



福建福特科光电股份有限公司

Foctek Photonics, Inc.

产品规格书

Product Specification

产品名称: 12百万定焦镜头
Product 12 Megapixel Prime Lens

产品型号: CS-5IR(12MP)
Model No

制作 Prepared by	俞晓燕	审核 Reviewed by	罗联镜	审批 Approved by	林勇杰
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电话 (TEL) : +86-591-38266618

传真 (FAX) : +86-591-38266619

网址 (Website) : <http://www.foctek-lens.com/>

邮箱 (E-mail) : sales@foctek-lens.com

邮编 (P.C) : 350100

地址 (add): 福建省福州市闽侯铁岭工业区二期7号路8号

No. 8, the 7th Road

Phase II of Minhou Tieling Industrial District

Fuzhou, Fujian 350100, China





工程变更记录

[illegible]

镜头参数 (Parameter of Lens)

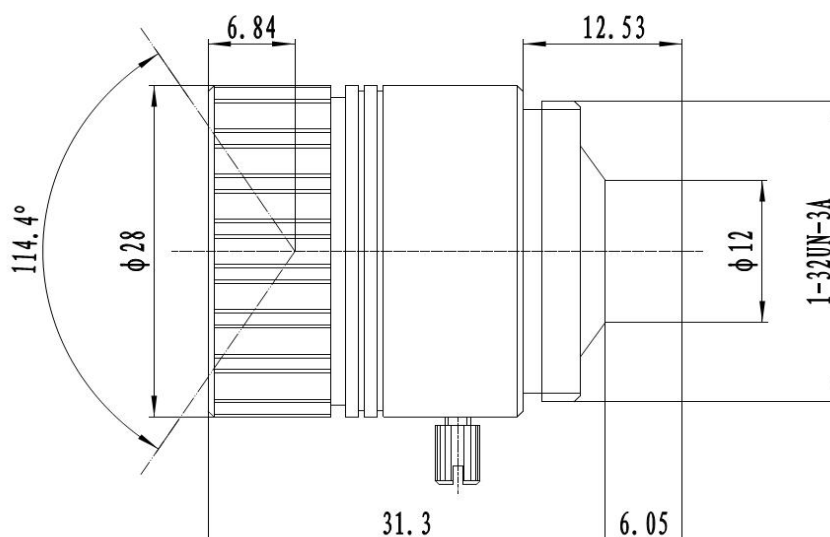
型号 (Model) :

CS-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)		CS		
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)		Φ28×31.3mm		
重量 (Weight)		40.9g		
法兰后焦距 (Flange BFL)		12.5mm		
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℃~+70℃		

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) :		CS-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 (直径0.8米)
		Center≥	250 lp/mm
		Φ8≥	250 lp/mm
		Image standard	The image quality within the detection range is clear without smear and the surrounding area is uniform
	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.
		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-5IR (12MP)
检测项目 Test Items		检测内容 Test Content
1	温度循环试验 Temperature Cycling Test	<p>镜头在试验温度$(-30\pm3)^{\circ}\text{C}$放置1.5小时, $(70\pm3)^{\circ}\text{C}$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。</p> <p>Lens is placed on two cycles in the test temperature $(-30\pm3)^{\circ}\text{C}$ for 1.5 hours and in $(70\pm3)^{\circ}\text{C}$ for 3 hours separately. Then, the indicators are qualified after placing the lens at room temperature for 24 hours.</p>
2	高温高湿试验 Damp heat test	<p>镜头在试验温度$(70\pm3)^{\circ}\text{C}$, 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。</p> <p>Lens is placed in the test temperature $(70\pm3)^{\circ}\text{C}$, humidity 85% RH for 48 hours. Then, the indicators are qualified after placing the lens at room temperature for 24 hours.</p>
3	跌落试验 Drop Test	<p>镜头在1米高$(\pm0.1\text{米})$处, 自由跌落到混凝土地板上。试验后, 镜头各指标均合格。</p> <p>Lens drops from the height of $(1\pm0.1\text{m})$ to the concrete ground. After the testing, the indicators are qualified.</p>
4	振动试验 Vibration Test	<p>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。</p> <p>Lens vibrates 2h in sinusoidal wave under 1 mm of amplitude and 50Hz of frequency. After the testing, the indicators are qualified.</p>



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包装规格 (Packing Specification)

型号 (Model) :

CS-5IR (12MP)

1. Stick label on the surface of lens after capped.
2. Put the lens into the carton box with pearl wool, desiccant and instructions in order to protect it from moisture.
3. The unit will be packaged in a corrugated box. Seal the corrugated box with tape and mark the surface.

