



深圳市创威时代光电有限公司
Shenzhen ChuangWei Seculens CO., Ltd.

产品规格书

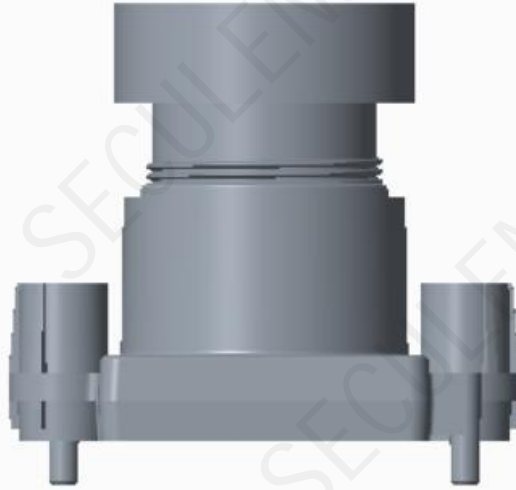
Product Specification

型号:
(Model Name) : YT10118-HD+IR0618

编码:
(Part No.) : 01. 10118. 008. 02

客户名称:
(Customer Name) :

客户编码:
(Customer Part No.) :



图片仅供参考
(picture only for your reference)

产品规格书目录 (Table of Content)

1 封面(Title Page).....	1
2 目录(Table of Content).....	2
3 变更履历(Revision history).....	3
4 概要(Outline)	
4.1 应用范围(Application).....	4
5 主要参数(Main Items)	
5.1 光学参数规格(Optical Specifications).....	4
5.2 机构参数规格(Mechanical Specifications).....	5
5.3 IR-FILTER规格参数 (IR-FILTER Specification)	7
5.4 光学检测标准(Optical Performance).....	8
5.5 环境参数规格(Environment Specifications)	8
6 信赖性测试(Reliability Test).....	9
7 包装规格 (Package)	10



4.概要 (Outline)

4.1 应用范围 (Application)

适用于我司向贵司提供的镜头产品(The below datasheet is only suit to CWZK products.)

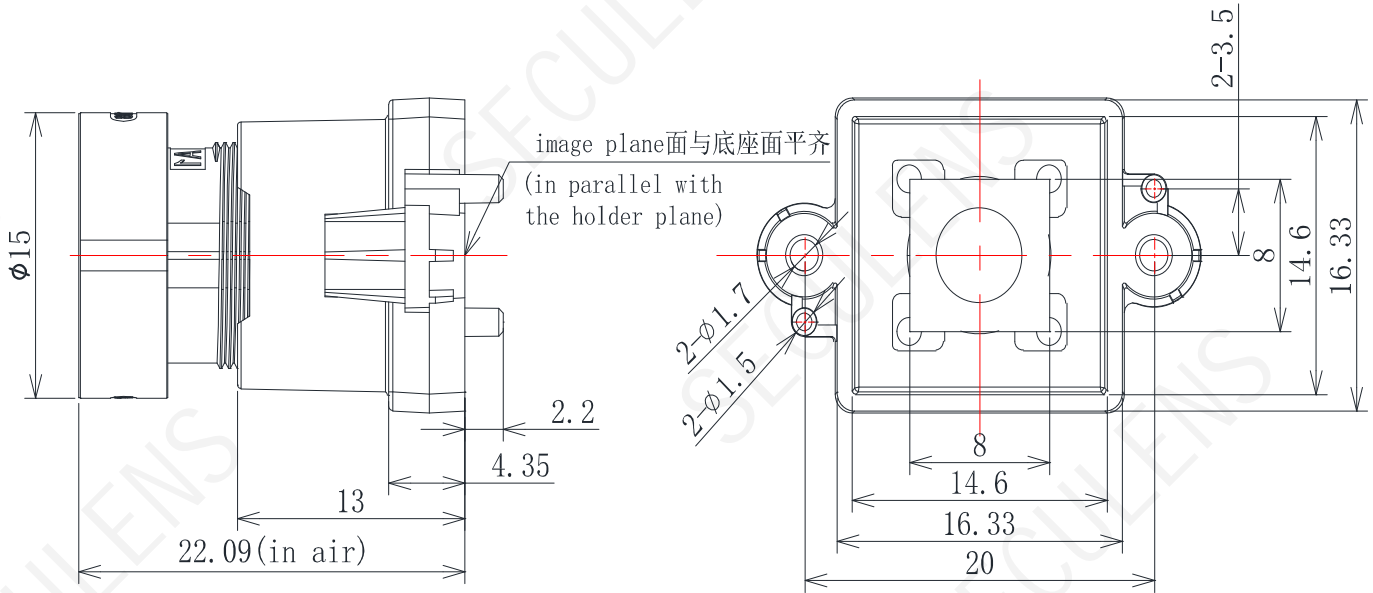
5 主要参数 (Main Items)

