深圳市安威无线科技有限公司

Shenzhen Anwei Wireless Technology Co., Ltd

承认书

APPROVAL SHEET

客户 Customer	长光禹辰 Yusense Information Technology and Equipment (Qingdao) Co., Ltd	规格型号 Specs	双通道相机 Dual channel camera
安威料号 Part Number	AW006-STDXJ-021-A0	频　　段 Frequency Band	2.4G/5GWiFi
颜　色 Color	黑色black	版　　本 Edition	REV:A
销　售 Salesperson	吕景辉	设　　计 Design	宋兵伟
结　构 Structure	覃云林	确　　认 Confirm	宋兵伟
日　期 Date	2023/09/21	签字日期 Signing Date	
客户确认 Customer confirmation:			
携手共进 共创未来 Join hands to create the future			

目录

一、产品规格Product specifications

报告主要提供双通道相机天线性能的参数测试。 （天线如下图 1 所示）

The report mainly provides parameter testing for the performance of dual channel camera antennas. (The antenna is shown in Figure 1)

图 1 **双通道相机 WiFi** 天线

二、电器性能Electrical performance

1.规格标准 Specification standards

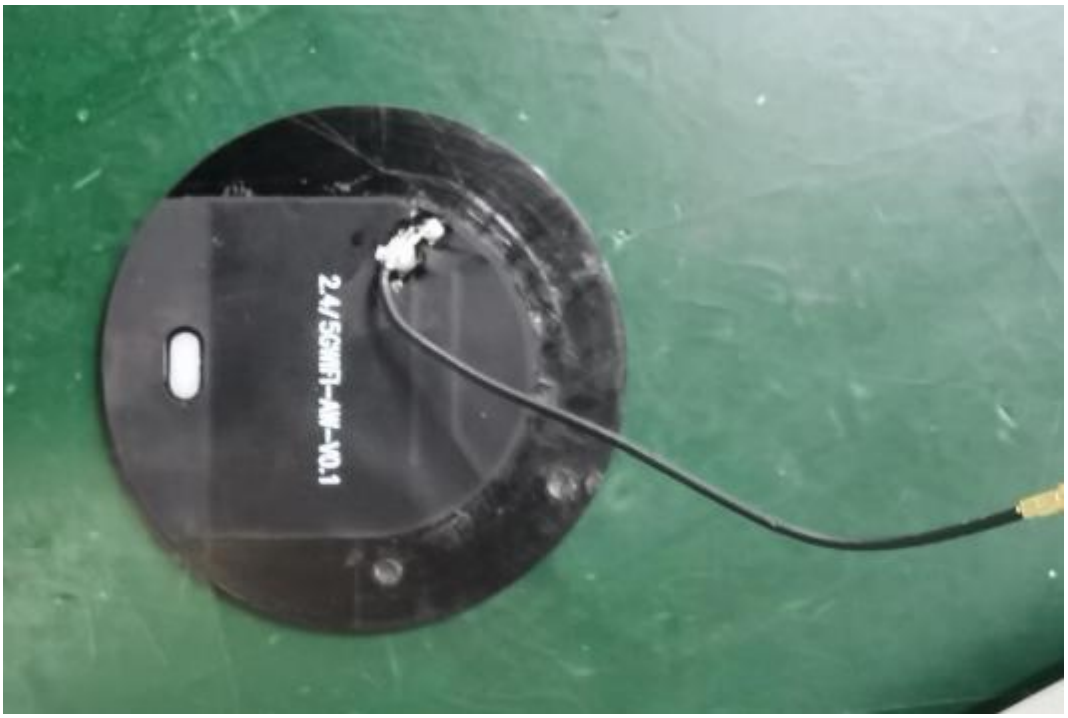
双通道相机 天线工作频段在 2400-2500MHz/5100-5800MHz，在此频段产生谐振，

驻波比如下：
The dual channel camera antenna operates in the frequency range of 2400-2500MHz/5100-5800MHz, generating resonance in this frequency range,

