

镜头参数 (Parameter of Lens)

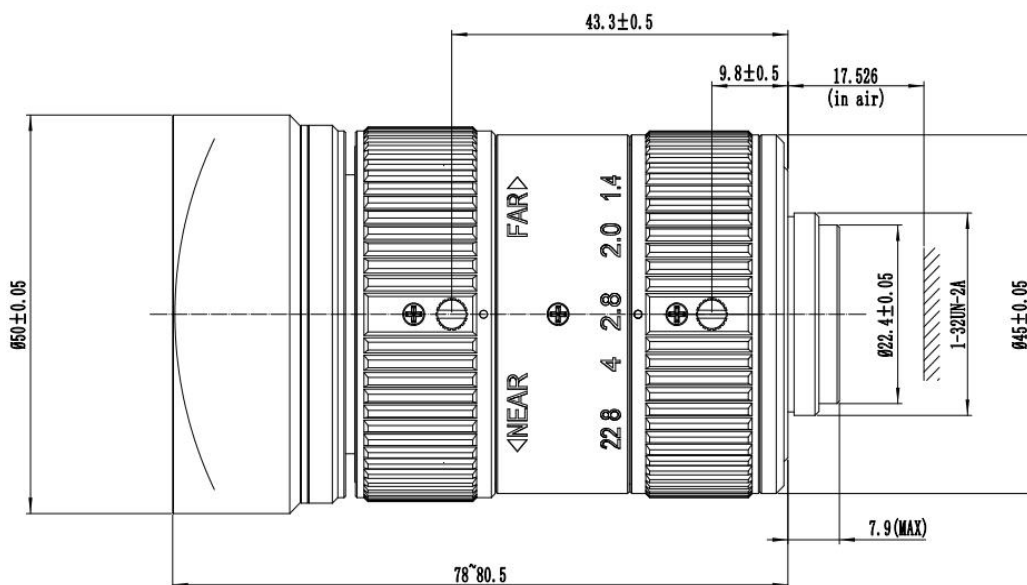
型号 (Model) :

C-M12(12MP)-1F14



分辨率 (Resolution)		12 Megapixel		
像面尺寸 (Image format)		1.1"		
焦距 (Focal length)		12±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" (IMX305)	1.1" (IMX428)
	D	68.0	68.0	74.0
	H	56.0	62.0	62.8
	V	43.0	34.0	45.1
畸变 (Optical Distortion)		4.50%		
主光束入射角 (CRA)		<5.5°		
最近物距 (M. O. D.)		0.3m		
外形尺寸 (Dimension)		Φ50×78~80.5mm		
重量 (Weight)		318.5g±5g		
法兰后焦距 (Flange BFL)		17.526mm(in air)		
光学后焦距 (BFL)		11.56mm(in air)		
机械后焦距 (MBF)		9.88mm(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 ± 0.05 10-30 ± 0.10 30-120 ± 0.20

角度公差 Angle tolerance

 $\pm 2^{\circ}$

检测标准 (Test Standard)

型号 (Model) :		C-M12(12MP)-1F14	
检测项目 Test Items		检测内容 Test Content	
1	逆投影检测 Resolution Test	Test Range	Φ16 (projection distance 1.5m, Window thickness 1.5±0.2mm)
		Center≥	160 lp/mm
		Φ12≥ Φ16≥	125 lp/mm 100 lp/mm
		Image standard	The image should be clear.
	环境 Environment	25±2℃, ≤1 lux darkroom Window thickness 0.8±0.2mm, projection distance>1m	
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	



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-M12(12MP)-1F14
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) :

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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.

