



# 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-P1236IR (8MP)  
Model No

|                   |     |                   |     |                   |     |
|-------------------|-----|-------------------|-----|-------------------|-----|
| 制作<br>Prepared by | 林朝钰 | 审核<br>Reviewed by | 何孔义 | 审批<br>Approved by | 李宇航 |
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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]

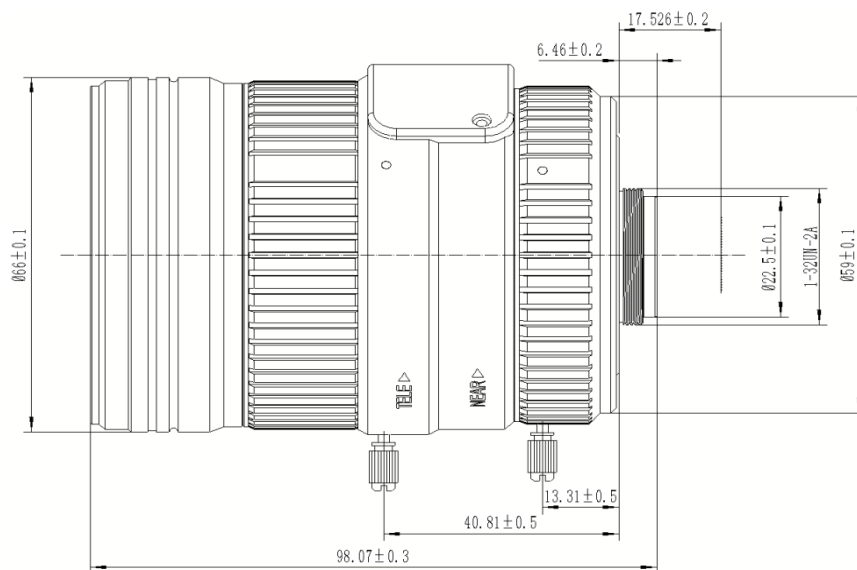


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镜头参数 (Parameter of Lens)

|                                                                                    |                               |                               |      |      |      |      |           |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|------|------|------|------|-----------|
| 型号 (Model) :                                                                       | C-P1236IR (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)<br>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)<br>≤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<br>(Operation)                                                                | 光圈 (Iris)                     | P光圈 (P-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°       |            |             |



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### 自动光圈 (Auto Iris)

型号 (Model) :

C-P1236IR (8MP)

| 一般公差      | 1级    | 2级   | 3级   |
|-----------|-------|------|------|
| L≤6       | ±0.05 | ±0.1 | ±0.2 |
| 6<L≤30    | ±0.1  | ±0.2 | ±0.3 |
| 30<L≤120  | ±0.15 | ±0.3 | ±0.5 |
| 120<L≤315 | ±0.2  | ±0.5 | ±0.8 |

角度公差: ±1°

#### CONNECTION DIAGRAM

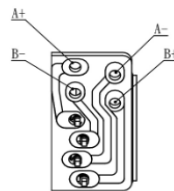
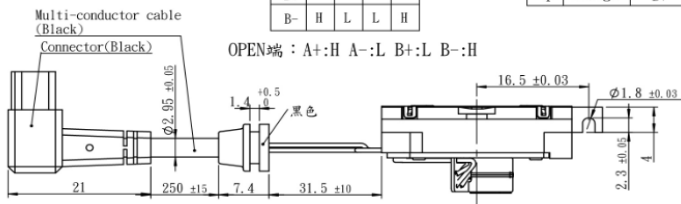


#### SEQUENCE OF EXCITATION

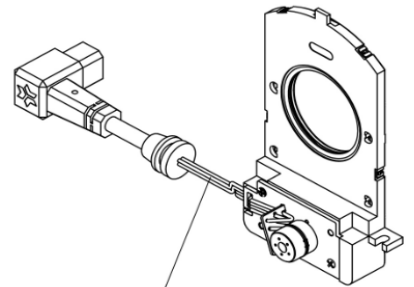
| STEP  | 1 | 2 | 3 | 4 |
|-------|---|---|---|---|
| PHASE | H | H | L | L |
| A+    | H | H | L | L |
| A-    | L | L | H | H |
| B+    | L | H | H | L |
| B-    | H | L | L | H |

| NO. | 颜色     | 卷线 |
|-----|--------|----|
| 1   | brown  | B- |
| 2   | red    | A- |
| 3   | yellow | A+ |
| 4   | orange | B+ |

