

深圳市艾汇科技有限公司

Antenna Specification Document

Antenna Sample Confirmation From

Vendor Name	ShenZhen Aihui Technology Co., Ltd				
Customer Name	Rebos				
Sample Name	SK11-Panoramic Camera				
Product Model Part Number	External Antenna				
Sample Specifications Specification	Bus length:225 mm, 1.13 mm wire diameter, black 1 generation terminals, white ultrasonic housing; Exposed wire length:185 mm				
Inspecting item Inspection Item	Performance	Total Appearance	structure	Other	Result
	OK	OK	OK	OK	Qualified
Note Remark					
Audit		Engineer Audit	Cao Yang	Sales Confirm	
The following are filled by Customer					
Customer Evaluation					
Signation/ Chapter by Customer	Date/date: 2026.03.09				

Antenna Test Report

Testing Unit: Shenzhen Aihui Technology Co., Ltd.			
Material :	External + Coaxial Cable		
Antenna Type	MonopoleType	Polarization Method Polarization mode	Linear
Application Scenarios			
Working Frequency Band	WIFI	VSWR	≤2
Power Power	Max: 2W	Impedance Impedance	50Ω
Gain dBi	≥2dBi		
Testing facility Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
Antenna Description:: 1. Grounding processing and picture description: no 2. Need to change the motherboard to match: no ● Test voltage: 3.6V, check the antenna contact is good before testing. ● The RF cable of the integrated tester is kept in a natural state and can not be curled. Specification:test the specified power level, all indicators must conform to the specifications.			

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1、Project Image

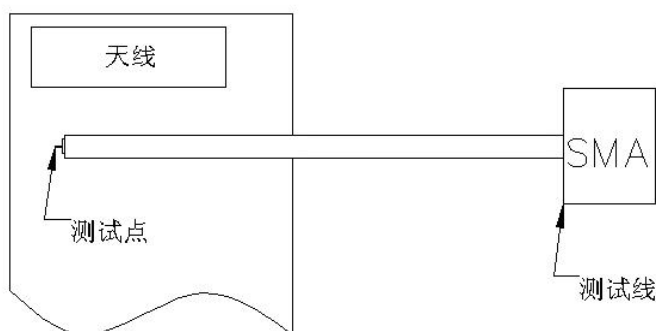
Note: The customer's final validated antenna performance prototype will be retained by our company for at least one year to facilitate analysis and optimization for mass production.

Abnormal situation: Ensure antenna shipping quality

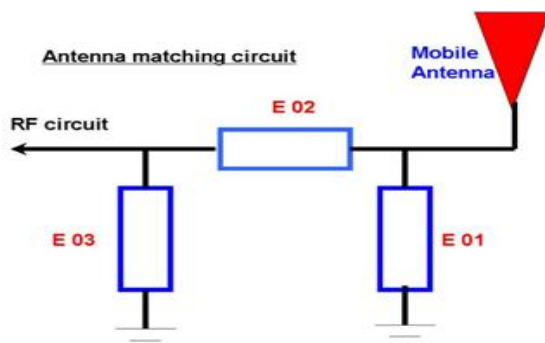
2、Test Fixture

Objective: To measure the antenna's passive parameters as accurately as possible.

Construction method: The handheld device utilizes a 50-ohm coaxial cable, with one end connected to the test point at the rear end of the matching circuit (front end of the RF test port) on the mobile phone's motherboard, and the other end connected to an SMA connector. The schematic diagram is shown below:



3、Antenna Matching Circuit



Modify Point / Modify

E01	E02	E03
No	No	No

Note: No modifications made to the match.

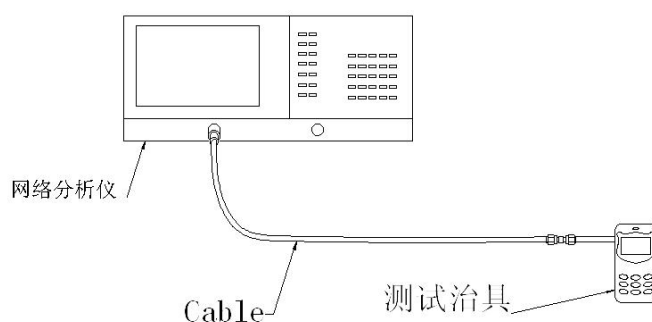
4. S11 Test

4.0 S11 Test Method Description

Test Equipment: Network Analyzer (E5071C)

Testing Method: Connect a 50-ohm cable from the instrument's test port, calibrate it using a calibration component, then connect it to the SMA connector of the mobile testing device. Record the return loss and standing wave ratio at the corresponding frequencies.

