

TEST REPORT

Applicant: Shenzhen Sulang Technology Co.,Ltd

Address of Applicant: Area C, 18th Floor, Building 12, Lehui Science and Technology Innovation Center, No. 489 Jihua Road, Bantian Community, Longgang District, Shenzhen City,China.

Manufacturer/Factory: Shenzhen Sulang Technology Co.,Ltd

Address of Manufacturer/Factory: Area C, 18th Floor, Building 12, Lehui Science and Technology Innovation Center, No. 489 Jihua Road, Bantian Community, Longgang District, Shenzhen City,China.

Equipment Under Test (EUT)

Product Name: Digital Microscope

Model No.: inskam365, inskam365A, inskam365B,inskam365C

Trade Mark: inskam

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: April 23, 2025

Date of Test: April 23- 29, 2025

Date of report issued: April 29, 2025

Test Result : Pass *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

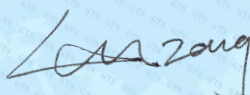
Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	April 29, 2025	Original

Prepared by:

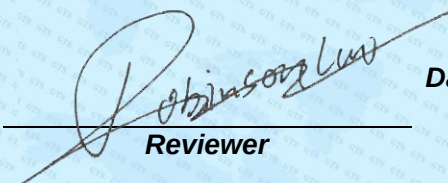


Date:

April 29, 2025

Project Engineer

Reviewed by:



Date:

April 29, 2025

Reviewer

3 Contents

1	COVER PAGE.....	1
2	VERSION	2
3	CONTENTS	3
4	TEST SUMMARY	4
5	GENERAL INFORMATION	5
5.1	GENERAL DESCRIPTION OF EUT	5
5.2	TEST MODE AND TEST VOLTAGE.....	5
5.3	DESCRIPTION OF SUPPORT UNITS.....	5
5.4	DEVIATION FROM STANDARDS.....	5
5.5	ABNORMALITIES FROM STANDARD CONDITIONS	5
5.6	TEST FACILITY.....	6
5.7	TEST LOCATION.....	6
6	TEST INSTRUMENTS LIST.....	7
7	TEST RESULTS AND MEASUREMENT DATA	8
7.1	RADIATED EMISSION.....	8
8	TEST SETUP PHOTO	11
9	EUT CONSTRUCTIONAL DETAILS.....	12

4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	N/A
Radiated Emissions #	FCC Part15.109	ANSI C63.4	Class B	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. N/A: Not applicable.
3. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Digital Microscope
Model No.:	inskam365, inskam365A, inskam365B,inskam365C
Test Model No.:	inskam365
Remark:	All above models are identical in the same PCB layout, interior structure and electrical circuits. The difference is model name for commercial purpose.
Power Supply:	USB input: DC 5.0V Li-battery: DC 3.7V, 400mAh

Remark: The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

5.2 Test mode and Test voltage

Test mode:	
Operation mode	Keep the EUT in the operation status.
Charge mode	Keep the EUT charging.
PC mode	Keep the EUT in the operation status by PC.
Test voltage:	
USB input: DC 5V&Li-battery: DC 3.7V	

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
GTS	Accumulator	DC 5V	N/A
Lenovo	Notebook PC	E40-80	N/A

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED —Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

Tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

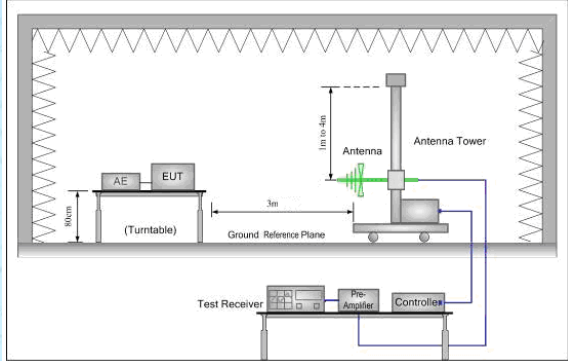
6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 11, 2025	Apr. 10, 2026
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 02, 2024	Jul. 01, 2025
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.16, 2024	Nov.15, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV-Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 13, 2024	Nov. 12, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 02, 2024	Jul. 01, 2025
17	RE cable 2	GTS	N/A	GTS676	Jul. 02, 2024	Jul. 01, 2025
18	RE cable 3	GTS	N/A	GTS677	Jul. 02, 2024	Jul. 01, 2025
19	RE cable 4	GTS	N/A	GTS678	Jul. 02, 2024	Jul. 01, 2025
20	RE cable 5	GTS	N/A	GTS679	Jul. 02, 2024	Jul. 01, 2025
21	RE cable 6	GTS	N/A	GTS680	Jul. 02, 2024	Jul. 01, 2025
22	RE cable 7	GTS	N/A	GTS681	Jul. 05, 2024	Jul. 04, 2025
23	RE cable 8	GTS	N/A	GTS682	Jul. 05, 2024	Jul. 04, 2025
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Aug. 17, 2024	Aug. 16, 2025

7 Test Results and Measurement Data

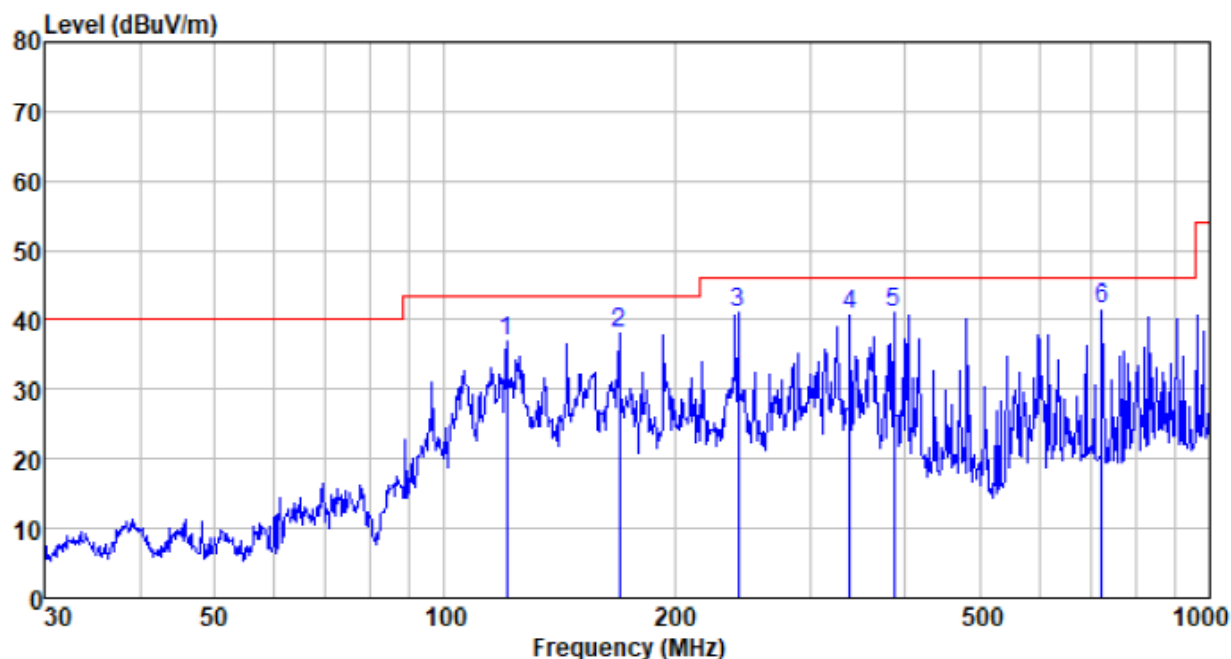
7.1 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																		
Test Method:	ANSI C63.4:2014																		
Test Frequency Range:	30MHz to 1GHz																		
Class / Severity:	Class B																		
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																		
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Value</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak</td></tr></table>				Frequency	Detector	RBW	VBW	Value	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak					
Frequency	Detector	RBW	VBW	Value															
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak															
Limit:	<table><tr><td>Frequency</td><td>Limit (dBμV/m @3m)</td><td>Value</td></tr><tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak</td></tr><tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak</td></tr><tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak</td></tr><tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak</td></tr></table>				Frequency	Limit (dBμV/m @3m)	Value	30MHz-88MHz	40.00	Quasi-peak	88MHz-216MHz	43.50	Quasi-peak	216MHz-960MHz	46.00	Quasi-peak	960MHz-1GHz	54.00	Quasi-peak
Frequency	Limit (dBμV/m @3m)	Value																	
30MHz-88MHz	40.00	Quasi-peak																	
88MHz-216MHz	43.50	Quasi-peak																	
216MHz-960MHz	46.00	Quasi-peak																	
960MHz-1GHz	54.00	Quasi-peak																	
Test setup:																			
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower																		

