



# 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: 8百万变焦镜头  
Product 8 Megapixel Zoom Lens

产品型号: C-M1236IR (8MP)  
Model No

制作 Prepared by	林朝钰	审核 Reviewed by	何孔义	审批 Approved by	李宇航
-------------------	-----	-------------------	-----	-------------------	-----

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](mailto: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



CE RoHS



## 文件变更记录

[illegible]

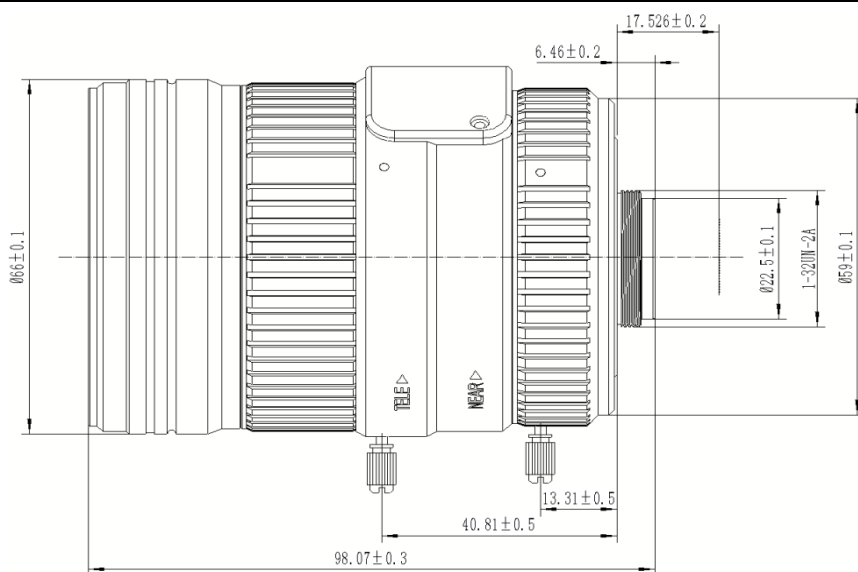


福建福特科光电股份有限公司  
Foctek Photonics, Inc.

镜头参数 (Parameter of Lens)

型号 (Model) :	C-M1236IR (8MP)						
	分辨率 (Resolution)	8 MegaPixel					
	像面尺寸 (Image format)	1"					
	焦距 (Focal length)	12~36mm					
	通光孔径 (Aperture)	F1.6					
	接口 (Mount)	C					
	视场角 (Field Angle) D×H×V(°)		1		2/3		1/2
			Wide	Tele	Wide	Tele	Wide Tele
		D	67.2	28.6	47.3	19.3	34.7 14
		H	54.6	22.6	38.1	15.4	27.9 11.4
		V	41.5	16.8	28.7	11.5	20.9 8.3
	畸变 (Optical Distortion)	-8.0%~-4.86%(1")					
	主光束入射角 (CRA)	≤5.82° (Wide) ≤4.9° (Tele)					
	最近物距 (M. O. D.)	2.5m					
	重量 (Weight)	561±2g					
	外形尺寸 (Dimension)	Φ66×98.1mm					
	法兰后焦距 (Flange BFL)	17.526mm(in air)					
	光学后焦距 (BFL)	11.6mm(in air)					
	机械后焦距 (MBF)	10.97mm(in air)					
	日夜共焦 (IR Correction)	Yes					
操作方法 (Operation)	光圈 (Iris)	手动 (Manual-Iris)					
	聚焦 (Focus)	手动聚焦 (Manual)					
	变焦 (Zoom)	手动变焦 (Manual)					
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°		

**检测标准 (Test Standard )**

Model:		C-M1236IR (8MP)	
Test Items		Test Content	
1	Resolution Test	Inspect Range	Φ16（直径 Diameter>1.5m）
		Center≥	160 lp/mm(Wide), 160 lp/mm(Tele, Using f=3m close-up Lens)
		Edge≥	100 lp/mm(Wide) 100 lp/mm(Tele, Using f=3m close-up Lens)
		Image demand	The image quality should be clear without smear and uniform around.
Environment		25±2℃ ≤1 lux dark room	
2	Appearance	Apperance (Inner barrel)	60-40: 60 scars: the maximum width is allowed to be 0.06mm, the longest is 2.5mm (Φ/4), the number of strips at the edge is allowed to be 1; the width is 0.02mm × 2, and the total length is 10.5mm (Φ/1); width 0.06mm × 1 strip, length 1mm + width 0.04 × 1 strip, the total length is 5mm (Φ / 2), the same analogy; 40 bright spots: the maximum bright spot is allowed to be 0.4mm, only one is allowed in the middle and edge regions, and two are allowed when the bright point is ≤ 0.2mm, and the distance is ≥1mm;
		Apperance (Outer barrel)	The lens barrel has no obvious color difference, scratch, break, deformation, etc., 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.
3	P Iris	IRIS Appearance	The iris cable rubber band is not exposed; the optical drive wiring head has no damage and no change, and the interface pointer length is consistent; the following phenomena are not available: solder joints, false soldering, joints falling off, structural partsloose, deformation, etc.
		IRIS Move	The iris switch is slow and even, not too fast, too slow or inactive.
		IRIS photosensitive	Use the camera to confirm the photosensitive of iris, the response is sensitive without delay.
Environment		25±2℃ 700~1000 lux	



福建福特科光电股份有限公司

Foctek Photonics, Inc.

环境可靠性测试 (Reliability and Environmental Testing)

型号 (Model) :		C-P1236IR (8MP)
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 <math>(-30 \pm 3)^{\circ}\text{C}</math> 放置1.5小时, <math>(70 \pm 3)^{\circ}\text{C}</math> 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 <math>(-30 \pm 3)^{\circ}\text{C}</math> for 1.5 hours and in <math>(70 \pm 3)^{\circ}\text{C}</math> 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 <math>(70 \pm 3)^{\circ}\text{C}</math>, 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 <math>(70 \pm 3)^{\circ}\text{C}</math>, 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 <math>(\pm 0.1\text{米})</math> 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 <math>(1 \pm 0.1\text{m})</math> 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>

**包装规格 (Packing Specification)****型号 (Model) :****C-P1236IR (8MP)**

1. Cover the lens and attach the internal standard;
2. Put the lens into the lined carton and put in the desiccant and instructions;
3. Cover the inner liner, pack the carton, and attach the external label;
4. Pack the carton into the large carton box by box, seal the