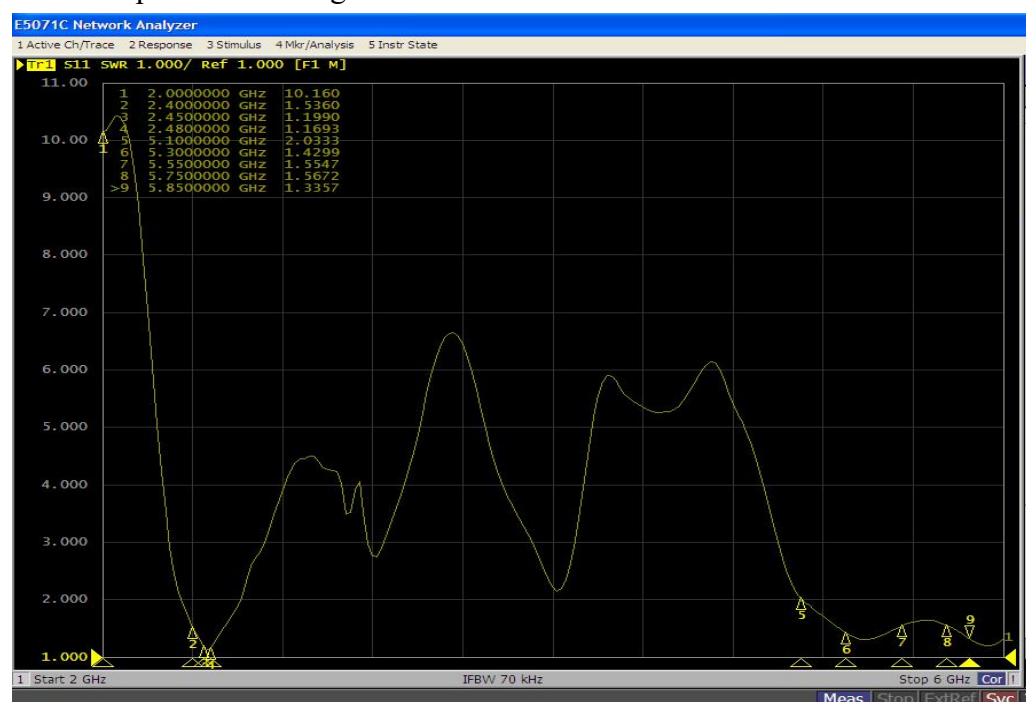
The test schematic is shown below:



Test Schematic

4.1 S11 Parameter Images

The passive standing wave ratio of the main antenna



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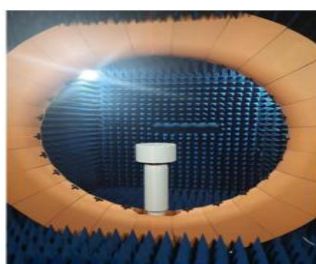
5、 Darkroom Testing Equipment and Data

6.0 testing facility

Testing System: Shielded Chamber

Test environment: Temperature **22°C** $\pm 3^{\circ}\text{C}$, humidity 50% $\pm 15\%$

Testing equipment: Use the Agilent E5071C network analyzer for passive data testing, and the CMW500 comprehensive tester for active data testing.



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6. Antenna Active Testing Data

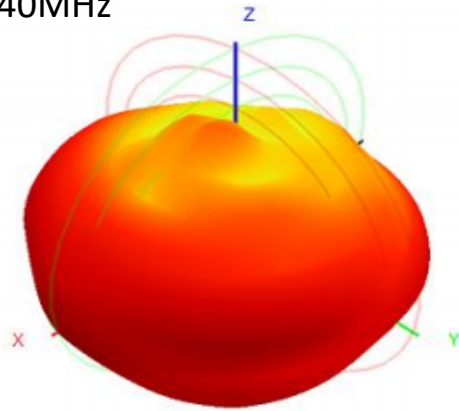
Frequency Band	WIFI-2.4G-B模			WIFI-2.4G-G模		
channel	L	M	H	L	M	H
TRP	19.36	19.42	19.52	18.52	17.55	17.52
TIS	-89.65	-90.21	-88.95	-72.35	-72.55	-72.14
Frequency Band	WIFI-2.4G-N模					
channel	L	M	H			
TRP	17.36	17.41	17.06			
TIS	-69.35	-70.21	-69.81			

