



Lenses

SPECIFICATIONS OF M12, CS, AND C-MOUNT LENSES
OFFERED ALONG WITH KUROKESU CAMERAS

DATASHEET



KUROKESU

L017-4.3-M12

Description

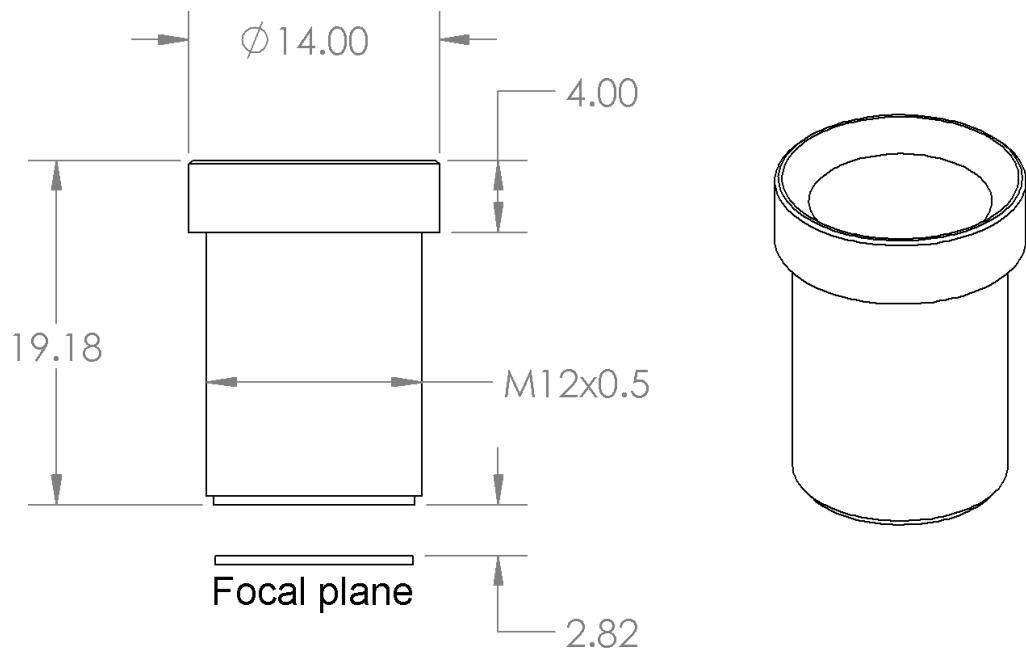
4.3mm 14MP Low Distortion lens, with M12 mount, IR Cut, 1/2.3"



Specifications

Focal Length	4.3mm
Aperture	f/3.0
Image Size	1/2.3"
Angle of View	D: 83°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.2m
Distortion	<-1.2%
Back focal length	3.62mm
External Dimensions	<ul style="list-style-type: none">• D=14mm• L=19.18mm
AR coating	Yes
Net Weight	8g

Dimensions



L018-5-M12

Description

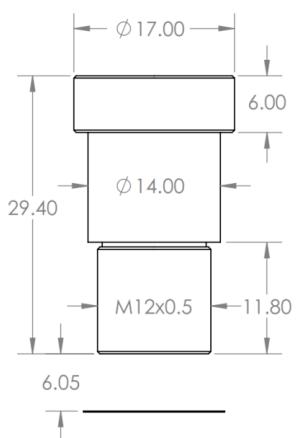
5mm M12 12M lens



Specifications

Focal Length	5mm
Aperture	f/1.7
Image Size	14.9mm (1/1.7")
Angle of View	<ul style="list-style-type: none">• D: 114.4°• H: 87°• V: 61.8°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.15m
Back focal length	6.39mm
External Dimensions	<ul style="list-style-type: none">• D=17mm• L=24.9mm
AR coating	Yes
Net Weight	15g

Dimensions



L019-3.2-M12

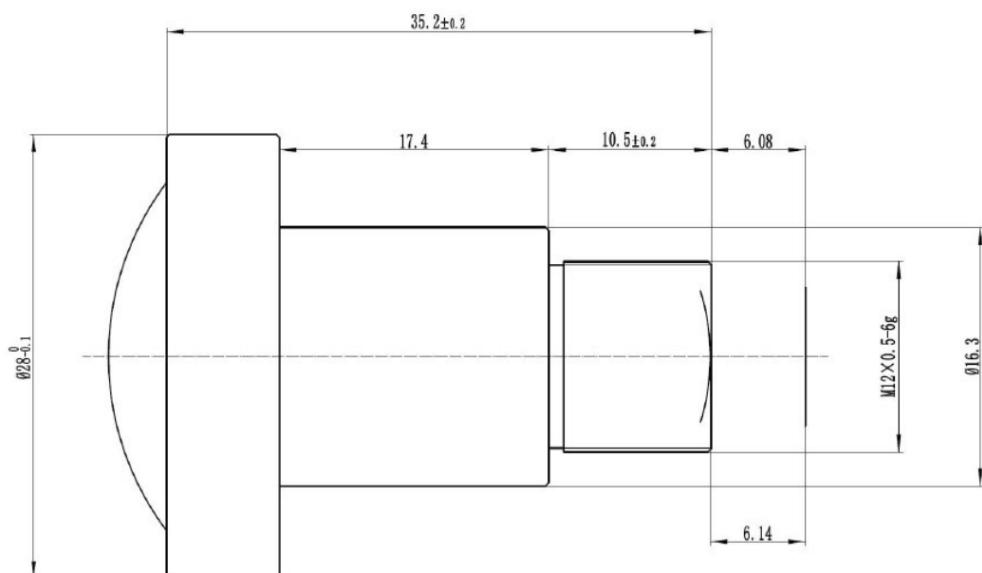
Description

3.2mm M12 lens

Specifications

Focal Length	3.2mm
Aperture	f/2.0
Image Size	1/1.7"
Angle of View (1/1.8")	160° x 131° x 99°
Mount Type	M12
Minimum Object Distance	0.3m
Back Focal Length	6.08mm
External Dimensions	<ul style="list-style-type: none"> • D=28mm • L=38.9mm
Net Weight	25g
Rated sensor resolution	12M

Dimensions



L044-16-M12

Description

16mm M12 lens



Specifications

Focal Length	16mm
Rated resolution	5M
Aperture	f/1.8
Image Size	1/1.2"
Angle of View	D: 28.9°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.3m
CRA	≤17.3°
Back focal length	5.75mm
External Dimensions	<ul style="list-style-type: none">• D=14mm• L=16mm
Net Weight	6g