OPEN端: A+:H A-:L B+:L B-:H

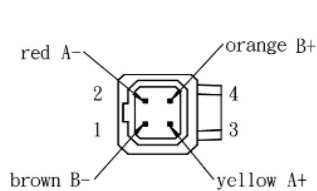


B (5 : 1)

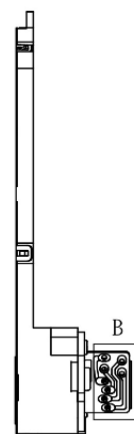
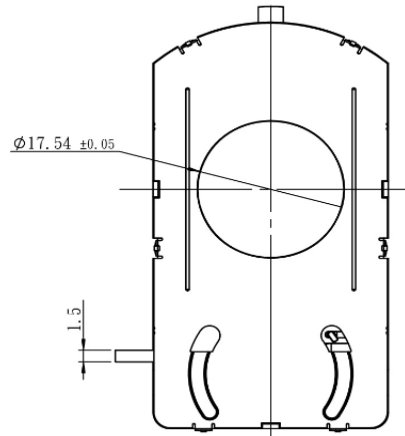
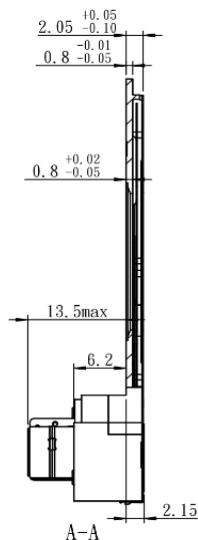
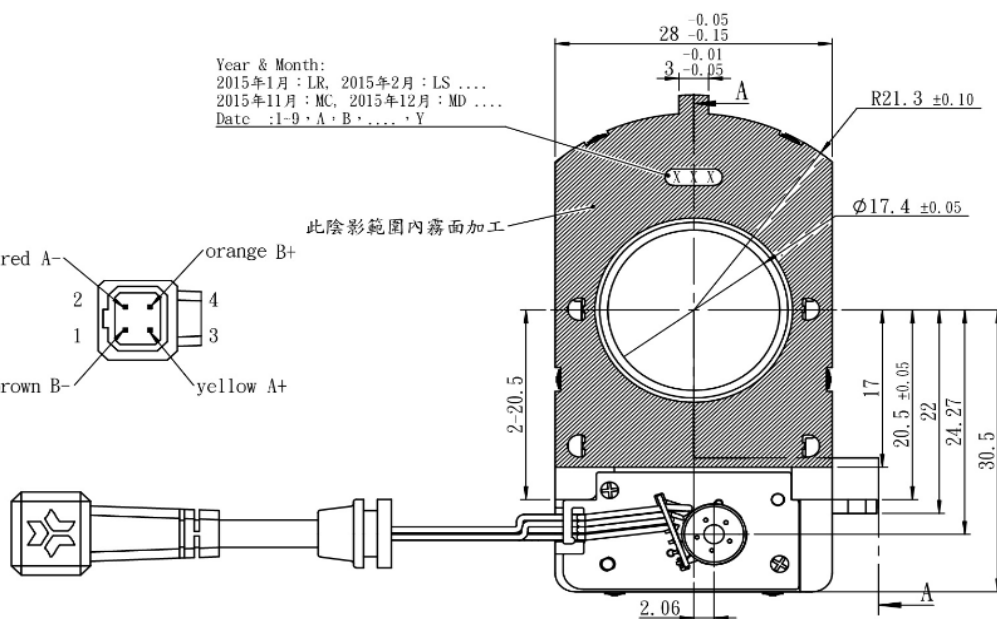


|    |                       |
|----|-----------------------|
| 导线 | Φ3.0 4芯线 (线颜色:黑)      |
| 规格 | UL 1571 80°C 30V VW-1 |
| 材料 | 绝缘:PE 端头:PVC28#       |

Year & Month:  
2015年1月: LR, 2015年2月: LS ....  
2015年11月: MC, 2015年12月: MD ....  
Date :1-9 , A , B , .... , Y



此阴影范围内需面加工



**检测标准 (Test Standard )**

|             |                 |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model:      |                 | C-P1236IR (8MP)             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Items  |                 | Test Content                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1           | Resolution Test | Inspect Range               | Φ16（直径 Diameter>1.5m）                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|             |                 | Center≥                     | 160 lp/mm(Wide),<br>160 lp/mm(Tele, Using f=3m close-up Lens)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             |                 | Edge≥                       | 100 lp/mm(Wide)<br>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℃<br>≤1 lux dark room   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2           | Appearance      | Apperance<br>(Inner barrel) | 60-40:<br>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;<br>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<br>(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℃<br>700~1000 lux       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



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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<br>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<br>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<br>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<br>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

