

型号 (Model):

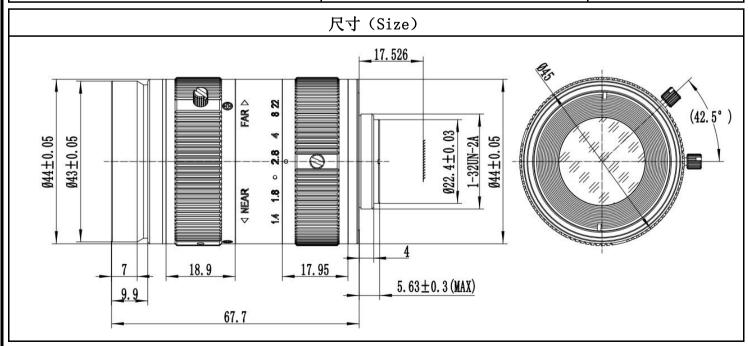
福建福特科光电股份有限公司

Foctek Photonics, Inc.

镜头参数 (Parameter of Lens)



C-M20 (12MP)-1F14				
分辨率 (Resolution)		12 Megapixel		
像面尺寸 (Image format)		1.1"		
焦距 (Focal length)		20 ± 5 %mm		
通光孔径 (Aperture)		F1.6±5%		
接口 (Mount)		С		
视场角(Field Angle) D×H×V(°) ±5%	, "	1.1 (IMX428)	1 (IMX305)	1 (16*12. 8*9. 6)
	D	49.06	44.6	44. 3
	Н	42.4	39.4	35. 7
	V	27. 96	21.0	26. 8
畸变(Optical Distortion	n)	-4.9% Ф 16mm		
主光束入射角(CRA)		≤6.1° Φ16mm		
最近物距(M. O. D.)		0.5m		
外形尺寸(Dimension)		ф 45×67.7mm		
重量(Weight)		212±5g		
法兰后焦距(Flange BFL)		17. 526mm		
光学后焦距(BFL)		12.474mm (in air)		
机械后焦距(MBF)		13.5mm (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°C∼+70)℃



尺寸公差Size tolerance (mm):	$0-10\pm0.05$	$10-30\pm0.10$	$30-120\pm0.20$	
角度公差Angle tolerance	±2°			
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检测标准 (Test Standard)					
型号 (Model):		C-M20(12MP)-1F14			
	检测项目Test Items	检测内容 Test Content			
1	逆投影检测 Resolution Test	Test Range	Φ 16 (projection distance 1.5m, Window thickness 1.5 \pm 0.2mm)		
		Center≥	160 lp/mm		
		Ф16>	(Ф12) 125 lp/mm (Ф16) 100 lp/mm		
		Image stardard	The image should be clear.		
	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.		
2		Apperance (Outer barrel)	The lens barrel has no obvious color difference, scratch, break, deformation; the glue is not allowed to overflow intothe 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 第 2 页 共 4 页			



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环境可靠性测试(Reliability and Environmental Testing)			
型号	(Model):	C-M20(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 ± 3) ℃放置1.5小时, (70 ± 3) ℃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 ± 3) ℃ for 1.5 hours and in (70 ± 3) ℃ 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±3)℃,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±3)℃, 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(±0.1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±0.1m) 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. 第 3 页 共 4 页	



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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.