Dimensions

TBD

L045-25-M12

Description

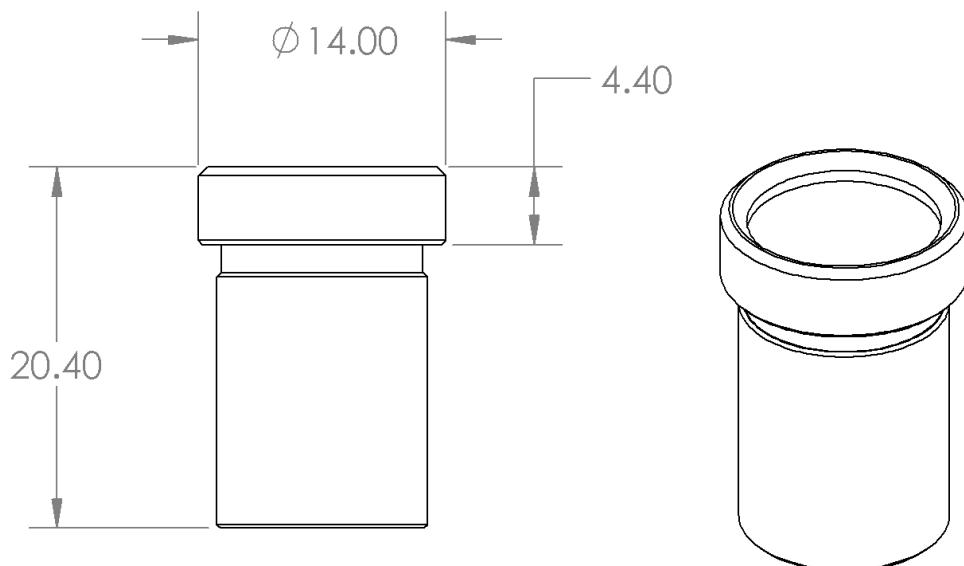
25mm M12 low distortion lens



Specifications

Focal Length	25mm
Aperture	f/1.8
Image Size	1/1.2"
Angle of View	H: 15.04°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.3m
CRA	≤7.4°
Distortion	<1.1%
Back focal length	6.1mm
External Dimensions	<ul style="list-style-type: none">• D=14mm• L=20.4mm
AR coating	Yes
Net Weight	6g

Dimensions



L046-35-M12

Description

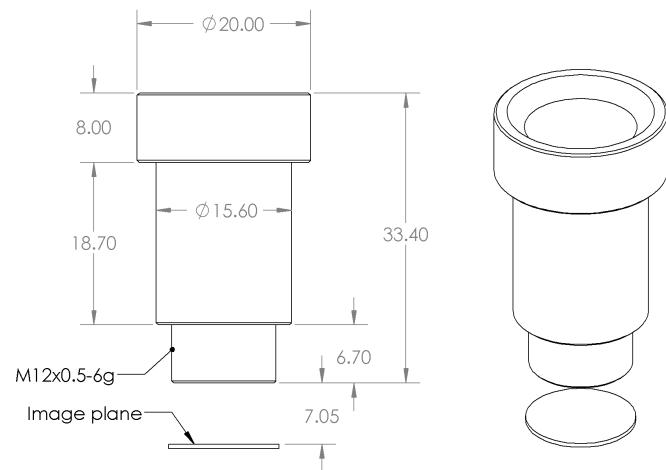
35mm M12 low distortion lens



Specifications

Focal Length	35mm
Aperture	f/2.5
Image Size	1/2"
Angle of View	H: 11.0°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.3m
Back focal length	14.25mm
External Dimensions	<ul style="list-style-type: none">• D=20mm• L=33.4mm
Net Weight	37g

Dimensions



L049-50-M12

Description

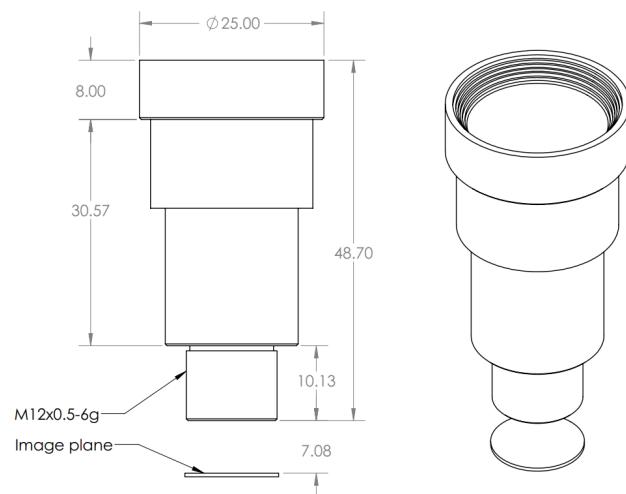
50mm M12 low distortion lens



Specifications

Focal Length	50mm
Aperture	f/2.5
Image Size	1/2"
Angle of View	H: 7.3°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.1m
Back focal length	17.18mm
External Dimensions	<ul style="list-style-type: none">• D=25mm• L=48.8mm
Net Weight	37g

Dimensions



L059-FZA-2.8Z12-CS

Description

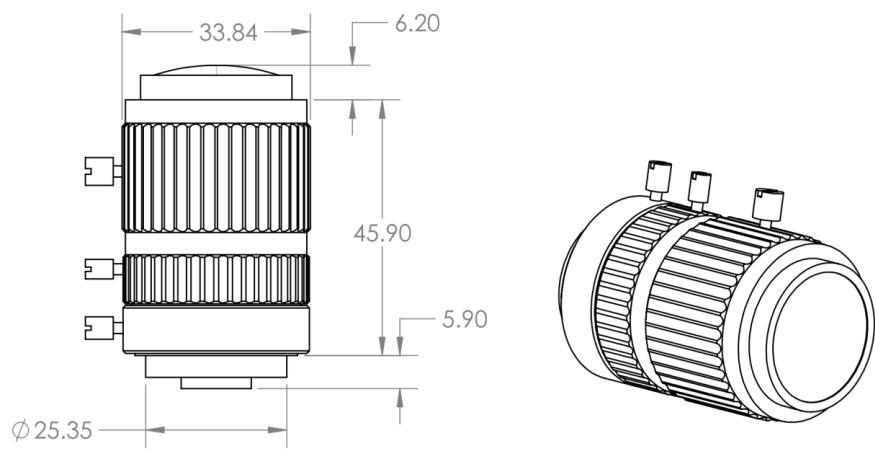
2.8-12mm CS manual zoom lens



Specifications

Focal Length	2.8-12mm
Aperture	f/1.6
Image Size	1/2.7"
Angle of View	<ul style="list-style-type: none">Wide: 137.8° x 102.6° x 74.3°Tele: 37.2° x 29.9° x 22.6°
Mount Type	CS
Minimum Object Distance	0.3m
Operation Mode	<ul style="list-style-type: none">Iris: Manual with LockFocus: Manual with LockZoom: Manual with Lock
External Dimensions	<ul style="list-style-type: none">D=33.7mmL=57.83mm
AR coating	Yes
Net Weight	75g