The standing wave ratio is as follows:


Marker 2 2.400000000 GHz
SWR 1.000/ Ref 1.000 [F1]
1 2.5000000 GHz 1.7210
2 2.4000000 GHz 1.8815
3 2.3000000 GHz 1.4598
4 2.8000000 GHz 2.3551
5 2.4000000 GHz 2.7246
6 2.0000000 GHz 2.1289
7 2.1000000 GHz 2.2684
8 2.5000000 GHz 2.7740
9 2.8000000 GHz 1.9185

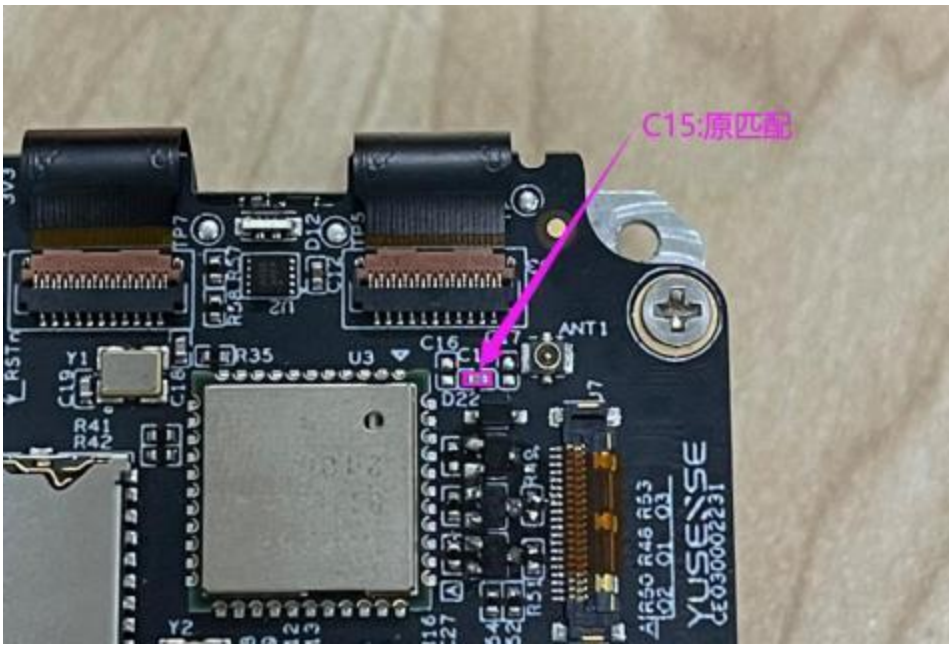
2.天线装配方式（位置） Antenna assembly method (position)



3.天线的匹配电路 Matching circuit of antenna

天线结构方式：同轴线+FPC，匹配为主板原匹配，我司没有改动天线的匹配电路。

Antenna structure: coaxial line+FPC, matching with the original motherboard matching, our company has not changed the matching circuit of the antenna.



三、天线参数测试 Antenna parameter testing

1、增益与效率：Gain and efficiency:

Gain&Efficiency		
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
2400	-3.42	21.18
2450	-5.07	21.29
2480	-5.1	20.89
2500	-5.47	20.09
5100	2.66	33.12
5200	3.43	35.97
5300	3.97	39.12
5400	3.29	36.32
5500	2.89	33.73
5600	3.57	33.67
5700	3.83	33.87
5800	3.78	39.62

2、产品内部环境处理：Internal environmental treatment of the product:

暂时没有特别要求的环境处理，按照客户的自然装机状态。

There are currently no special requirements for environmental treatment, according to the customer's natural installation state.

四、建议与结论 Suggestions and conclusions

此报告是根据客户提供双通道相机机器的最终版测得的天线电器性能。

从如上测试数据可以看到，此天线提供了较好的电器性能。

This report is based on the antenna electrical performance measured in the final version of the dual channel camera machine provided by the customer. From the above test data, it can be seen that this antenna provides good electrical performance.

五、结构图纸 Structural drawings