

样品规格书

SAMPLE SPECIFICATION

产品名称(Part Name): 摄像头模组

产品型号(Part Number): SAT-C7080P5438GL078YZ65

ERP编号(ERP Number): 1050010012

核准 approved by	客户意见 Customer Comment

拟制 Prepared by	审核 Reviewed by	批准 Approved by

版本记录(Record of Revision)

版本号 Rev	修改日期 Issued Date	修改内容 Description	编者 Editor
REV1.0	2017-06-29	初版	杜文

1、 适用范围 (Scope of application):

本样品承认书所含信息适用于视安通电子有限公司设计的 SAT-C7080P5438GL078YZ65 模组。样品承认书包含了模组规格、外观尺寸、可靠性试验以及包装运输等关键信息。

This approval sheet contains the general information of SAT-C7080P5438GL078YZ65 camera module designed for SAT ELECTRONIC CO.,LTD. It contains the key features of the module as well as the information for the Specification、 Outline Dimensions、 reliability test、 packaging and transportation.

2、 概述 (Summary):

SAT-C7080P5438GL078YZ65 模组采用高性能1/4" 派视尔PC7080图像传感器, 实现不低于550线的高水平分辨率; 提供大于62dB出色的信噪比 (S/N), 图像色彩真实、场景细腻。PAL或NTSC模拟复合视频信号输出, 具有颜色、锐度、 γ 校正, 自动曝光、自动白平衡、自适应背光补偿等功能。宽电压输入, 能自动适应6-22V电压输入, 接口输入端具有12V电压防反插保护功能, 广泛应用于楼宇可视对讲产品上。

SAT-C7080P5438GL078YZ65 camera module with high-performance 1/4 "PIXELPLUS PC7080 image sensor, achieve not less than 550TV lines of high resolution; excellent signal-to-noise ratio provides greater than 62dB(SNR), image color real delicate scene. PAL or NTSC analog composite video signal output, color, Sharpness, γ correction, auto exposure, auto white balance, adaptive backlight compensation function. wide voltage input - adapt to the 5-20V voltage input, and interface input of 12V voltage anti-anti-plug protection function, widely used in building visual intercom products.

3、 模组总规格(Camera Module General Specification):

项目(Item)	规格(Specification)	备注(Notes)
外形尺寸: Outline dimension :	54mm×38mm×23mm	公差:参照第六页, 外观尺寸 (tolerance: Refer to the sixth page,outline dimensions)
有效像素: Effective image pixel:	648X488	
感光格式/optical format:	1/4inch	
像素大小/ Pixel size:	5.6μm×5.6μm	
工作温度范围: Working temperature range:	温度/Temperature: -20℃~+60℃	
贮存温度范围: Storage temperature range:	温度/Temperature: -30℃~+70℃	
电源电压/Power Voltage:	+5V~+20V	
消耗电流/Current consumption:	常态Normal: <50mA	LED灯不启动(12V)
峰值波长 / Peak wavelength:	p 650n	
负载电平 (75欧负载)	峰峰值	1. 1Vp-p
	行同步	326mVp-p
	色同步	333mp-p
帧率/Frame Rate:	50fps(PAL)	
白平衡/White Banlance:	自动/Auto	
曝光/Exposure:	智能背光补偿/ABLC	一次判定
最大信噪比/SNR _{MAX} :	62dB	
图像输出格式: Image Output Format:	彩色/Color PAL/CVBS	
增益/Gain:	自动增益控制/AGC	随环境变化自动增益控制
低照度	无光补偿 0. 1LUX, 本模组 为有灯光补偿(白光或红 光), 一米内 0 LUX	
光源/Lamp-house:	冷白光/White	随外部环境亮暗自动开启
电磁干扰性/EMI:		-----

4、 模组镜头规格(Camera Module Lens Specification):

NO.	项目(Item)	规格(Specification)
1	镜头尺寸(Lens Size)	1/4"
2	镜头结构(Lens Construction)	4片玻璃 + 1 IR650 Filter
3	焦距(Focal Length)	3.6mm
4	光圈(F.NO.)	F2.2玻璃
5	像场角(Field of View Angle)	对角线视角: 78°
6	对焦距离(Focus Distance)	0.5m
7	景深(Focusing Range)	0.2m---∞
8	解像力(Image Quality)	Center>550TVL
9	畸变(TV Distortion)	<15%

5、 可靠性测试(Reliability Test)

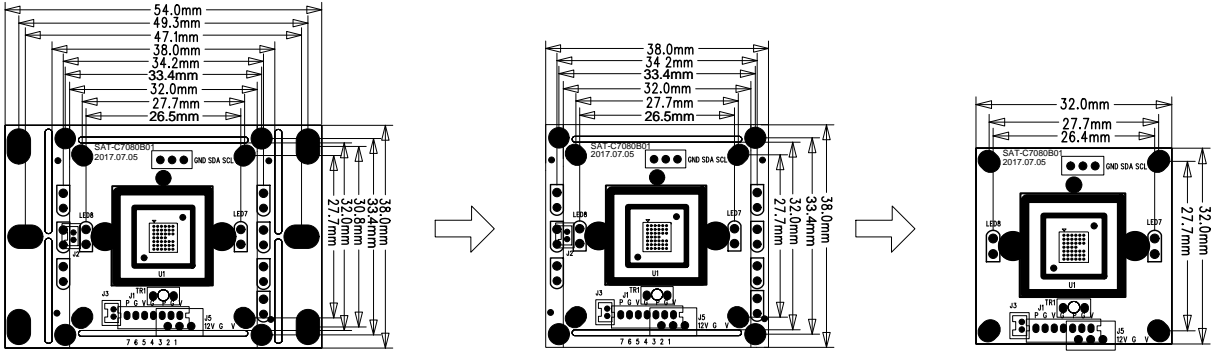
试验内容如下/Contents of test as follow:

NO.	试验项目/Test Item	试验条件/Test Conditions	样品数量 Sample Number	判定标准 Judge Standard
1	恒温恒湿贮存试验 High Temperate and Humidity Storage	温度/Temperature: 50℃; 湿度/Humidity: 95%RH; 持续测试时间/Test duration: 48H	3	产品无外观和功能问题 /Providing no-problem on externals and functions of the product
2	高温贮存试验 High Temperate Storage Test	温度/Temperature: 70℃; 持续测试时间/Test duration: 120H	3	在常温中恢复一小时后产品无外观和功能问题 After One hour recovery time of normal temperature, providing no-problem on externals and functions of the product
3	低温贮存试验 Low Temperate Storage Test	温度/Temperature: -30℃; 持续测试时间/Test duration: 120H	3	
4	高温功能试验 High Temperate	温度/Temperature: 60℃; 8小时通电/8 hours energize;	3	试验中对产品进行*冷启动, 产品在 100ms 内输出稳定的视频信号, 且在 8 小时测试中能输出稳定的视频信号 Cold-start test the product, the product 100mS output stability within the video signal, and the product can be output stably video signal in the 8-hour test.
5	低温功能试验 Low Temperate Function Test	温度/Temperature: -20℃; 8小时通电/8 hours energize;	3	
6	高低温循环功能试验 High and Low Temperate cycle Test	温变速度 /temperature rate of change:-30 ℃ ~70 ℃ < 30min(3 ℃/min) 持续测试时间 /Test duration:96H	3	
7	振动试验 Vibration Test	产品沿不同轴向各振动 10 次/ Products along different axis of vibration 10 times	3	产品无外观和功能问题 Providing no-problem on externals and functions of the product
8	跌落试验 Drop Test	跌落高度 /Distance height:30~150cm	3	产品无外观和功能问题(要保护镜头) Providing no-problem on externals and functions of the product (with lens protection)
9	静电试验ESD TEST	气隙放电 /Air-gap discharge: ±4KV/±6KV/±8KV 接触放电 /Contact Discharge: ±4KV/±6KV	3	产品无外观和功能问题 Providing no-problem on externals and functions of the product
10	反插保护试验	12V电压反插工作1分钟后, 摄像头有保护, 不损坏。	3	产品无外观和功能问题 Providing no-problem on externals and functions of the product

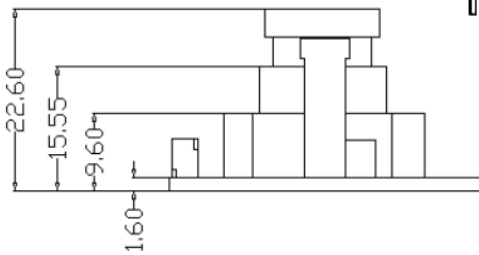
*冷启动: 在高、低温环境中贮存 1 小时以后, 对产品进行上电启动。

6、外形尺寸(Outline Dimensions):

外形尺寸图如下/Outline dimensions drawing as follow:



未标注公差其误差为 $\pm 0.3\text{mm}$



Socket Numbe	P	G	V
J1	POWER	GND	VIDEO
Socket Numbe	12V	G	V
J5	POWER	GND	VIDEO
Socket Numbe	12V	G	V
CN1	VIDEO	GND	POWER

7、包装及过程(packaging and packing process)



将摄像头模组放入防静电托盘中

8、 标签(Label)

每一个包装盒外面标签的默认信息如下:

The default label for each outside box should have the following information:

客户/Customer:

客户料号/Customer Part Number:

订购单号/P.O Number:

数量/Total Quantity: 料号/Sunny Part Number:

日期码/Date Code:

批号/Lot Number: 包装日期/Pack Date:

备注/Remark:

9、 运输和处理(Transportation and Handling)

- 1、在运输期间,尽可能减小机械振动和冲击,避免产品跌落。
- 2、因静电和过电压可能引起产品损坏或性能退化,故不要在静电或过电压环境中使用产品。
- 3、应小心避免对产品过应力。

1. Minimize any mechanical vibration or shock and avoid dropping of the product during transportation.

2. Since the application of static electricity or over voltage may cause the product damage or deterioration of its reliability, please do not use the product to any static electricity or over voltage environment

3. Caution shall be taken to avoid overstress to the product.

10、 模组命名规则 (Module Naming Rules)

SAT - X XXXX X XXXX XX XXX XX XX
1 2 3 4 5 6 7 8 9 10

段数	1	2	3	4	5	6	7	8	9	10	
字符数	3	1	1	4	1	4	2	3	2	2	
含义	公司LOGO	无意义	camera	感应器型号	图像制式	PCB尺寸	夜视类型	镜头角度	镜头类型	镜头波长	
示范	SAT	-	C	7080	P	5438	CL	090	YZ	85	
常用含义说明				7080	PC7080S	P PAL	54 54*38mm	GL 光敏+LED	056 56°	YZ 圆柱体通光孔2.2mm	65 650nm
				0139	MT9V139	N NTSC	38 38*38mm	ZL 自动LED	078 78°	ZT 锥体通光孔1.2mm	85 850nm
				0130	AR0130		32 32*32mm	NL 无LED	092 92°	ZK 针孔通光孔1.2mm	94 940nm
							CL 常亮LED	120 120°	WJ 无畸变通光孔3.0mm		

11、 电源配线定义 (如下图) (power line wiring definition)