Dimensions



L058-FZA-5Z50-CS

Description

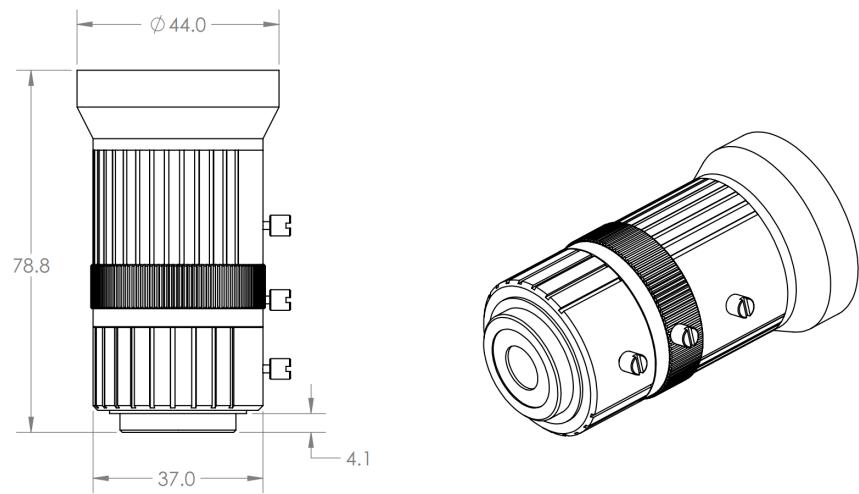
5-50mm CS manual zoom lens



Specifications

Focal Length	5-50mm
Aperture	f/1.4
Image Size	1/2.7"
Angle of View	H: 51°-6°
Mount Type	CS
Minimum Object Distance	1.2m
Back Focal Length	8.1mm
Operation Mode	<ul style="list-style-type: none"> • Iris: Manual with Lock • Focus: Manual with Lock • Zoom: Manual with Lock
External Dimensions	<ul style="list-style-type: none"> • D=44mm • L=79mm
AR coating	Yes
Net Weight	172g

Dimensions



L064-2.1-M12

Description

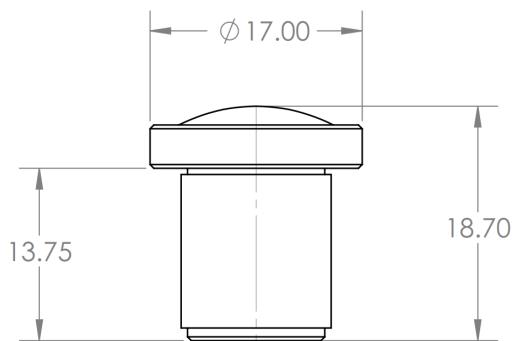
2.1mm M12 wide angle fixed focus lens



Specifications

Focal Length	2.1mm
Aperture	f/1.8
Image Size	6.0mm
Angle of View	<ul style="list-style-type: none">• D: 170°• H: 130°• V: 96°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.2m
Back focal length	6.25mm
External Dimensions	<ul style="list-style-type: none">• D=17mm• L=18.7mm
AR coating	Yes
Net Weight	6g

Dimensions



L067-FZA-12Z120-C

Description

12-120mm CS manual zoom lens



Specifications

Focal Length	12-120mm
Aperture	f/1.8
Image Size	1/1.8"
Angle of View	H: 39° - 2.5°
Mount Type	C
Minimum Object Distance	0.5m
Back focal length	17.53mm
Operation Mode	<ul style="list-style-type: none"> • Iris: Manual with Lock • Focus: Manual with Lock • Zoom: Manual with Lock
External Dimensions	<ul style="list-style-type: none"> • D=48mm • L=97mm
AR coating	Yes
Net Weight	272g

L072-1.15-M12

Description

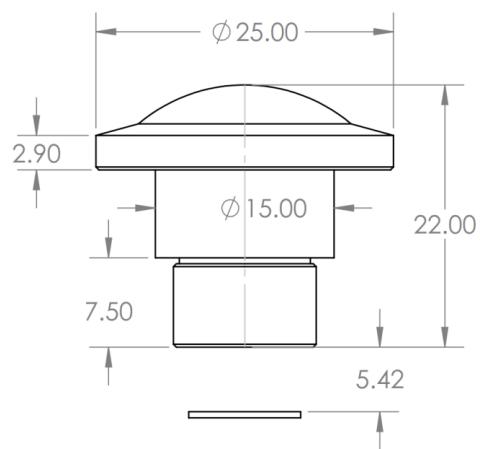
1.15mm M12 fisheye lens



Specifications

Focal Length	1.15mm
Aperture	f/2.0
Image Size	1.27"
Angle of View	<ul style="list-style-type: none">• D: 220°• H: 220°• V: 220°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.3m
Back focal length	5.42mm
External Dimensions	<ul style="list-style-type: none">• D=25mm• L=22mm
AR coating	Yes
Net Weight	15g

Dimensions



L078-2.78-M12

Description

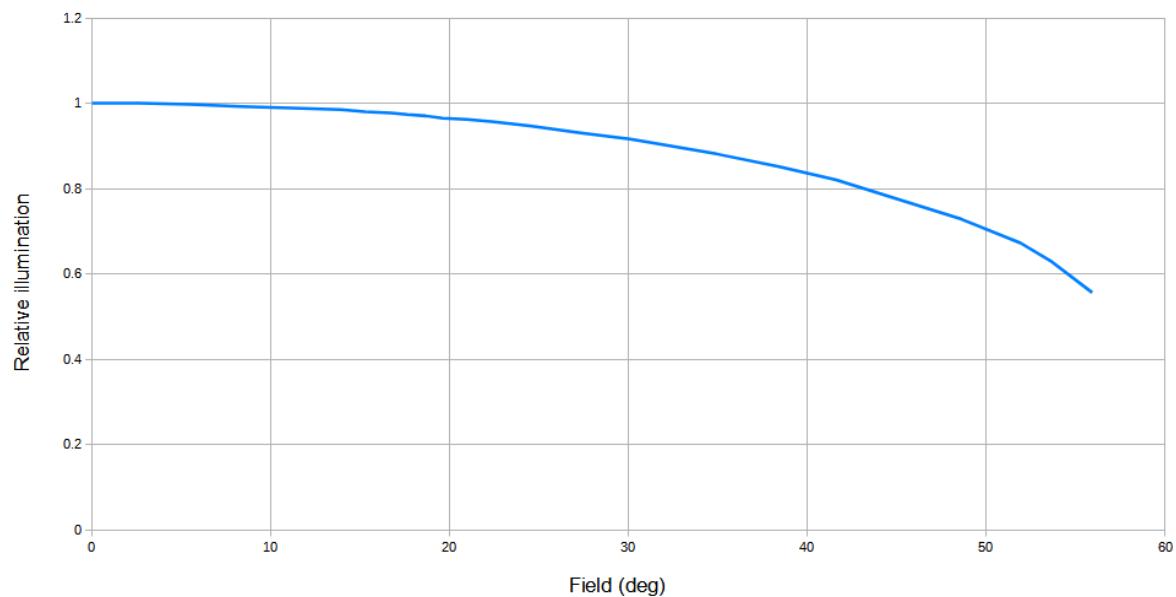
2.78mm M12 wide angle low distortion fixed focus lens