	than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details and only show the worst case.					
Test results:	Pass					

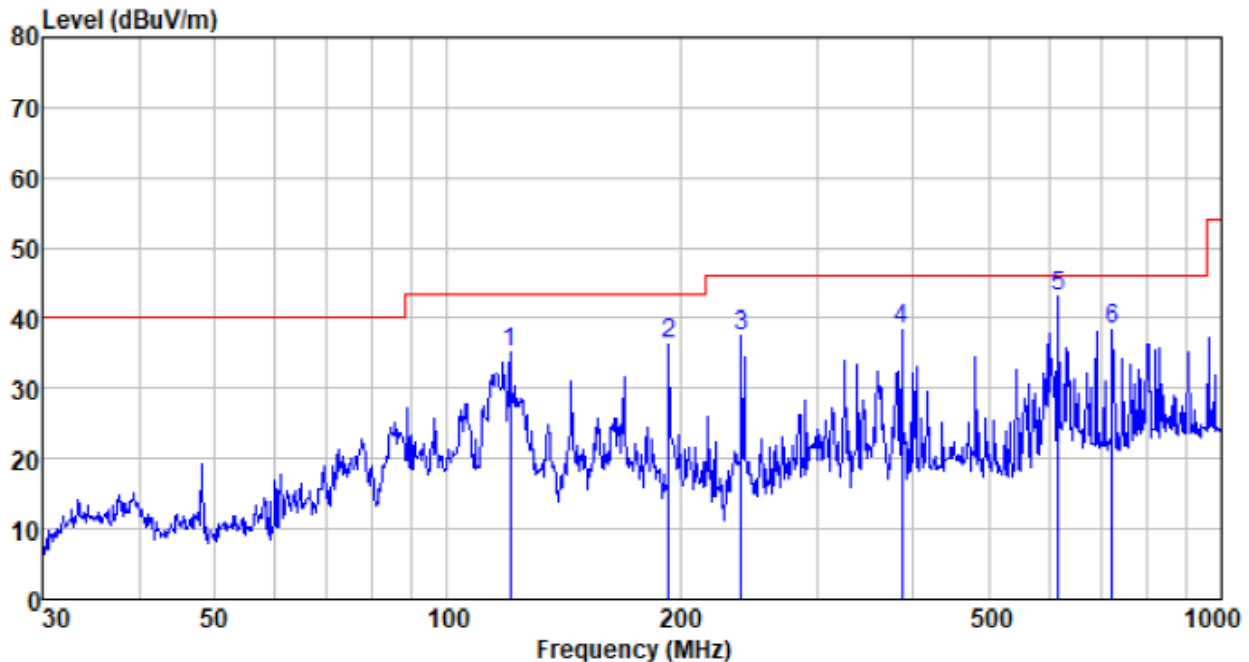
Measurement Data

Test mode:	PC mode	Antenna Polarity:	Horizontal
------------	---------	-------------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
120.699	54.41	12.74	2.18	32.48	36.85	43.50	-6.65	QP
169.005	54.44	13.50	2.63	32.43	38.14	43.50	-5.36	QP
241.676	60.08	10.10	3.12	32.36	40.94	46.00	-5.06	QP
338.400	56.36	13.13	3.61	32.28	40.82	46.00	-5.18	QP
386.634	55.11	14.43	3.83	32.26	41.11	46.00	-4.89	QP
