

镜头参数 (Parameter of Lens)

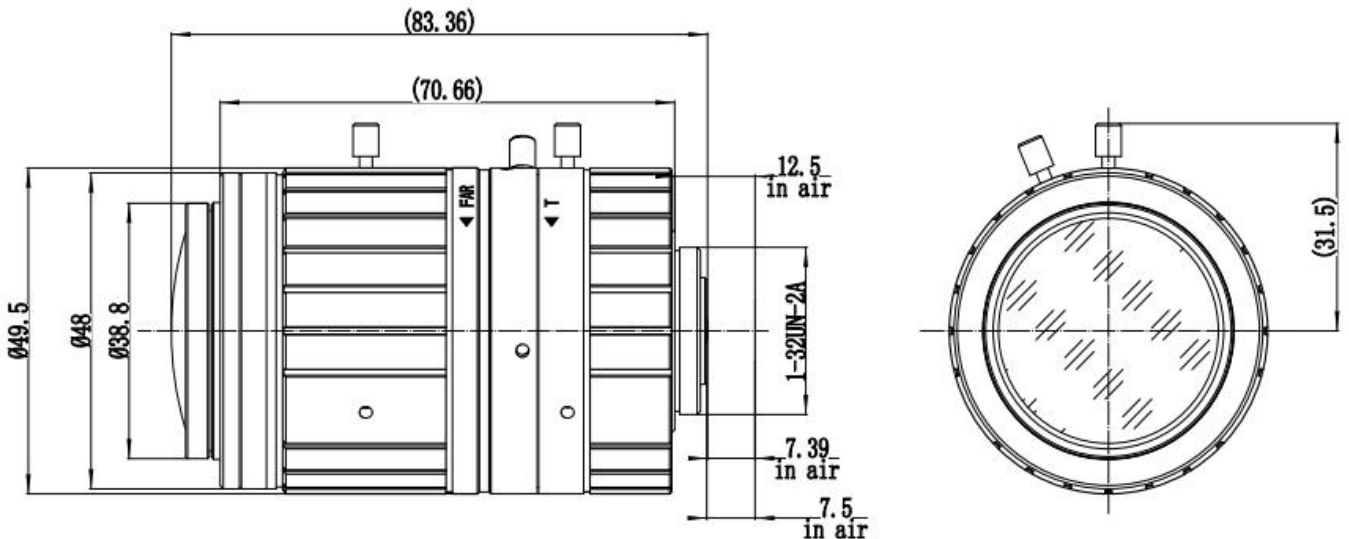
型号 (Model) :

CS-M03816IR (8MP)



分辨率 (Pixel)	8 MegaPixel						
像面尺寸 (Image format)	1/1.8"						
焦距 (Focal length)	3.8~16 (±5%) mm						
通光孔径 (Aperture)	F1.5±10%						
接口 (Mount)	CS						
视场角 (Field Angle) D×H×V(°) ±5%	°	1/1.8		1/2		1/3	
		Wide	Tele	Wide	Tele	Wide	Tele
	D	128	34.4	114	31.2	85.6	23.3
	H	103.5	28	91.5	25.8	68	18.75
V	75.5	20.7	68	18.75	51	14	
畸变 (Optical Distortion)	-48~-2% (1/1.8")						
主光束入射角 (CRA)	≤18.33° (Wide) ≤9.1° (Tele)						
最近物距 (M. O. D.)	1.5m						
外形尺寸 (Dimension)	φ49.5×83.36mm						
重量 (Weight)	225±5g						
法兰后焦距 (Flange BFL)	12.5mm						
光学后焦距 (BFL)	7.37~17.87mm						
机械后焦距 (MBF)	7.5~8.5mm						
日夜共焦 (IR Correction)	Yes						
操作方法 (Operation)	光圈 (Iris)		手动光圈 (Manual)				
	聚焦 (Focus)		手动聚焦 (Manual)				
	变焦 (Zoom)		手动变焦 (Manual)				
工作温度 (Operating temperature)	-20°C ~ +60°C						

尺寸 (Size)



尺寸公差 Size tolerance (mm) :

0-10±0.05

10-30±0.10

30-120±0.20

角度公差 Angle tolerance

±2°

检测标准 (Test Standard)

型号 (Model) :

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检测项目 Test Items

检测内容 Test Content

1	逆投影 Resolution	Test Range	Φ8 (Projection distance: Wide 0.5 m, Tele 2 m)
		Center ≥	200 lp/mm(Wide)、 160 lp/mm(Tele)
		Φ8 ≥	160 lp/mm(Wide)、 125 lp/mm(Tele)
		Image standard	The image should be clear.
环境 Environment		25±2℃, ≤1 lux Dark room Window thickness 1.0mm	

2	外观 Appearance	Apperance (Inner barrel)	60-40: The maximum scratch width is allowed to be 0.06mm, the length allows the 1/4 edge position of the lens; the visually invisible fineness is negligible; the maximum diameter of the pip is allowed to be 0.2mm, and only one lens surface is allowed; the pip is smaller than 0.002mm~0.005m can be neglected; the film color is uniform; there is no obvious color spot on the surface.
		Apperance (Outer barrel)	The lens barrel has no obvious color difference, scratch, break, deformation; the glue is not allowed to overflow into the effective light path; no word drop, clear writing, the same font size, even spacing, etc.
		Rotation	Feel the rotation back and forth smoothly without jumping, stuck and abnormal sounds, etc

环境 Environment		25±2℃ 700~1000 lux	
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环境可靠性测试 (Reliability and Environmental Testing)

型号 (Model) :		CS-M03816IR (8MP)
检测项目 Test Items		检测内容 Test Content
1	温度循环试验 Temperature Cycling Test	镜头在试验温度 $(-30\pm 3)^{\circ}\text{C}$ 放置1.5小时, $(70\pm 3)^{\circ}\text{C}$ 放置3小时的条件下, 放置2个循环。试验后, 将镜头放置于室温24小时后进行检验, 各指标均合格。 Lens is placed on two cycles in the test temperature $(-30\pm 3)^{\circ}\text{C}$ for 1.5 hours and in $(70\pm 3)^{\circ}\text{C}$ for 3 hours separately. Then, the indicators are qualified after placing the lens at room temperature for 24 hours.
2	高温高湿试验 Damp heat test	镜头在试验温度 $(70\pm 3)^{\circ}\text{C}$, 湿度85%RH的条件下, 放置48小时。试验后, 将镜头放置于室温24小时后进行检验, 各指标均合格。 Lens is placed in the test temperature $(70\pm 3)^{\circ}\text{C}$, humidity 85% RH for 48 hours. Then, the indicators are qualified after placing the lens at room temperature for 24 hours.
3	跌落试验 Drop Test	镜头在1米高 $(\pm 0.1\text{米})$ 处, 自由跌落到混凝土地板上。试验后, 镜头各指标均合格。 Lens drops from the height of $(1\pm 0.1\text{m})$ to the concrete ground. After the testing, the indicators are qualified.
4	振动试验 Vibration Test	镜头正弦波振动2小时, 在振幅为1mm, 频率为50Hz的条件下, 试验后, 镜头各指标均合格。 Lens vibrates 2h in sinusoidal wave under 1 mm of amplitude and 50Hz of frequency. After the testing, the indicators are qualified.

包装规格 (Packing Specification)

型号 (Model) :

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1. Stick label on the surface of lens after capped.
2. Put the lens into the carton box.
3. The unit will be packaged in a corrugated box.
4. Seal the corrugated box with tape and mark the surface.