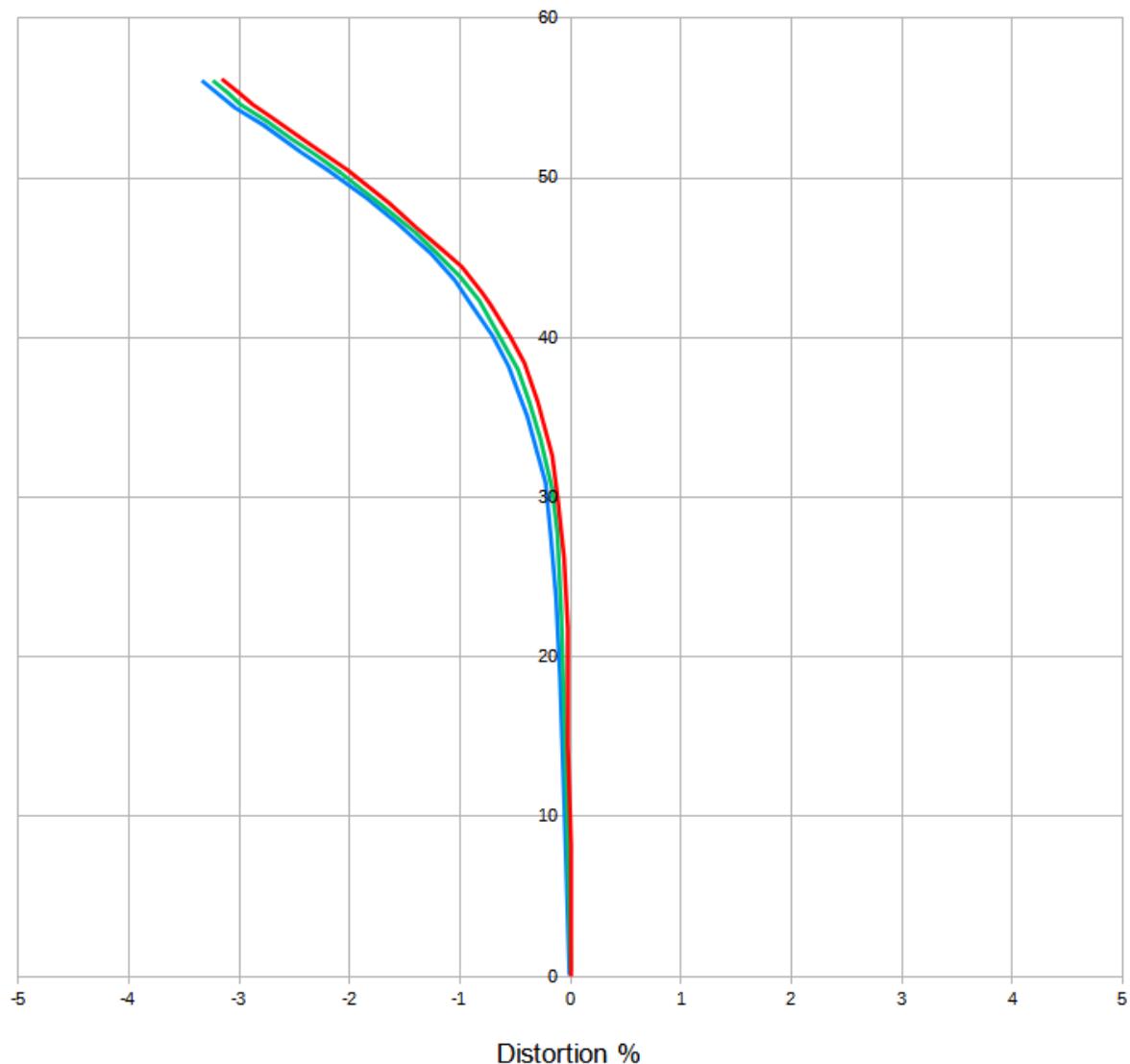
Specifications

Focal Length	2.78mm
Aperture	f/2.2
Image Size	10.16mm [1/2.5"]
Angle of View	<ul style="list-style-type: none">• D: 112°• H: 100°• V: 80°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.2m
Distortion	<-3%
CRA	<19°
Back Focal Length	4.92mm
Flange Back Length	3.74mm
External Dimensions	<ul style="list-style-type: none">• D=18mm• L=18.36mm
AR coating	Yes
Net Weight	8g

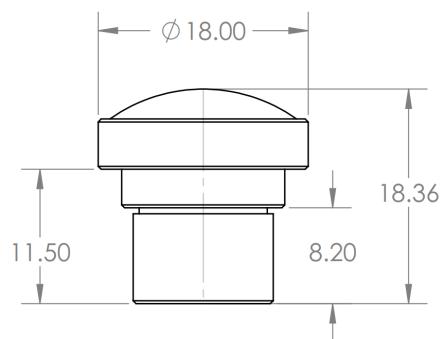
Relative illumination



Distortion



Dimensions



L079-3.04-M12

Description

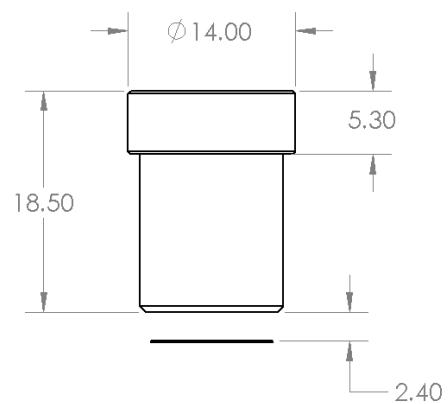
3.04mm M12 wide angle low distortion fixed focus lens (5M)



Specifications

Focal Length	3.04mm
Aperture	f/4.0
Image Size	[1/2.5"]
Angle of View	D: 102°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.2m
Distortion	<1%
Flange Back Length	2.4mm
External Dimensions	<ul style="list-style-type: none">• D=14mm• L=18.5mm
Net Weight	8g