721.726	46.98	20.83	5.17	31.39	41.59	46.00	-4.41	QP

Test mode:	PC mode	Antenna Polarity:	Vertical
------------	---------	-------------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
120.699	52.72	12.74	2.18	32.48	35.16	43.50	-8.34	QP
193.095	55.32	10.59	2.80	32.41	36.30	43.50	-7.20	QP
239.987	56.81	10.00	3.11	32.36	37.56	46.00	-8.44	QP
386.634	52.50	14.43	3.83	32.26	38.50	46.00	-7.50	QP
616.372	50.69	19.36	4.71	31.77	42.99	46.00	-3.01	QP
721.726	43.64	20.83	5.17	31.39	38.25	46.00	-7.75	QP

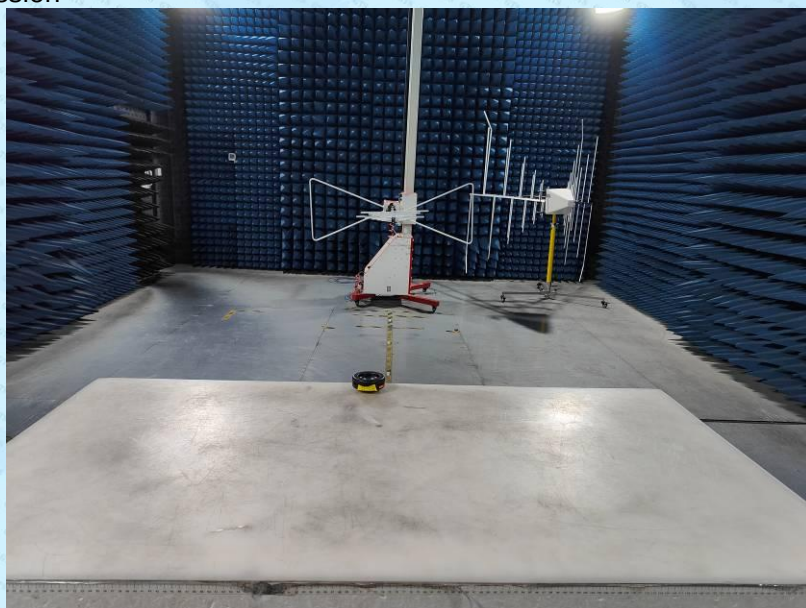
Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

