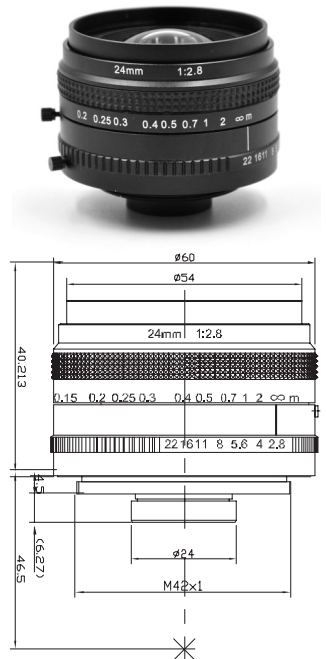
43mm

M-Iris

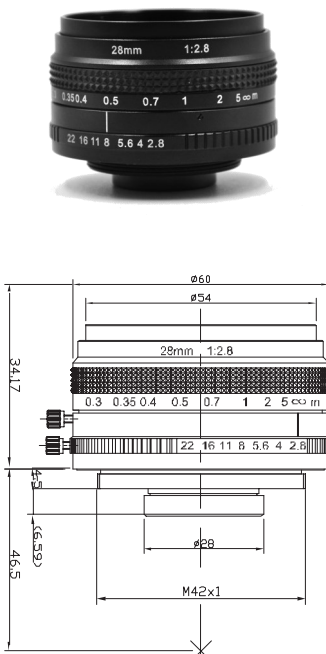
5MP



Model No.	LHF2428MP5	LHT2428MP5
Resolution	30lp/mm(5MP)	30lp/mm(5MP)
Format	43mm	43mm
Mount	F	M42 × 1(T)
Focal Length	24mm	24mm
F/No.	F2.8~F22	F2.8~F22
Back Focus	36mm	36mm
Iris Type	Manual Iris	Manual Iris
Angle of View(D)	84°	84°
Distortion	<-4%	<-4%
Focusing Range	∞ ~ 0.15m	∞ ~ 0.15m
Coating Wavelength	400~950nm	400~950nm
Filter Thread	M52 × 0.75	M52 × 0.75
Dimension	Φ 60 × 40.21mm	Φ 60 × 40.21mm
Weight	227.5g	200g



Model No.	LHF2828MP5	LHT2828MP5
Resolution	30lp/mm(5MP)	30lp/mm(5MP)
Format	43mm	43mm
Mount	F	M42 × 1(T)
Focal Length	28mm	28mm
F/No.	F2.8~F22	F2.8~F22
Back Focus	35.7mm	35.7mm
Iris Type	Manual Iris	Manual Iris
Angle of View(D)	74°	74°
Distortion	<-3%	<-3%
Focusing Range	∞ ~ 0.3m	∞ ~ 0.3m
Coating Wavelength	400~950nm	400~950nm
Filter Thread	M52 × 0.75	M52 × 0.75
Dimension	Φ 60 × 34.17mm	Φ 60 × 34.17mm
Weight	199.5g	173.5g