6.1 Antenna Passive Testing Data

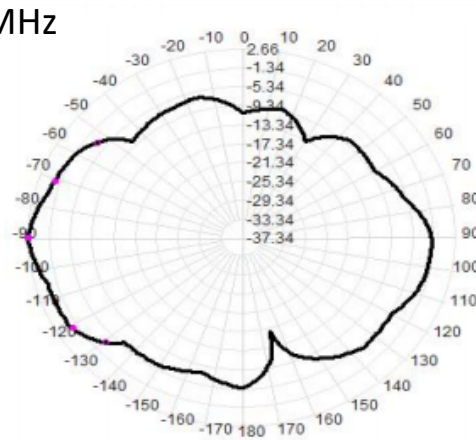
Test data :		
WIFI 2.4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	62.12	2.40
2410	63.63	2.41
2420	62.85	2.25
2430	67.15	2.54
2440	62.61	2.66
2450	65.30	2.39
2460	64.15	2.51
2470	66.32	2.32
2480	61.52	2.05
2490	62.30	2.52
2500	64.16	2.15

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2440MHz



2440MHz



7. Antenna Assembly Schematic Diagram

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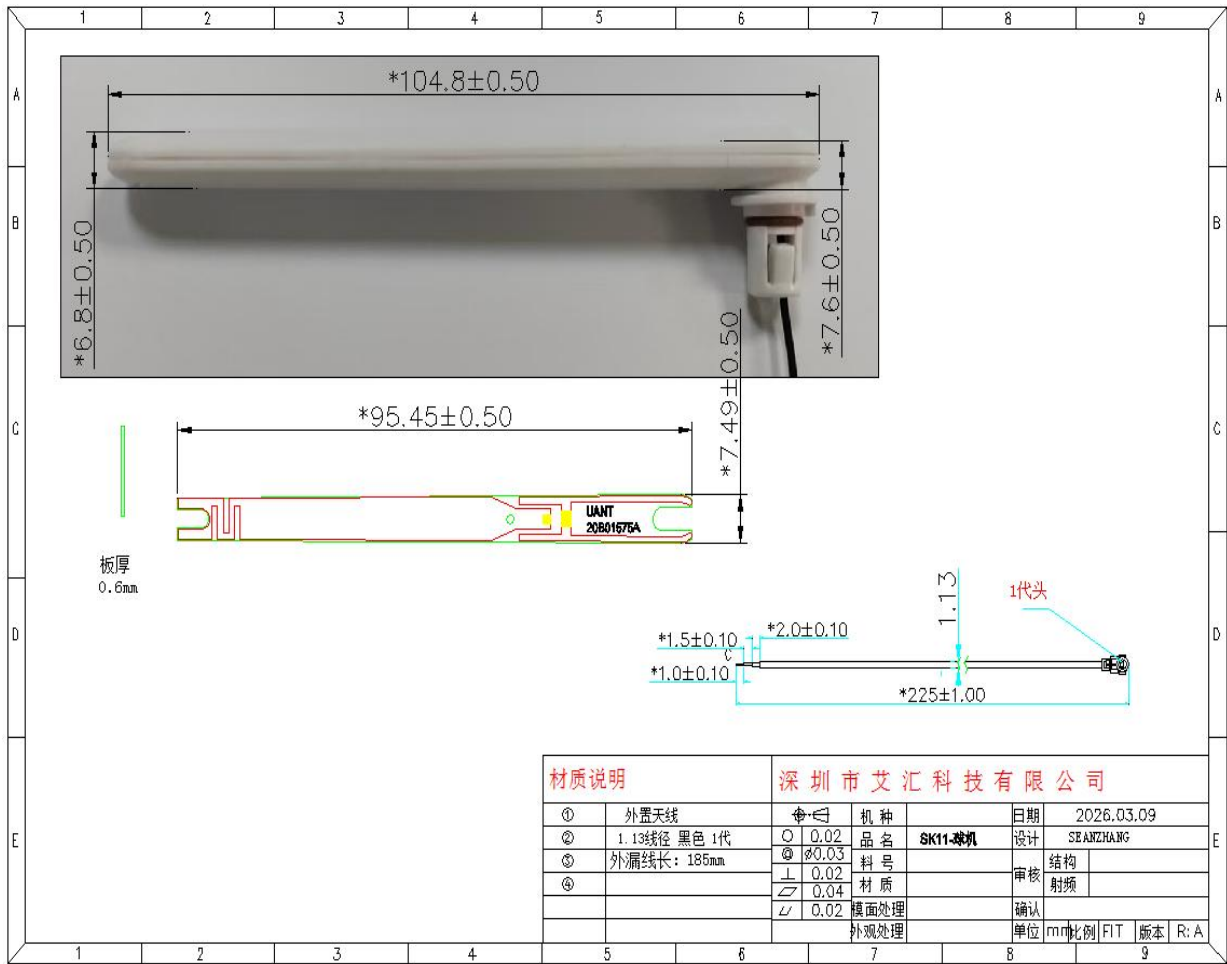
8、 Antenna Mass Production Specifications