8 Test Setup Photo

Radiated Emission

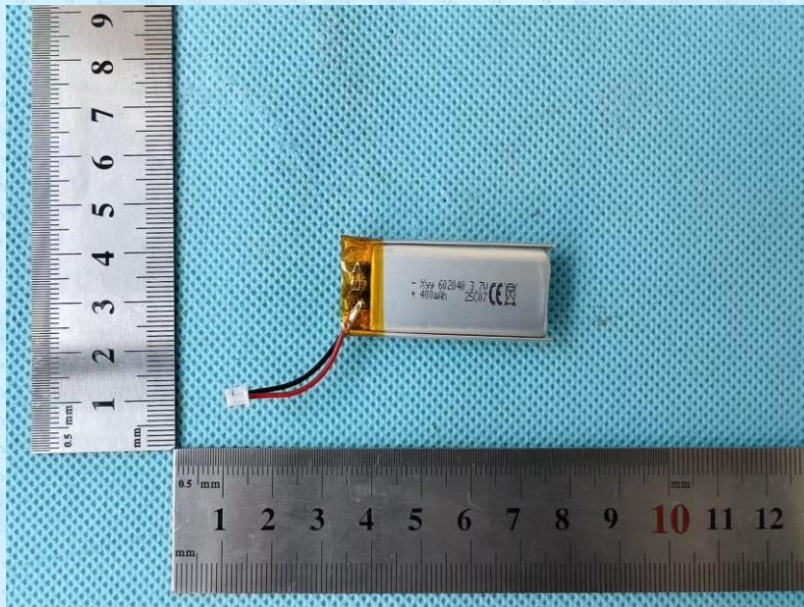
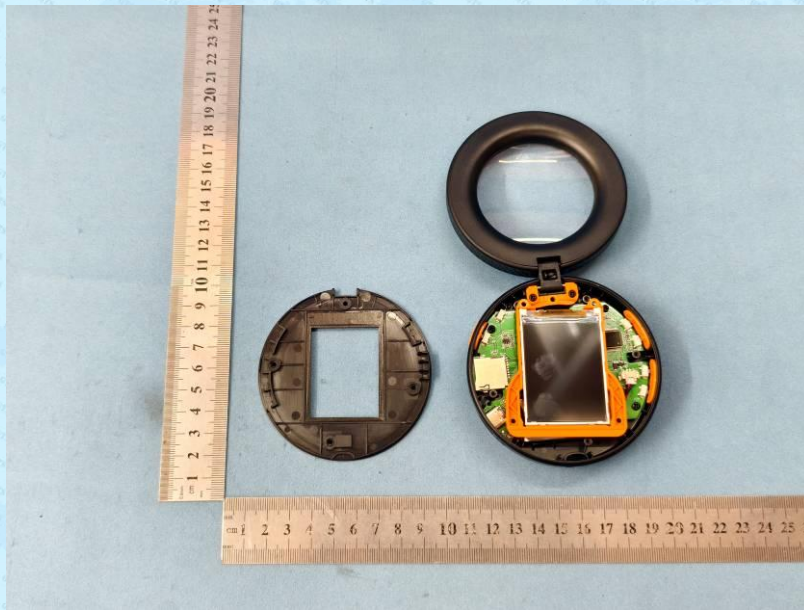


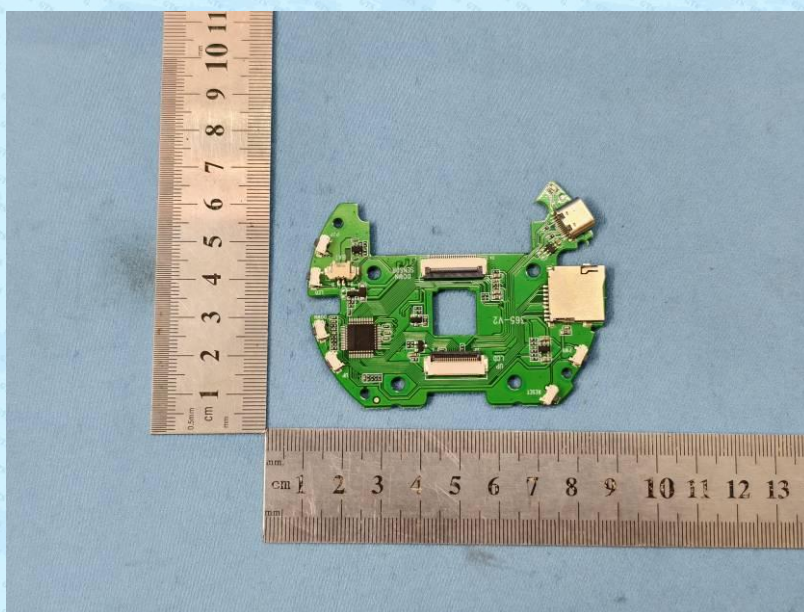
9 EUT Construcational Details













-----End-----