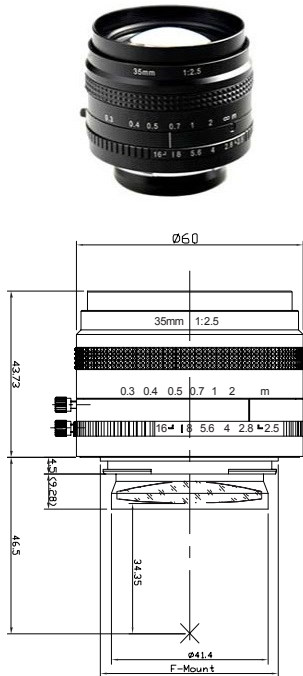


F/T Mount Lenses

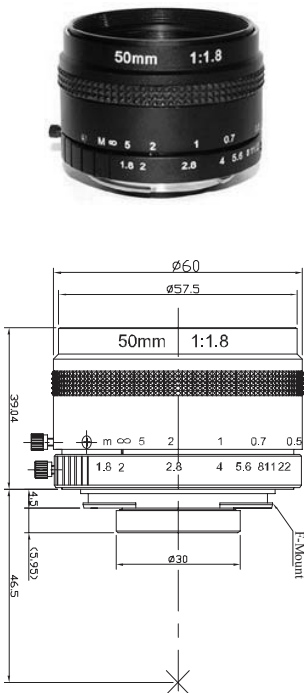
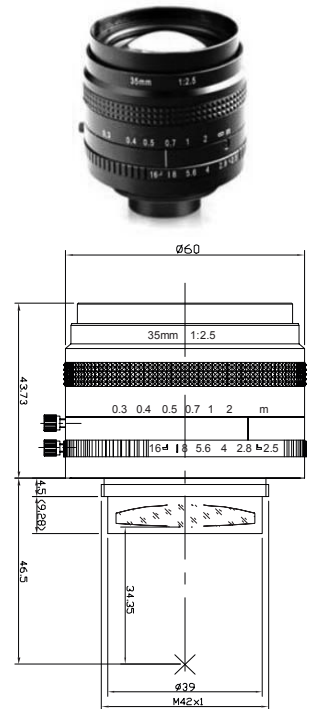
43mm

M-Iris

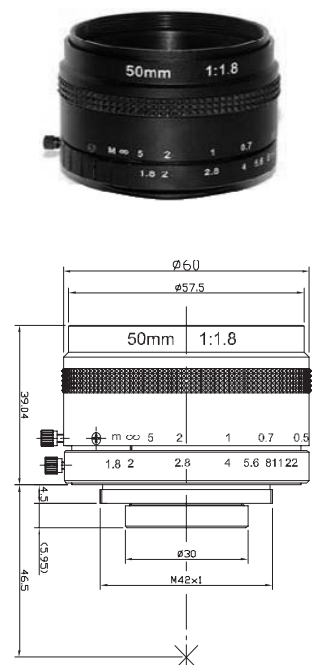
5MP



Model No.	LHF3525MP5	LHT3525MP5
Resolution	30lp/mm(5MP)	30lp/mm(5MP)
Format	43mm	43mm
Mount	F	M42 × 1(T)
Focal Length	35mm	35mm
F/No.	F2.5~F22	F2.5~F22
Back Focus	34.35mm	34.35mm
Iris Type	Manual Iris	Manual Iris
Angle of View(D)	52.3°	52.3°
Distortion	<-3%	<-3%
Focusing Range	∞ ~ 0.3m	∞ ~ 0.3m
Coating Wavelength	400~950nm	400~950nm
Filter Thread	M52 × 0.75	M52 × 0.75
Dimension	Φ 60 × 43.73mm	Φ 60 × 43.73mm
Weight	273g	253g



Model No.	LHF5018MP5	LHT5018MP5
Resolution	30lp/mm(5MP)	30lp/mm(5MP)
Format	43mm	43mm
Mount	F	M42 × 1(T)
Focal Length	50mm	50mm
F/No.	F1.8~F22	F1.8~F22
Back Focus	36.33mm	36.33mm
Iris Type	Manual Iris	Manual Iris
Angle of View(D)	45°	45°
Distortion	<-1%	<-1%
Focusing Range	∞ ~ 0.4m	∞ ~ 0.4m
Coating Wavelength	400~950nm	400~950nm
Filter Thread	M52 × 0.75	M52 × 0.75
Dimension	Φ 60 × 39.04mm	Φ 60 × 39.04mm
Weight	230g	210g