5.1 光学参数规格 (Optical Specifications)

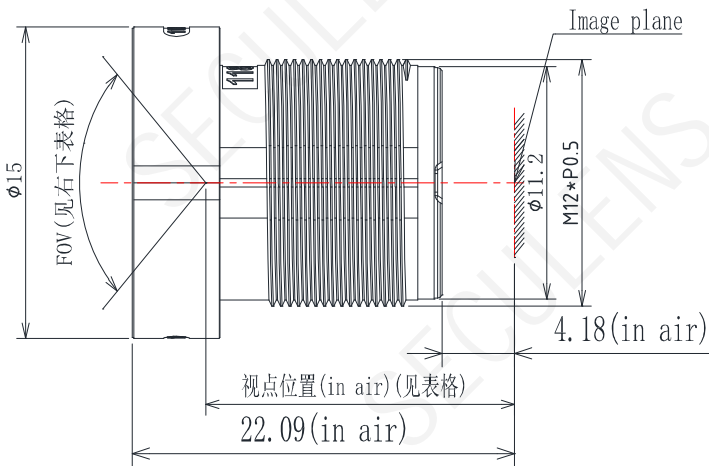
NO.	项目 (Items)	具体规格 (Specification)					
1	F No.	1.1±10%					
2	焦距(Focal-Length)	3.3±5%					
3	光学后焦 (Optical Back Focal Length)	4.25±0.2 (in air)					
4	机械后焦 (Mechanical Back Focal Length)	4.18±0.2 (in air)					
5	镜头总长(TTL)	22.09±0.2 (in air)					
6	像面大小 (Image circle)	Φ6.9 (MAX)					
7	镜片构成 (Lens structure)	2G5P					
8	接口 (Mount)	M12*P0.5					
9	镜头与底座螺纹配合扭力 (Clamp Force)	60-600gf.cm					
10	视场角(FOV)	sensor型号	H(水平)	V(垂直)	D(对角)		
		1/2.7"(16:9)	109.7°	57.6°	131.0°		
		1/2.8"(16:9)	105.2°	55.5°	125.1°		
		1/3"(OV4689)	100.6°	53.8°	119.7°		
11	光学畸变 (Optical Distortion)	1/2.7"	-54%	1/2.8"	-50%	1/3"	-46%
13	相对亮度 (Relative Illumination)	1/2.7"	43.5%	1/2.8"	48%	1/3"	52%
14	最大主光线夹角 (CRA)	1/2.7"	15.1°	1/2.8"	14.7°	1/3"	14.3°
15	近摄距 (M.O.D)	2.0m					
16	解像标准 (Resolution)	分辨率 (Resolution): 1920*1080 (2MP)					
18	重量 (Weight)	/					
19	操作方法 (Operation)	聚焦 (Focus)			手动 (Manual)		
		光圈 (Iris)			固定 (Fixed)		
20	环保&安全 (HSF&Safety)	RoHS					

5.2 机构参数规格 (Mechanical Specifications)

5.2.1 外形尺寸图 (Dimension Figure)

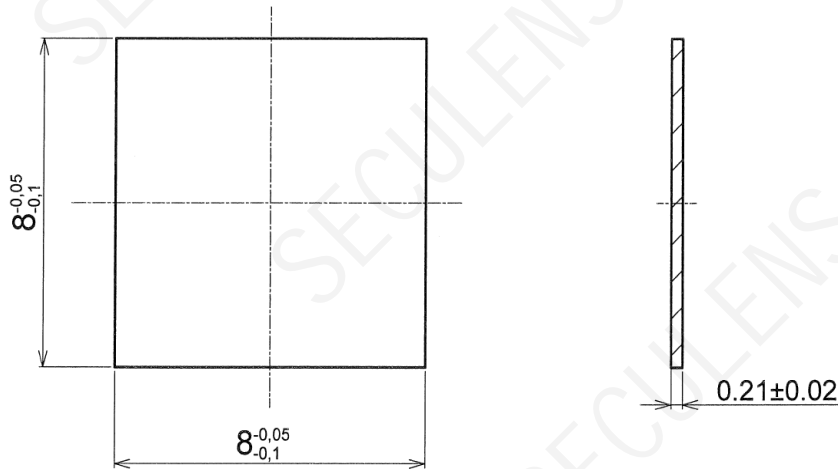


5.2.2 视点图 (Viewpoint Figure)