Dimensions



L083-3.82-M12

Description

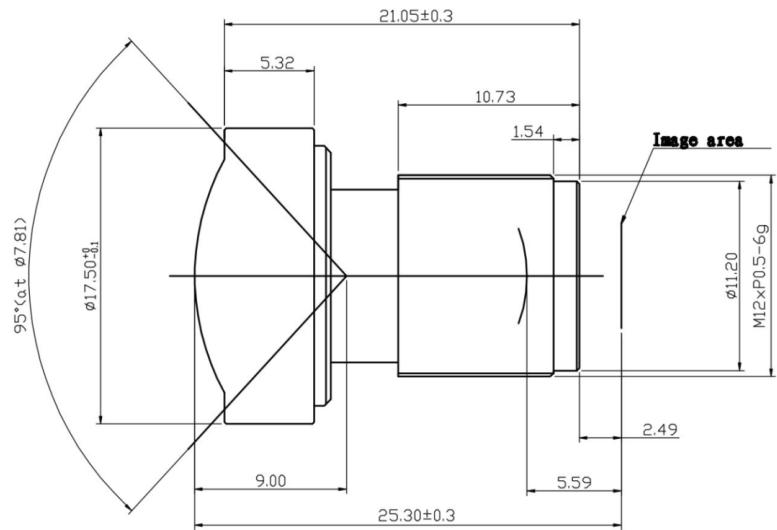
3.8mm low distortion M12 lens



Specifications

Focal Length	3.8mm
Aperture	f/2.8
Image Size	1/2.3"
Angle of View (1/1.8")	95° x 82° x 65°
Mount Type	M12
Minimum Object Distance	0.15m
TV Distortion	≤2.8%
Back Focal Length	5.59mm
External Dimensions	<ul style="list-style-type: none">• D=17.5mm• L=21.5mm
Net Weight	9g
Rated sensor resolution	16M

Dimensions



L098-1.1-M12

Description

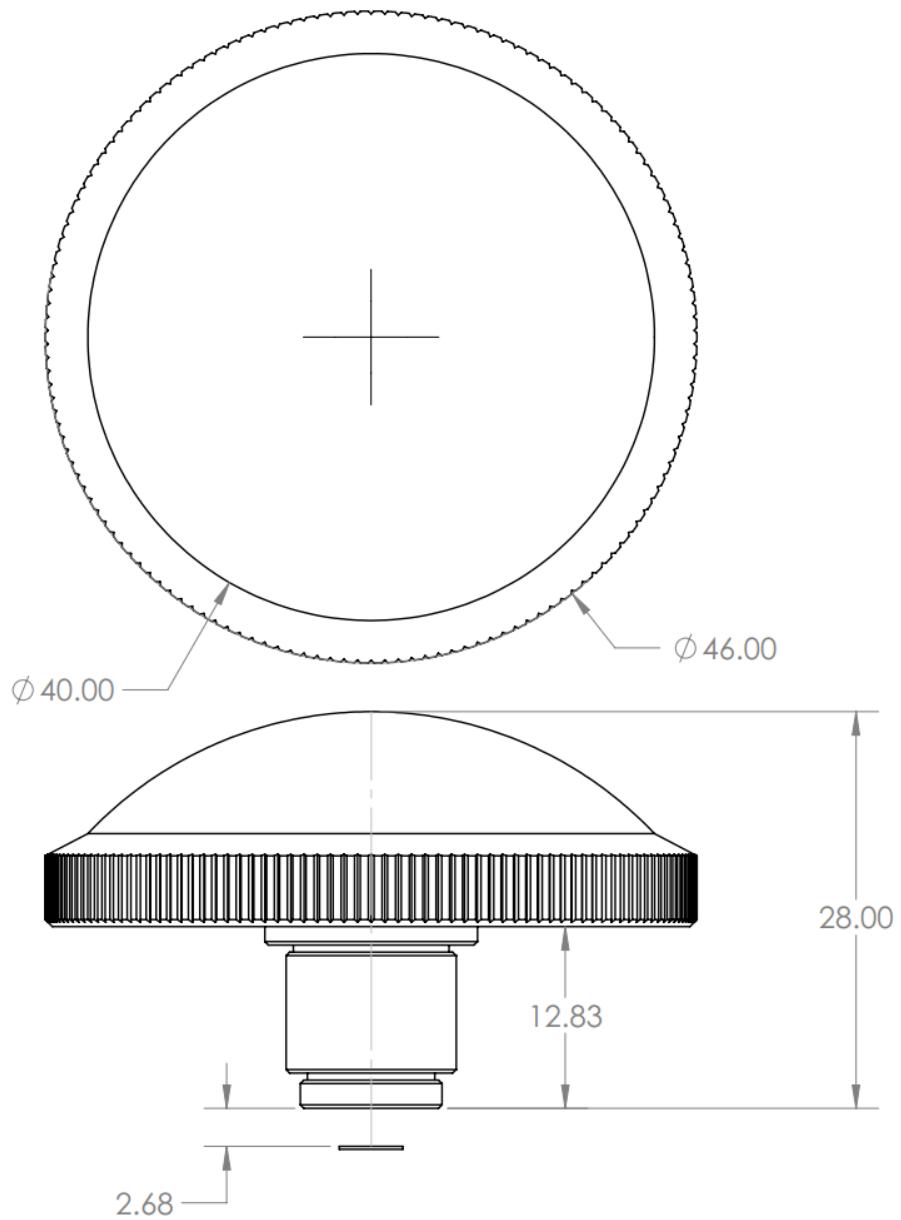
1.1mm 12MP fish-eye lens with M12 mount, 1/2.3"



Specifications

Focal Length	1.1mm
Aperture	f/2.4
Image Size	1/2.3"
Angle of View	D: 253°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.1m
F-Theta distortion	< -9.8%
Back focal length	2.86mm
External Dimensions	<ul style="list-style-type: none">• D=46mm• L=28mm
Net Weight	48.5g

Dimensions



L102-2.11-M12

Description

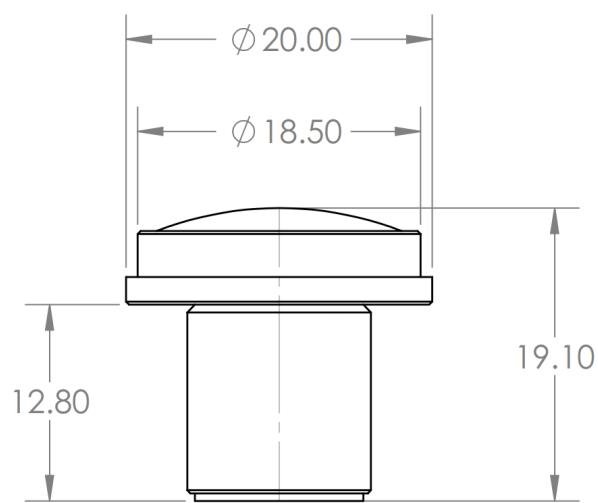
2.11mm M12 wide angle fixed focus lens



Specifications

Focal Length	2.11mm
Aperture	f/1.8
Image Size	6.7mm
Angle of View	<ul style="list-style-type: none">• D: 190°• H: 142°• V: 102°
Mount Type	M12 x 0.5-6g
Minimum Object Distance	0.3m
Back focal length	4.8mm
External Dimensions	<ul style="list-style-type: none">• D=20mm• L=19.1mm
AR coating	Yes
Net Weight	7g

