

# TEST REPORT

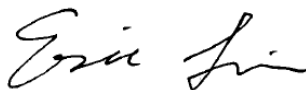
**Application No.:** KSEM2212002377AT  
**Applicant:** Shanghai Xiyin Technology Co.,Ltd  
**Address of Applicant:** Building C, No.888,Huanhu West Second Road,Lingang New Zone, China(Shanghai) Pilot Free Trade Zone  
**Manufacturer:** Shanghai Xiyin Technology Co.,Ltd  
**Address of Manufacturer:** Building C, No.888,Huanhu West Second Road,Lingang New Zone, China(Shanghai) Pilot Free Trade Zone  
**Factory:** Shanghai Xiyin Technology Co.,Ltd  
**Address of Factory:** Building C, No.888,Huanhu West Second Road,Lingang New Zone, China(Shanghai) Pilot Free Trade Zone

**Equipment Under Test (EUT):**

**EUT Name:** CS30  
**Model No.:** CS30  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2022-12-07  
**Date of Test:** 2022-12-08 to 2022-12-08  
**Date of Issue:** 2022-12-16

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin  
Laboratory Manager



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM221200237701

Page: 2 of 18

Revision Record			
Version	Description	Date	Remark
00	Original	2022-12-16	/

Authorized for issue by:			
		<i>Kun Gu</i>	
		_____	
		<b>Kun_gu/Project Engineer</b>	
		<i>Eric Lin</i>	
		_____	
		<b>Eric Lin /Reviewer</b>	



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## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.109(a);Class B	Pass



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### 3 Contents

	Page
1 COVER PAGE .....	1
2 TEST SUMMARY .....	3
3 CONTENTS .....	4
4 GENERAL INFORMATION .....	5
4.1 DETAILS OF E.U.T. ....	5
4.2 DESCRIPTION OF SUPPORT UNITS .....	5
4.3 MEASUREMENT UNCERTAINTY .....	5
4.4 TEST LOCATION .....	6
4.5 TEST FACILITY .....	6
4.6 DEVIATION FROM STANDARDS .....	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	6
5 EQUIPMENT LIST .....	7
6 EMISSION TEST RESULTS .....	8
6.1 RADIATED EMISSIONS (30MHZ-1GHZ) .....	8
6.1.1 E.U.T. Operation .....	8
6.1.2 Test Mode Description .....	8
6.1.3 Test Setup Diagram .....	9
6.1.4 Measurement Procedure and Data .....	9
7 TEST SETUP PHOTO .....	12
8 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) .....	13



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 5V ;0.6A;3W;100MHZ
	Test voltage:DC 5V(Power by PC)

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	XIAOMI	Pro15	00342-35744-35614-AAOEM

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty ( $U_{LAB}$ ) *	$U_{CISPR}$
1	Conducted Emission at mains port using AMN	2.4dB (9kHz to 150kHz)	3.8dB (9kHz to 150kHz)
		2.2dB (150kHz to 30MHz)	3.4dB (150kHz to 30MHz)
2	Conducted Emission at telecommunication port using AAN	4.0 dB (150kHz to 30MHz)	5.0dB (150kHz to 30MHz)
3	Radiated Power	3.2dB	4.5dB (30MHz to 300MHz)
4	Radiated Emission (10m)	4.1 dB	6.3dB (30MHz-1GHz)
5	Radiated Emission (3m)	4.6 dB (30MHz-1GHz)	6.3dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)	5.2dB (1GHz-6GHz)
		5.2dB (6GHz-18GHz)	5.5dB (6GHz-18GHz)
		5.3dB (18GHz-40GHz)	N/A

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### Decision Rule:

- CISPR 16-4-2 for emission measurements is as below described.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

$U_{LAB}$  less than  $U_{CISPR}$ , therefore:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit.
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- For immunity testing no decision rule is applicable.



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM221200237701

Page: 6 of 18

### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

### 4.5 Test Facility

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

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver	R&S	ESCI	KS301044	01/22/2022	01/21/2023
EMI Test Receiver	R&S	ESCI	KS301195	08/22/2022	08/21/2023
Bilog Antenna	Sunol	JB1	CZ301033	02/28/2022	02/27/2023
Bilog Antenna	Sunol	JB1	KS301013	04/12/2022	04/11/2023
Pre-Amplifier	Anritsu	MH648A	KS610098	01/22/2022	01/21/2023
Pre-Amplifier	Mini-circuits	ZFL-1000VH2	CZ301013	01/22/2022	01/21/2023
Software	Faratronic	EZ_EMG-v 3A1	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital Pressure Meter	Mengde	DYM3	CZ750023	02/01/2022	01/31/2023
Temperature & Humidity Recorder	Anymetre	TH603	CZ720001-1 CZ720001-2 CZ720001-3 CZ720001-4 CZ720001-5 CZ720001-6 CZ720001-7	10/13/2022	10/12/2023



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## 6 Emission Test Results

### 6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 10m

Limit:

Class B

Test Distance: 3m

30MHz -88MHz 40.0(dBμV/m) quasi-peak

88MHz-216MHz 43.5(dBμV/m) quasi-peak

216MHz-960MHz 46.0(dBμV/m) quasi-peak

960MHz-1000MHz 54.0(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

Class B

Test Distance: 10m

30MHz -88MHz 29.5(dBμV/m) quasi-peak

88MHz-216MHz 33.1(dBμV/m) quasi-peak

216MHz-960MHz 35.6(dBμV/m) quasi-peak

960MHz-1000MHz 43.5(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 43.0 % RH

Atmospheric Pressure: 1010 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normally Operating.