像面大小 (image size)	Dfov	视点位置 (mm) viewpoint position
Φ4.41	80.3°	17.22
Φ5.60	105.9°	18.23
Φ6.00	115.3°	18.59
Φ6.17	119.5°	18.75
Φ6.39	125.1°	18.96
Φ6.61	131°	19.19
Φ6.9	139.2°	19.51

本规格书未注单位 (Unit is not indicated in the document): mm
未注公差 (Unmarked Tolerance): $\Phi \pm 0.1$, $L \pm 0.15$

5.3 IR-FILTER规格参数 (IR-FILTER Specifications IR0618)


② 滤光片镀膜规格要求 Filter coating specification:

	Wave Length(nm)		Transmission	
	0°	30°	0°	30°
UV面	350~395, T(Ave)		≤3%	
	UV T50% 415	UV T50% 400	±10nm	±10nm
	440~565, T(Ave)		≥92%	≥88%
	440~565, T(Min)		≥86%	≥80%
	IR T50% 640~653nm			
	700~725, T(Ave)		≤5%	
	725~1100, T(Ave)		≤3%	
	斜率80%~20%		≤20nm	

滤光片信赖性要求 Filter reliability requirements:

阶段 stage	温度 temperature	相对湿度 Relative humidity	保温时间 soaking time
1	+85° C	85%	48小时
2	+100° C	0%	24小时
3	-20° C	0%	24小时
4	室温 room temperature	室内状态 state of the indoor	24小时

要求ask: 实验前后分光特性不允许出现变化, 试验后膜层不能出现剥落及裂纹 NO changes for spectral characteristics before and after test, no coating cracked or dropping off after test.

5.4 光学检测标准 (Optical Performance)

No.	检测项目 (Items)	描述 (Description)
1	解像力 (Resolution)	1.1: TV实拍解像条件 (Condition) A:Chart:社内实拍chart B:拍摄距离(Distance): $80\pm 5\text{cm}$ 1.2: 拍摄方法(Method) A:旋转镜头调焦得到最清晰的像面中心(Adjust the machine interface to get the most clear image plane center) 1.3: 拍摄标准(Criteria) 2MP: 中心: 1100线清晰; 0.7Y: 500线清晰; 0.9Y: 300线清晰; center:1100line clear;0.7Y:500 line clear; 0.9Y:300 line clear
2	外观标准 (Appearance Standards)	2.1镜头内污 (LENS DUST) A:规格 60/40 伤痕: 宽度 $<60\mu\text{m}$, 长度和 $<D/2$, $\leq 15\mu\text{m}$ 不计; 脏污: 单点直径 $<400\mu\text{m}$, 200~400 μm 点 ≤ 3 个, $\leq 200\mu\text{m}$ 不计。 2.2其他外观(Other appearance) 外表面颜色均匀, 无明显缺陷、污渍、异物伸出、明显划伤和收缩; 脏水不得溢入有效通光内。 2.1 LENS DUST A: Specification 60/40 Scratch: width $<60\mu\text{m}$, total length $<D/2$, $\leq 15\mu\text{m}$ ignored; Smudge: Single dot diameter $<400\mu\text{m}$, 200~400 μm dot ≤ 3 pcs, $\leq 200\mu\text{m}$ ignored. 2.2 Other appearance Outside surface uniform color; no visible flaws, stains, foreign bodies extended, obvious scratch or contraction; no glue spill into the effective aperture.

5.5 环境参数规格 (Environment Specifications)

No.	环境描述 (Items)	条件 (Description)
1	存放环境 (Storage condition)	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$; 10-90%RH (No condensing)
2	工作环境 (Operation condition)	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$; 10-90%RH (No condensing)