Dimensions



L125-ZFA-10Z55-C

Description

10-55mm CS-mount low distortion lens

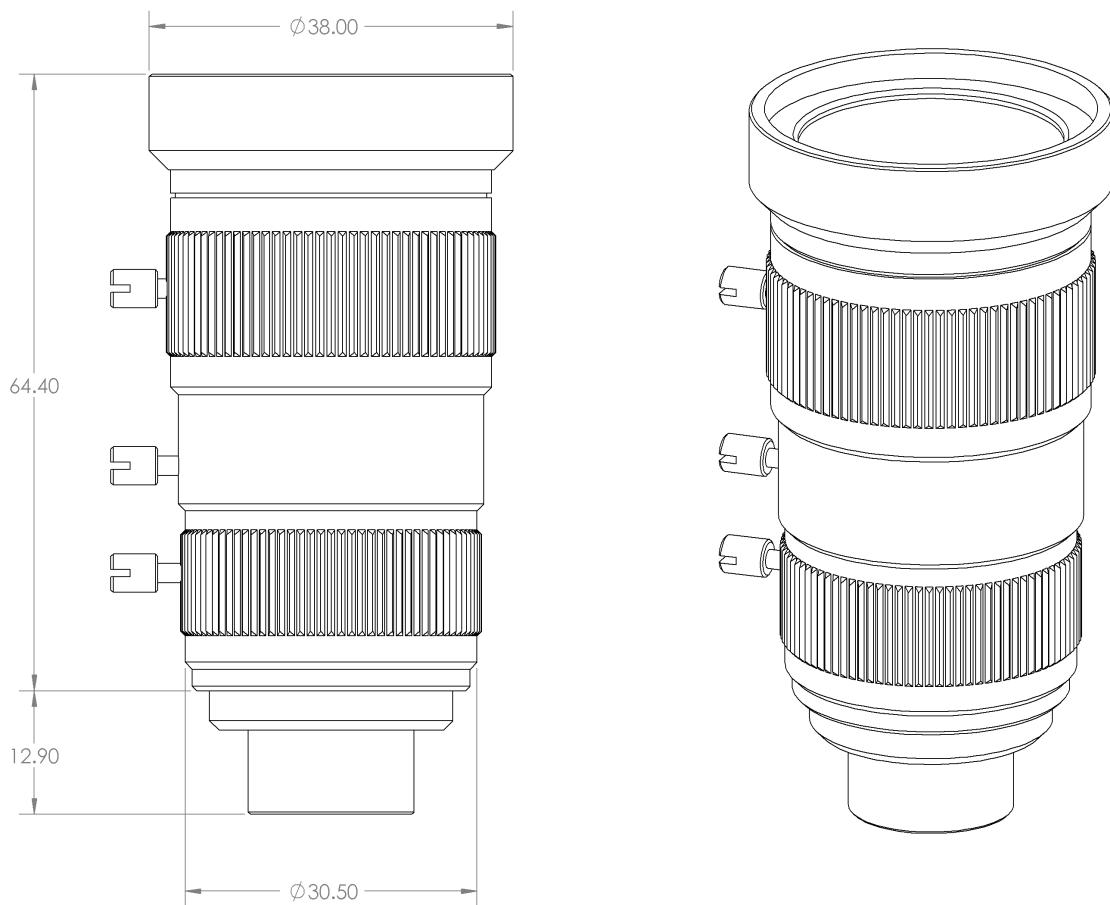


Specifications

Focal Length	10-55mm
Aperture	f/2.8
Image Size	1/1.7"
Angle of View	<ul style="list-style-type: none">Wide: 51.1° x 40.6° x 31°Tele: 9.6° x 7.7° x 5.8°
Mount Type	C
Minimum Object Distance	<ul style="list-style-type: none">Wide: 0.1mTele: 0.2m
Operation Mode	<ul style="list-style-type: none">Iris: Manual with LockFocus: Manual with LockZoom: Manual with Lock

External Dimensions	<ul style="list-style-type: none">• D=38mm• L=77.3mm
AR coating	Yes
Net Weight	118g
Rated sensor resolution	10M
Distortion	<-0.1%

Dimensions



L126-FA-4.5-C

Description

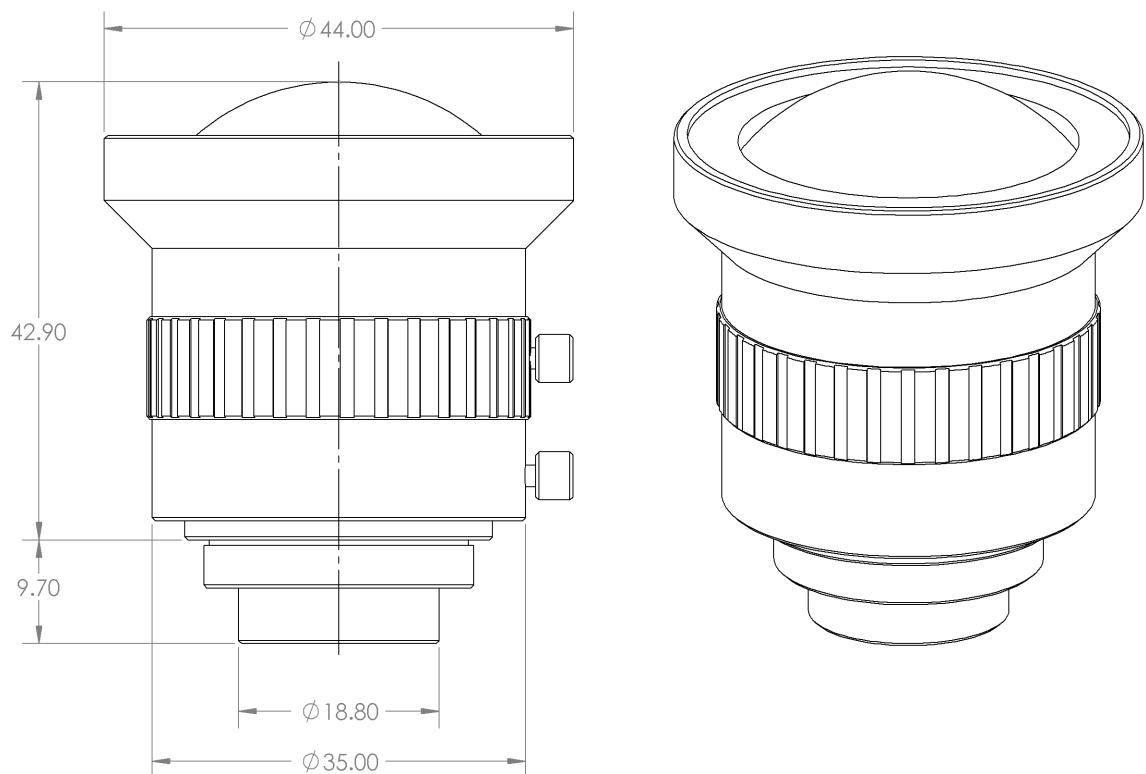
4.5mm C-mount fixed focus low distortion lens