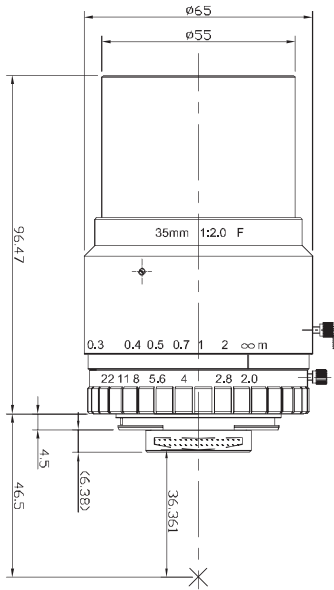


F/T Mount Lenses

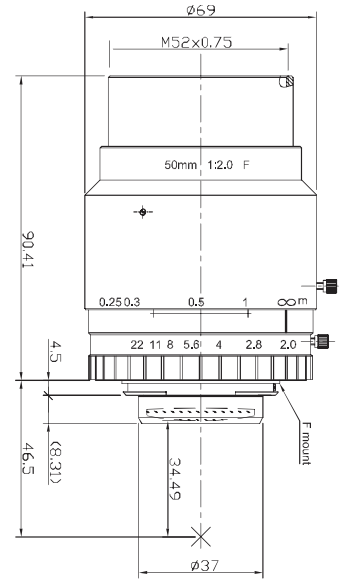
43mm

M-Iris

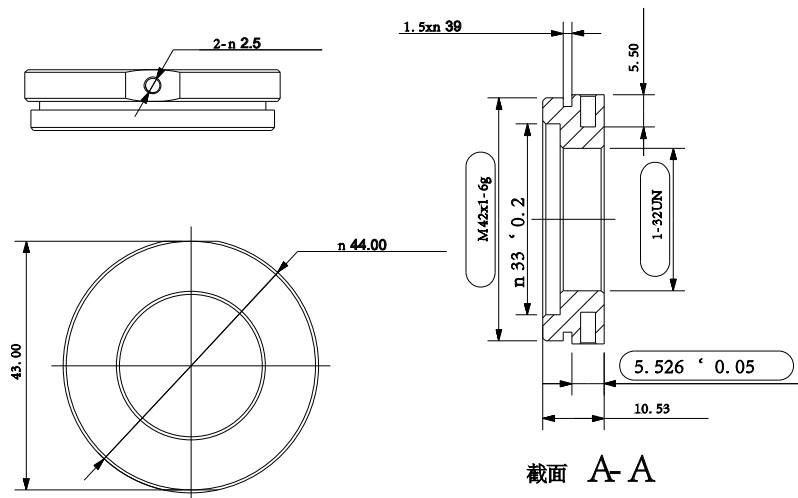
10MP



Model No.	LHF3520MP10	LHF5020MP10
Resolution	50lp/mm(10MP)	50lp/mm(10MP)
Format	43mm	43mm
Mount	F	M42 × 1(T)
Focal Length	35mm	35mm
F/No.	F2.0~F22	F2.0~F22
Back Focus	36.36mm	34.49mm
Iris Type	Manual Iris	Manual Iris
Angle of View(D)	71°	44.7°
Distortion	<-0.25%	<-0.15%
Focusing Range	∞ ~ 0.3m	∞ ~ 0.25m
Coating Wavelength	400~950nm	400~950nm
Filter Thread	M52 × 0.75	M52 × 0.75
Dimension	Φ 69 × 96.47mm	Φ 71 × 90.4mm
Weight	611g	732g



M42(T) to C Mount Adapter



M12 Mount Lenses

Lenses with a M12x0.5mm thread are officially called S-Mount lenses, though “M12 lenses”, “M12x0.5 lenses” or simply “board lenses” is more commonly used, as they are often used with board cameras. They are the most common “mini lenses”.

