


## 镜头参数 (Parameter of Lens)

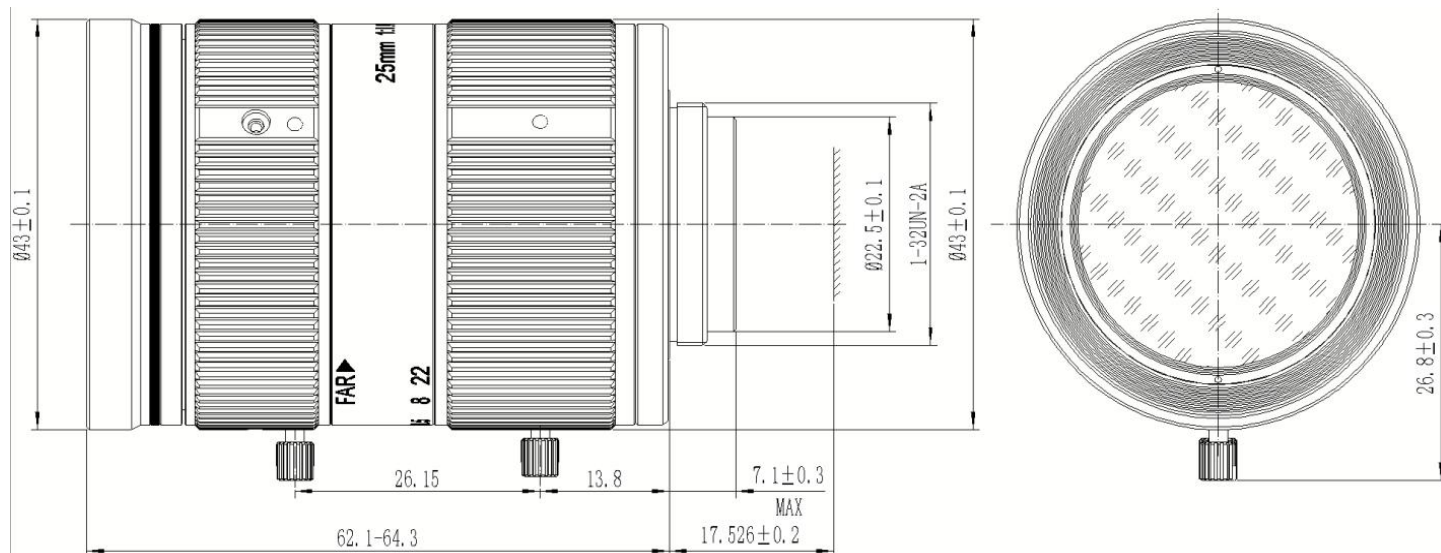
型号 (Model) :

C-M25 (12MP) -1F14



分辨率 (Resolution)		12 Megapixel		
像面尺寸 (Image format)		1"		
焦距 (Focal length)		25±5%mm		
通光孔径 (Aperture)		F1.4±10%		
接口 (Mount)		C		
视场角 (Field Angle) D×H×V(°) ±5%		1.1 (IMX428)	1 (IMX305)	1 (16*12.8*9.6)
	D	40.03	36.6	36.5
	H	33	32.4	29.2
	V	22.87	17.3	21.9
畸变 (Optical Distortion)		-2.9%@Φ16mm		
主光束入射角 (CRA)		≤5.8° @Φ16mm		
最近物距 (M. O. D.)		1m		
外形尺寸 (Dimension)		Φ43×62.1~64.3mm		
重量 (Weight)		195±5g		
法兰后焦距 (Flange BFL)		17.526mm		
光学后焦距 (BFL)		11.70mm(in air)		
机械后焦距 (MBF)		11.10mm(in air)		
日夜共焦 (IR Correction)		NO		
操作方法 (Operation)	光圈 (Iris)	手动光圈 (Manual)		
	聚焦 (Focus)	手动聚焦 (Manual)		
	变焦 (Zoom)	/		
工作温度 (Operating temperature)		-30℃~+70℃		

## 尺寸 (Size)



尺寸公差 Size tolerance (mm) :

0-10  $\pm 0.05$ 10-30  $\pm 0.10$ 30-120  $\pm 0.20$ 

角度公差 Angle tolerance

 $\pm 2^\circ$



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) :

C-M25(12MP)-1F14

检测项目 Test Items

检测内容 Test Content

1

逆投影检测  
Resolution Test

Test Range

$\Phi 16$  (projection distance 2.5m,  
Window thickness  $1.5 \pm 0.2\text{mm}$ )

Center  $\geq$

160 lp/mm

$\Phi 16 \geq$

( $\Phi 12$ ) 125 lp/mm  
( $\Phi 16$ ) 100 lp/mm

Image standard

The image should be clear.

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  $0.002\text{mm} \sim 0.005\text{m}$  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

$25 \pm 2^\circ\text{C}$   
700~1000 lux



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

型号 (Model) :

C-M25 (12MP) -1F14

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.

### 包装规格 (Packing Specification)

型号 (Model) :

C-M25 (12MP) -1F14

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.