Specifications

Focal Length	4.5mm
Aperture	f/2.8
Image Size	1/1.8"
Angle of View	90° x 68° x 56°
Mount Type	C
Minimum Object Distance	0.1m
Operation Mode	<ul style="list-style-type: none">• Iris: Manual with Lock• Focus: Manual with Lock
External Dimensions	<ul style="list-style-type: none">• D=44mm• L=52.6mm
AR coating	Yes
Net Weight	65g
Rated sensor resolution	5M
Distortion	<1.2%

Dimensions



L131-3.05-M12

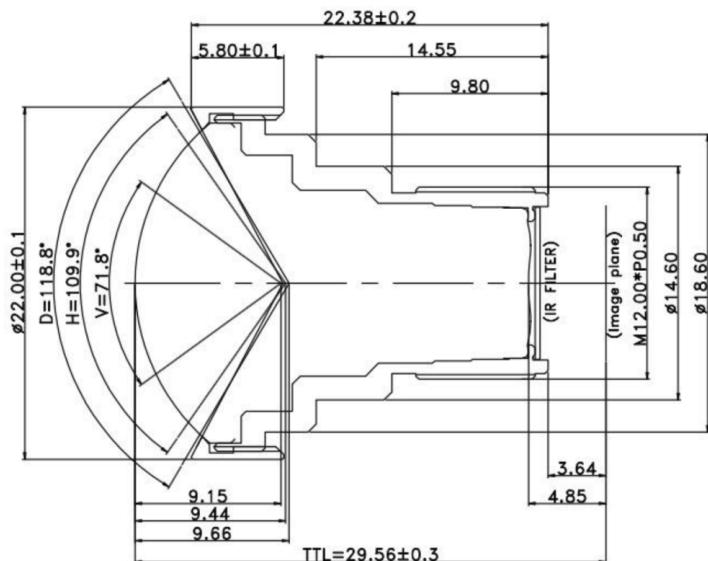
Description

3.05mm low distortion M12 lens

Specifications

Focal Length	3.05mm
Aperture	f/2.0
Image Size	1/1.7"
Angle of View (1/1.8")	118.8° x 109.9° x 71.8°
Mount Type	M12
Minimum Object Distance	0.2m
TV Distortion	≤-5.85%
Back Focal Length	4.85mm
External Dimensions	<ul style="list-style-type: none"> • D=22mm • L=22.38mm
Net Weight	10g
Rated sensor resolution	8M

Dimensions



L135-3.5-M12

Description

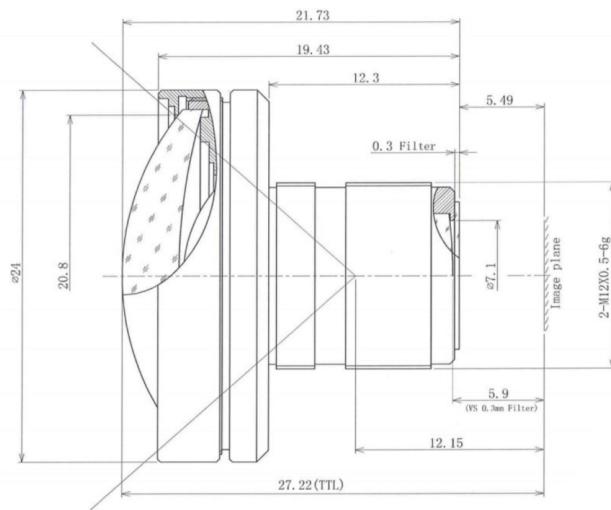
3.5mm large aperture, low distortion M12 lens



Specifications

Focal Length	3.5mm
Aperture	f/1.8
Image Size	1/2.5"
Angle of View (1/1.8")	90° x 78° x 62°
Mount Type	M12
Minimum Object Distance	0.2m
TV Distortion	≤1.7%
Back Focal Length	5.9mm
External Dimensions	<ul style="list-style-type: none">• D=24mm• L=21.7mm
Net Weight	23g
Rated sensor resolution	5M

Dimensions



L147-75-M12

Description

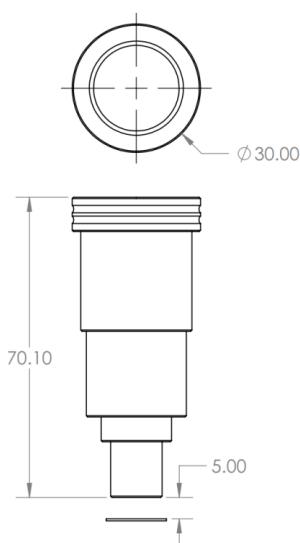
75mm M12-mount fixed focus lens



Specifications

Focal Length	75mm
Aperture	f/2.8
Image Size	1/1.8"
Angle of View	6.68° x 5.28° x 3.29°
Mount Type	M12
Minimum Object Distance	1m
External Dimensions	<ul style="list-style-type: none">• D=30mm• L=70.1mm
AR coating	Yes
Net Weight	60.6g
Rated sensor resolution	8M
Distortion	<1%