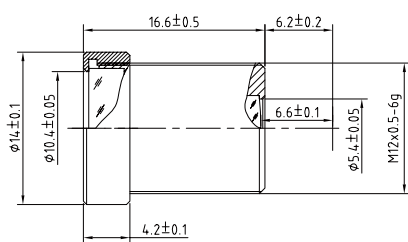


1MP Board Lens

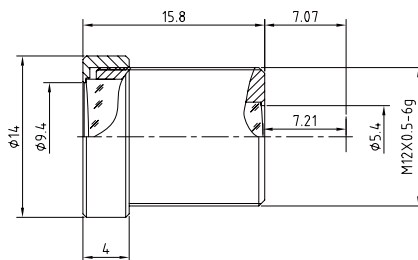
Model No.	Mount	Format	Focal Length	F/No.	M.O.D	Back Focal	Angle Of View	Megapixel	Iris	Type
LEM-03618(i)-M12-MP	M12 × 0.5	1/3"	3.6mm	F1.8	0.2m	6.59mm	100.2°×77°×54°	1-2MP	Fixed	Standard
LEM-04218(i)-M12-MP	M12 × 0.5	1/3"	4.2mm	F1.8	0.2m	7.21mm	89°×71°×49.5°	1-2MP	Fixed	Standard
LEM-0618(i)-M12-MP	M12 × 0.5	1/3"	6.0mm	F1.8	0.2m	8.75mm	60°×48°×34.5°	1-2MP	Fixed	Standard
LEM-0818(i)-M12-MP	M12 × 0.5	1/3"	8.0mm	F1.8	0.2m	5.4mm	45°×35.5°×26°	1-2MP	Fixed	Standard
LEM-1218(i)-M12-MP	M12 × 0.5	1/3"	12.0mm	F1.8	0.2m	6.54mm	28.4°×22.7°×17.2°	1-2MP	Fixed	Standard

Note: The built-in IR cut filter is optional for all the above lenses.

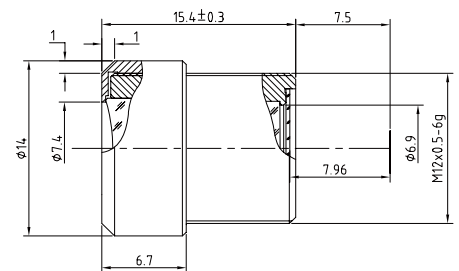
Dimensions



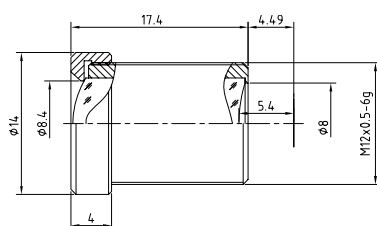
LEM-03618(i)-M12-MP



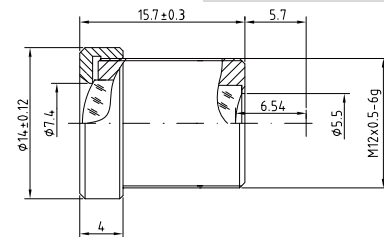
LEM-04218(i)-M12-MP



LEM-0618(i)-M12-MP



LEM-0818(i)-M12-MP



LEM-1218(i)-M12-MP

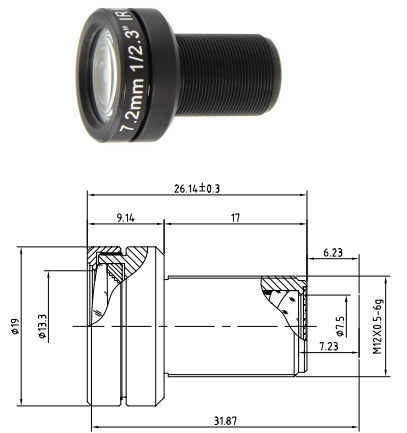
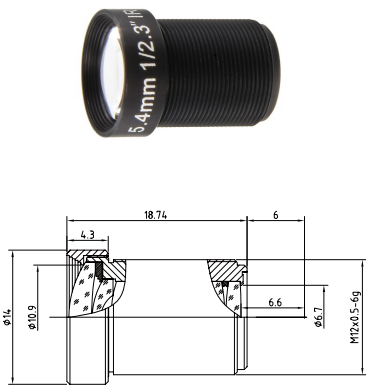
3MP Board Lens

