

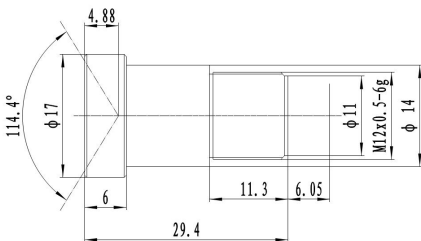
镜头参数 (Parameter of Lens)

型号 (Model) :

M12-5IR (12MP)


分辨率 (Resolution)	12 Megapixel			
像面尺寸 (Image format)	1/1.7"			
焦距 (Focal length)	5mm			
通光孔径 (Aperture)	F2.0			
接口 (Mount)	M12			
视场角 (Field Angle) D×H×V(°)		1/1.7	1/2.5	1/3
	D	121.4	87	70.9
	H	90	68.6	55.5
	V	65	49.7	41.2
畸变 (Optical Distortion)	-43.7% (MAX)			
主光束入射角 (CRA)	≤12.72°			
最近物距 (M. O. D.)	0.3m			
外形尺寸 (Dimension)	Φ17×29.4mm			
法兰后焦距 (Flange BFL)	/			
重量 (Weight)	11.6g			
光学后焦距 (BFL)	6.39mm			
机械后焦距 (MBF)	6.05mm			
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)	-30°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 : ±5°



福建福特科光电股份有限公司

Foctek Photonics, Inc.

检测标准 (Test Standard)

型号 (Model):

M12-5IR(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

Appearance (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.

Appearance (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) :

M12-5IR(12MP)

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.



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Foetek Photonics, Inc.

包装规格 (Packing Specification)

型号 (Model) :

M12-5IR (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.