Dimensions



L156-8-M12

Description

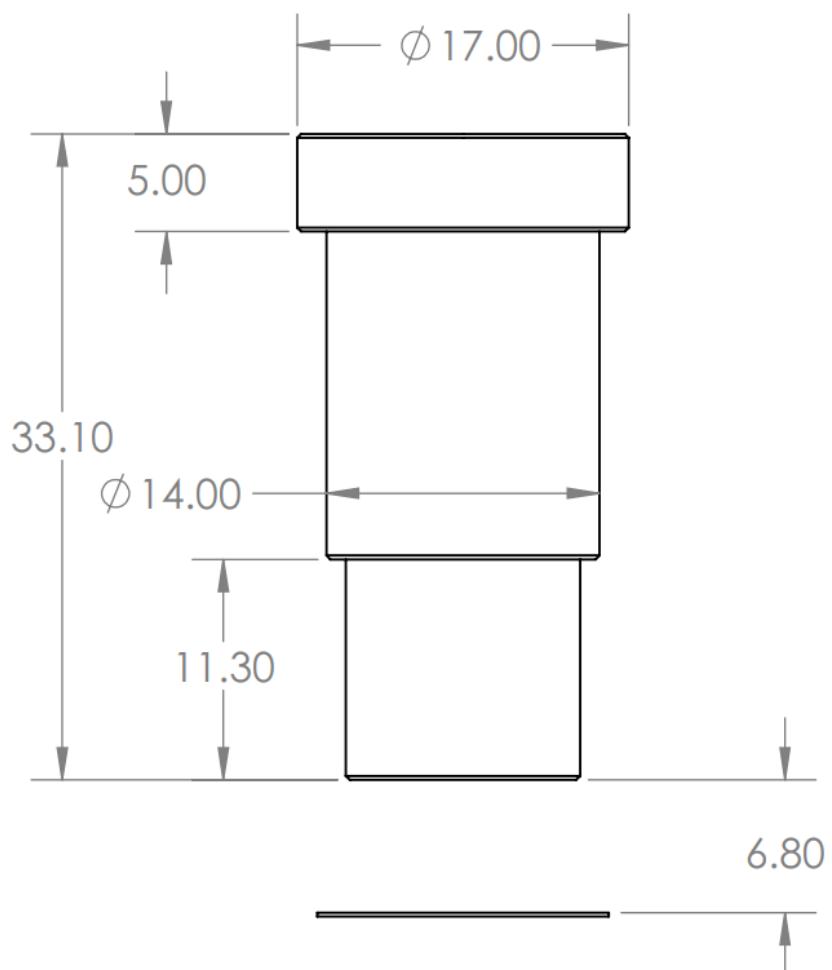
8mm M12-mount fixed focus lens



Specifications

Focal Length	8mm
Aperture	f/1.8
Image Size	1/1.7"
Angle of View	69.2° x 59.6° x 33.1°
Mount Type	M12
Minimum Object Distance	0.3m
Back Focal Length	6.8mm
External Dimensions	<ul style="list-style-type: none">• D=17mm• L=33.1mm
Net Weight	12g
Rated sensor resolution	12M

Dimensions



L157-12-M12

Description

12mm M12-mount fixed focus lens



Specifications

Focal Length	12mm
Aperture	f/1.8
Image Size	1/1.8"
Angle of View	41.9° x 33.9° x 25.6°
Mount Type	M12
Minimum Object Distance	0.15m
CRA	≤8.3°
Back Focal Length	5.64mm
External Dimensions	<ul style="list-style-type: none">• D=15mm• L=20.4mm
Net Weight	8g
Rated sensor resolution	8M

Dimensions

TBD

L158-14-M12

Description

14mm M12-mount fixed focus lens



Specifications

Focal Length	14mm
Aperture	f/2.8
Image Size	1/1.8"
Angle of View	35° x 28.4° x 21.2°
Mount Type	M12
Minimum Object Distance	0.15m
CRA	≤8.2°
Back Focal Length	5.424mm
Optical distortion	-1.48%
External Dimensions	<ul style="list-style-type: none">• D=14mm• L=15.22mm
Net Weight	5g
Rated sensor resolution	12M

Dimensions

TBD

L159-35-M12

Description

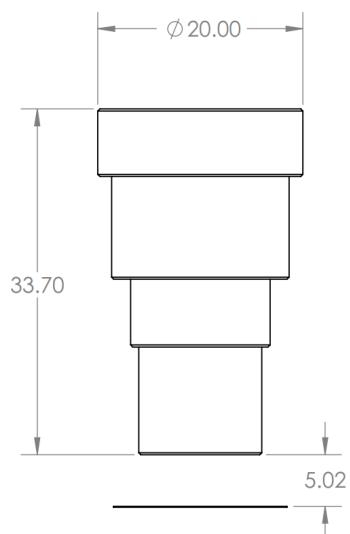
35mm M12-mount fixed focus lens



Specifications

Focal Length	35mm
Aperture	f/2.0
Image Size	2/3"
Angle of View (2/3")	17.66° x 14.2° x 10.7°
Mount Type	M12
Minimum Object Distance	0.15m
CRA	≤8.2°
Back Focal Length	7.57mm
Optical distortion	≤0.71%
External Dimensions	<ul style="list-style-type: none">• D=20mm• L=33.7mm
Net Weight	14g
Rated sensor resolution	8M

Dimensions



L161-21.6-M12

Description

21.6mm M12-mount fixed focus lens



Specifications

Focal Length	21.6mm
Aperture	f/2.8
Image Size	1/1.8"
Angle of View (1/1.8")	23.4° x 18.9° x 14°
Mount Type	M12
Minimum Object Distance	0.3m
CRA	≤7.97°
Back Focal Length	6.05mm
Optical distortion	≤-1.15%
External Dimensions	<ul style="list-style-type: none">• D=16mm• L=22.6mm
Net Weight	7.5g
Rated sensor resolution	12M

Dimensions

TBD

L186-3-M12

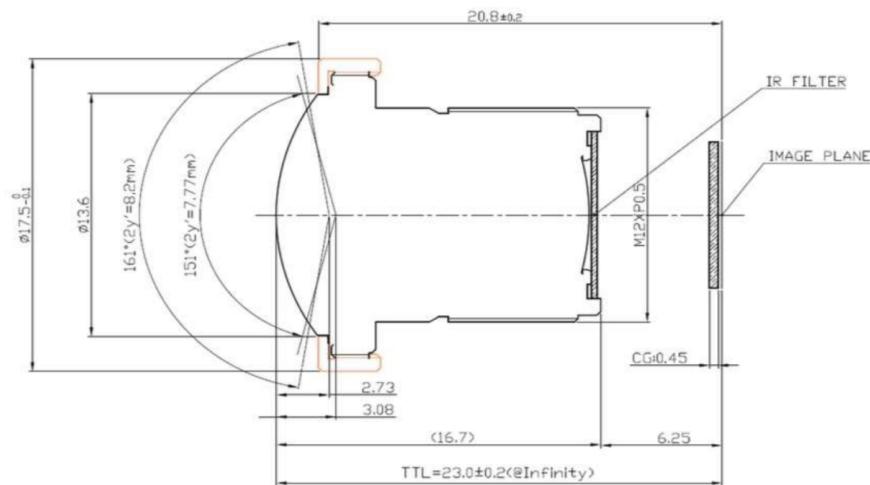
Description

3.08mm M12 lens

Specifications

Focal Length	3.08mm
Aperture	f/2.5
Image Size	1/2.3"
Angle of View (1/1.8")	151° x 120° x 89°
Mount Type	M12
Minimum Object Distance	0.2m
TV Distortion	≤-20%
Back Focal Length	6.25mm
External Dimensions	<ul style="list-style-type: none"> • D=17.5mm • L=16.7mm
Net Weight	8g
Rated sensor resolution	14M

Dimensions



Update History

Date	Event
2025-06-01	<p>Lens clarification and numbering update. Lxxx[-yyy-aaa][-bbb]</p> <ul style="list-style-type: none">• xxx - Lens ID• yyy - Focal length• aaa - Lens mount (CS, M12, ...)• bbb - Filter<ul style="list-style-type: none">◦ VIS - Band Pass 380-650nm, OD=2◦ NF - No filter◦ NIR1 - Long pass 850nm filter
2025-06-01	If no filter specified for CS or C-mount lenses, assume NF lens option.
2025-06-01	If no filter specified for M12-mount lenses, assume VIS lens option.