Model No.	Mount	Format	Focal Length	F/No.	M.O.D	Back Focal	Angle Of View	Megapixel	Iris	Type
LEM-04518(i)-M12-MP3	M12 × 0.5	1/1.8"	4.5mm	F1.8	0.1m	6.99mm	90°×78°×62°	3MP	Fixed	Standard
LEM-05518(i)-M12-MP3	M12 × 0.5	1/1.8"	5.5mm	F1.8	0.2m	6.87mm	76°×64.5°×51°	3MP	Fixed	Standard
LEM-0818(i)-M12-MP3	M12 × 0.5	1/1.8"	8mm	F1.8	0.2m	9.82mm	60°×50°×38°	3MP	Fixed	Standard
LEM-1218(i)-M12-MP3	M12 × 0.5	1/1.8"	12mm	F1.8	0.2m	6.7mm	42°×33.6°×25.5°	3MP	Fixed	Standard
LEM-1618(i)-M12-MP3	M12 × 0.5	1/2"	16mm	F1.8	0.35m	7.2mm	27.8°×22.3°×16.8°	3MP	Fixed	Standard
LEM-2524(i)-M12-MP3	M12 × 0.5	1/2"	25mm	F2.4	0.4m	10.36mm	18°×14.3°×11°	3MP	Fixed	Standard
LEM-3525(i)-M12-MP3	M12 × 0.5	1/2"	35mm	F2.5	0.4m	14.25mm	13.1°×11°×7.8°	3MP	Fixed	Standard
LEM-5025(i)-M12-MP3	M12 × 0.5	1/2"	50mm	F2.5	0.5m	18.38mm	9.3°×7.3°×5.5°	3MP	Fixed	Standard

Note: The built-in IR cut filter is optional for all the above lenses.

10MP Board Lens

Model No.	LEM-05425(i)-M12-MP10	LEM-07224(i)-M12-MP10
Mount	M12 × 0.5	M12 × 0.5
Format	1/2.3"	1/2.3"
Focal Length	5.4mm	7.2mm
F/No.	F2.5	F2.4
M.O.D.	0.2m	0.3m
Back Focal	6.6mm	7.23mm
Angle of View	D:70° H:60° V:46°	D:57° H:47° V:37°
Megapixels	10MP	10MP
Built-in IR Cut	Optional	Optional
Iris	Manual	Manual
Type	Standard	Standard



Fisheye Board Lens

Model No.	Format	Image Height	Dimension	Focal Length	F/No.	TTL	Angle	Mount
VT-LEM0220FE-i-M12	2/3"	6.4	30.5*25.2mm	2mm	2.0	31.77	195°	M12 × 0.5
VT-LEM019828FE-i-M12	1/1.8"	5.6	25*23.59mm	1.98mm	2.8	29.11	180°	M12 × 0.5
VT-LEM014520FE-i-M12	1/2.3"	4.6	26*24.5mm	1.45mm	2.0	28.4	190°	M12 × 0.5
VT-LEM014520FE-M12 *	1/2.3"	4.6	26*24.5mm	1.45mm	2.0	28.4	190°	M12 × 0.5
VT-LEM01528FE-i-M12	1/2.3"	4.3	24*22.3mm	1.5mm	2.8	25.85	180°	M12 × 0.5
VT-LEM013720FE-i-M12	1/2.5"	4.15	28*28.6mm	1.37mm	2.0	34.14	183°	M12 × 0.5
VT-LEM01628FE-i-M12	1/2.5"	4.1	22*29.8mm	1.6mm	2.8	29.8	180°	M12 × 0.5
VT-LEM012520FE-i-M12	1/2.8"	3.93	15*9.97mm	1.25mm	2.0	11.8	190°	M12 × 0.5
VT-LEM010524FE-i-M12	1/3"	3.46	26*21.9mm	1.05mm	2.4	24.51	200°	M12 × 0.5
VT-LEM012221FE-i-M12	1/3"	4.8	14*10.38mm	1.22mm	2.1	13.6	184°	M12 × 0.5
VT-LEM012520FE-i-M12	1/3"	3.44	25*28.6mm	1.25mm	2.0	34.88	185°	M12 × 0.5
VT-LEM011920FE-i-M12	1/3.2"	3.24	25*26.2mm	1.19mm	2.0	35.21	185°	M12 × 0.5
VT-LEM012721FE-i-M12	1/4"	2.816	14*13.32mm	1.27mm	2.1	16.85	185°	M12 × 0.5
VT-LEM01423FE-i-M12	1/4"	3.08/4.05	14*9.8mm	1.4mm	2.3	11.55	113/170°	M12 × 0.5

* With built-in IR cut filter.