

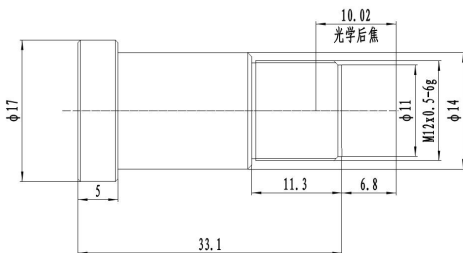
## 镜头参数 (Parameter of Lens)

型号 (Model) :

**M12-8IR (12MP)**


分辨率 (Resolution)	12 Megapixel			
像面尺寸 (Image format)	1/1.7"			
焦距 (Focal length)	8mm			
通光孔径 (Aperture)	F1.8			
接口 (Mount)	M12			
视场角 (Field Angle) D×H×V(°)	$\theta$	1/1.7	1/2.5	1/3
	<b>D</b>	72.64	50.7	43
	<b>H</b>	57.12	44.4	34.7
	<b>V</b>	42.44	32.6	26.4
畸变 (Optical Distortion)	-15.68% (Max)			
主光束入射角 (CRA)	≤10.8°			
最近物距 (M.O.D.)	0.3m			
外形尺寸 (Dimension)	Φ17×33.1mm			
重量 (Weight)	12g			
法兰后焦距 (Flange BFL)	/			
光学后焦距 (BFL)	10.02mm			
机械后焦距 (MBF)	6.8mm			
日夜共焦 (IR Correction)	Yes			
操作方法 (Operation)	光圈 (Iris)	固定光圈 (Fixed)		
	聚焦 (Focus)	/		
	变焦 (Zoom)	/		
工作温度 (Operating temperature)	-20°C ~ +70°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°



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检测标准 (Test Standard)

型号 (Model):

M12-8IR (12MP)

检测项目 Test Items

检测内容 Test Content

1	逆投影检测 Resolution Test	Test Range	Φ8 (diameter 0.8m)
		Center ≥	250 lp/mm
		edge ≥	250 lp/mm
		Image standard	The image should be clear.
	环境 Environment	25±2℃, ≤1 lux Dark room	

2	外观检测 Appearance Inspection	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.
	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) :		M12-8IR (12MP)
检测项目 Test Items		检测内容 Test Content
1	<b>温度循环试验</b> 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	<b>高温高湿试验</b> 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	<b>跌落试验</b> Drop Test	镜头在1米高 $(\pm 0.1\text{m})$ 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	<b>振动试验</b> 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.



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包装规格 (Packing Specification)

型号 (Model) :

M12-8IR (12MP)

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.