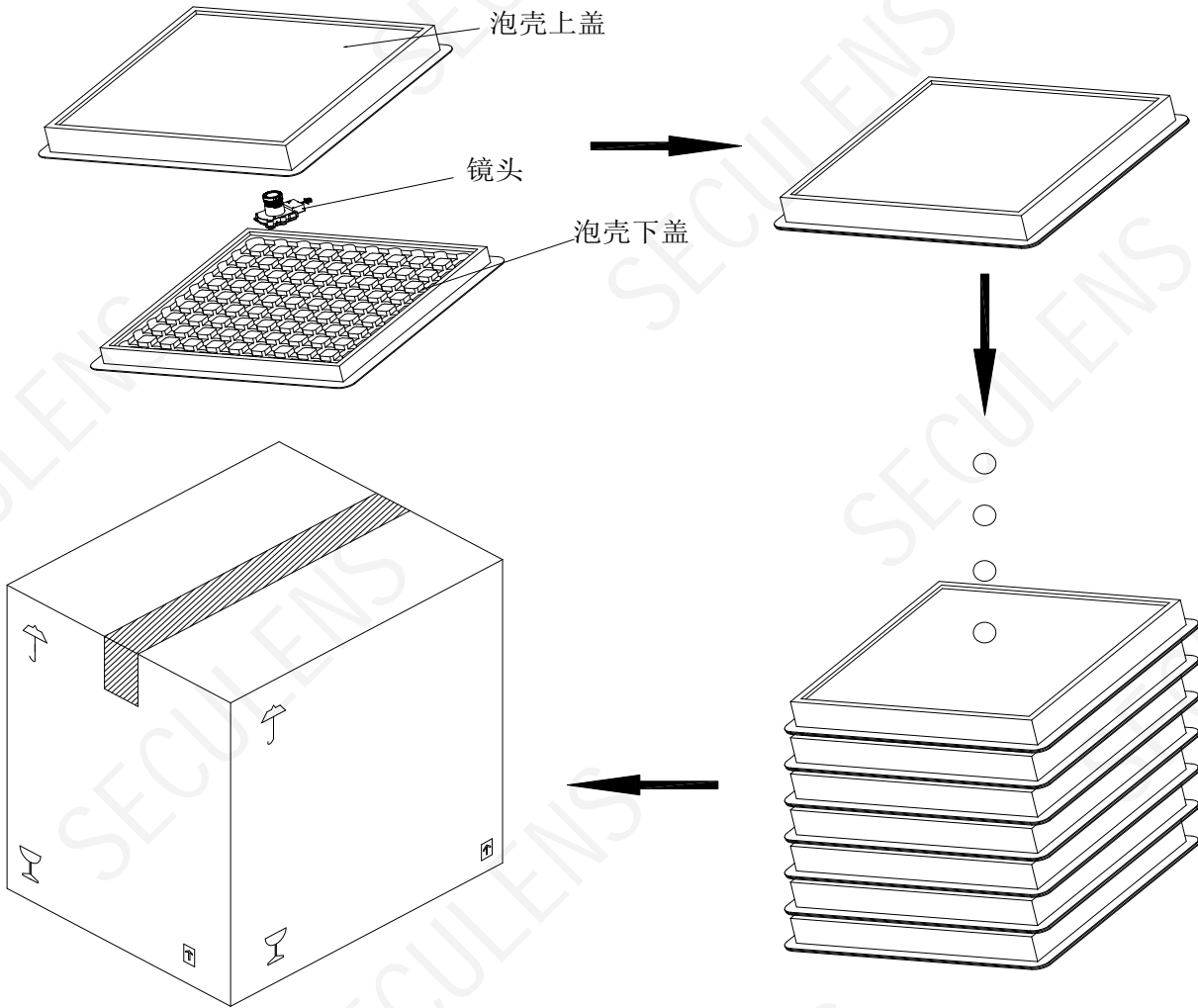
6 信赖性测试(Reliability Test)

No.	项目 (ITEM)	测试条件 (CONDITION)
1	高温存放试验 Storage Test At High Temperature	镜头在80℃温度中存放48小时, 之后再存放在常温常湿环境中恢复6小时后, 所有规格满足规定要求 All specification are to be satisfied after lens is exposed to 80℃ for 48 hours and then to normal temperature/humidity for 6 hours
2	低温存放试验 Storage Test At Low Temperature	镜头在-30℃温度中存放48小时, 之后再存放在常温常湿环境中恢复6小时后, 所有规格满足规定要求 All specification are to be satisfied after lens is exposed to -30℃ for 48 hours and then to normal temperature/humidity for 6 hours
3	冷热冲击试验 Temperature Cycle Test	镜头在-30℃条件下保持30分钟, 然后升温至+80℃, 稳定后保持30分钟作为一个周期, 共10个周期。之后再存放在常温常湿环境中恢复6小时后, 所有规格满足规定要求 All specification are to be satisfied after lens is exposed to -30℃ for 30min, Tank temperature change +80℃ for 30min as one cycle, 10 cycle shall be performed. And then to normal temperature/humidity for 6 hours
4	振动试验 Vibration Test	镜头在振幅为1.5mm、频率为10-55Hz的正弦波参数下, 在三个互相垂直的轴线上依次振动25分钟后, 镜头无松动并满足所有规格要求 All specification are to be satisfied after lens is subjected to the sine wave of 1.5mm amplitude and 10-55Hz directions for 25 minutes each

7 包装规格 (Package)

1. 镜头盖上镜头盖后，放入泡壳。

2. 盖上泡壳上盖，泡壳上贴标示票。



4. 密封胶带，箱子外面贴标示票。

3. 装满镜头的泡壳抽真空后重叠放入纸箱。

注：包装纸箱可根据客户订单灵活选用，以上包装以纸箱（320*240*490）包装示例

数量：

30 PCS/盒

17 盒/箱

510 PCS/箱