During mass production of antennas, the standing wave ratio serves as the testing standard. Depending on project-specific requirements, the following standards apply:

Frequency	Mass Production Standards
2400MHZ-2500MHZ	VSWR (mass production performance) < VSWR (recognized performance) + 0.5

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9.Structural Drawings



10、 Sample Size Inspection Report

Model: SK11 Dome Camera

Date: 2026.03.09

approval :

examine and verify :

test :

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11、 Reliability Testing Report

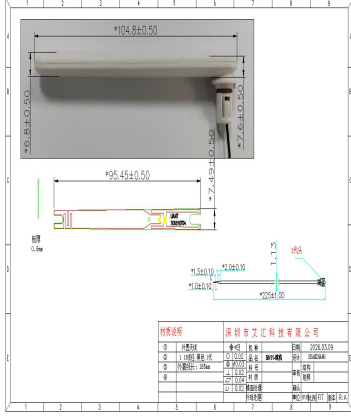
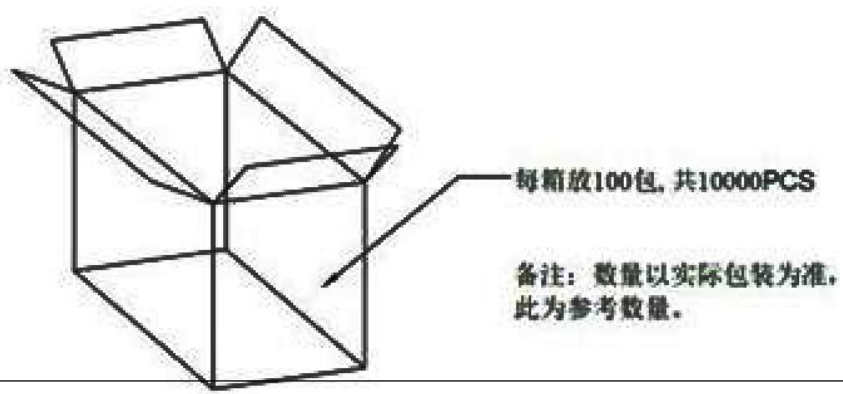
Salt Spray Testing Report

number :

Product name		Number of Tests		5set			
Product Material Number		Testing standard		GB2423. 17			
Examination date		Product Materials					
Testing time :							
Test item	Requirements Standards	Actual numerical value	Judge	Test item	Requirements Standards	Actual numerical value	Judge
Test Instrument Specifications	KD-60	KD-60	OK	Testing time	48H	48H	OK
Salt Spray Test Types	NSS neutral	NSS neutral	OK	Salt spray chamber temperature	35℃	35℃	OK
Saline pH value	6. 5-7. 2	6. 5-7. 2	OK	Salt spray deposition amount (H-80℃)	1-2ml	1. 8ml	OK
Spraying Method	Continuous Spraying	Continuous Spraying	OK	Product Material	Yellow metal	Yellow metal	OK
Composition of saline solution	5%NaCl	5%NaCl	OK	Compressed Air Pressure Reduction	1 ± 0. 1KG/CM ²	1	OK
Saturation temperature	47℃	47℃	OK	Sample placement angle	45°	45°	OK
Test Observation Time	Observation Phenomenon						
4H	NA						
8H	NA						
12H	NA						
16H	NA						
20H	NA						
24H	NA						
48H	NA						
Classification criteria: According to the rating method specified in National Standard 5944-86, grades 9 and above are deemed qualified.							
Final Judgment Result	Qualified						
Tester			Examine and verify			Examine and approve	
Note: Common salt spray test methods include the NSS medium salt spray test, the AASS acetate salt spray test, and the CASS copper-acetic acid accelerated test.							

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Shenzhen Aihui Technology Co., Ltd. Product Packaging Operation Specifications

Customer: Reibos		Packaging Name: SK11		Bale number :		Packaging Version: TEST: A	
Material Details:	Number	Name of a part	Specifications	Dosage	Packaging Product Illustration		
	PE	Seal the package	/	/			
	SYC-BZ-01	Carton	/	/			
Job step	1. Place the required packaging materials in a location conducive to work. 2. Packaging shall be performed using cardboard boxes or PE bags in accordance with product packaging specifications. 50 pieces per pack.				Matters need attention	1. Operators must wear gloves when working. 2. Pay attention to the quantity of items in the package; do not overpack or underpack. The last digit must be specified. 3. Cartons should not be stacked too high to prevent overflow due to excessive weight. Glue 。	
Figure Description							
Remarks							
Approval		Examine and verify		Fabrication		Date	

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