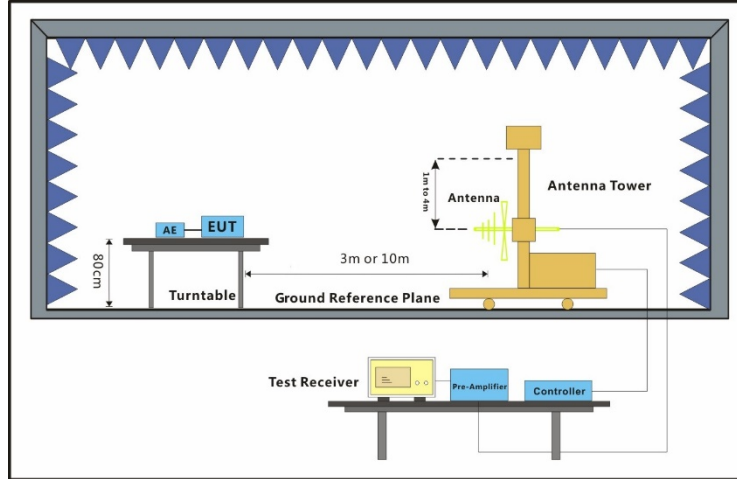
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### 6.1.3 Test Setup Diagram



### 6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

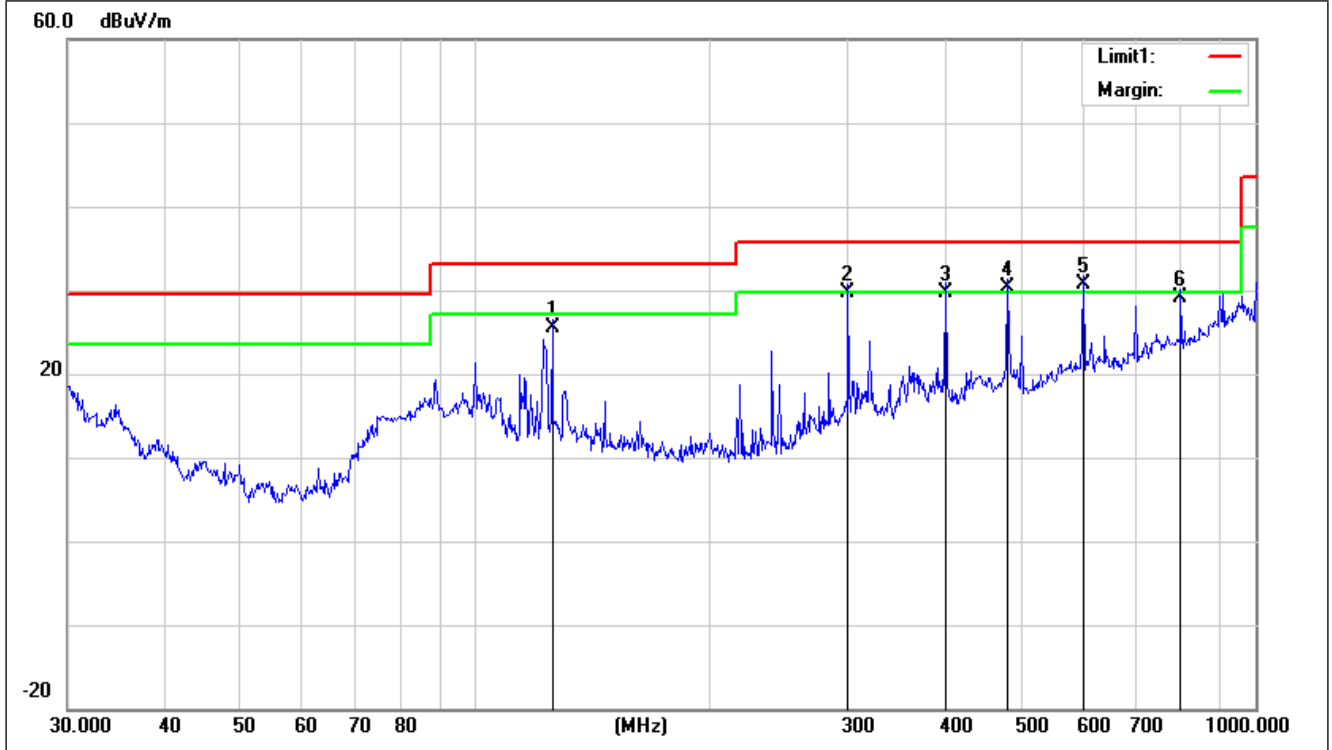


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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg)	Remark
1	125.4457	40.10	-14.62	25.48	33.10	-7.62	300	339	QP
2	300.3673	43.72	-14.02	29.70	35.60	-5.90	100	35	QP
3	400.4318	41.73	-11.93	29.80	35.60	-5.80	100	118	QP
4	480.5276	39.80	-9.46	30.34	35.60	-5.26	200	294	QP
5	601.4265	38.39	-7.78	30.61	35.60	-4.99	400	37	QP
6	801.7862	33.47	-4.46	29.01	35.60	-6.59	100	206	QP



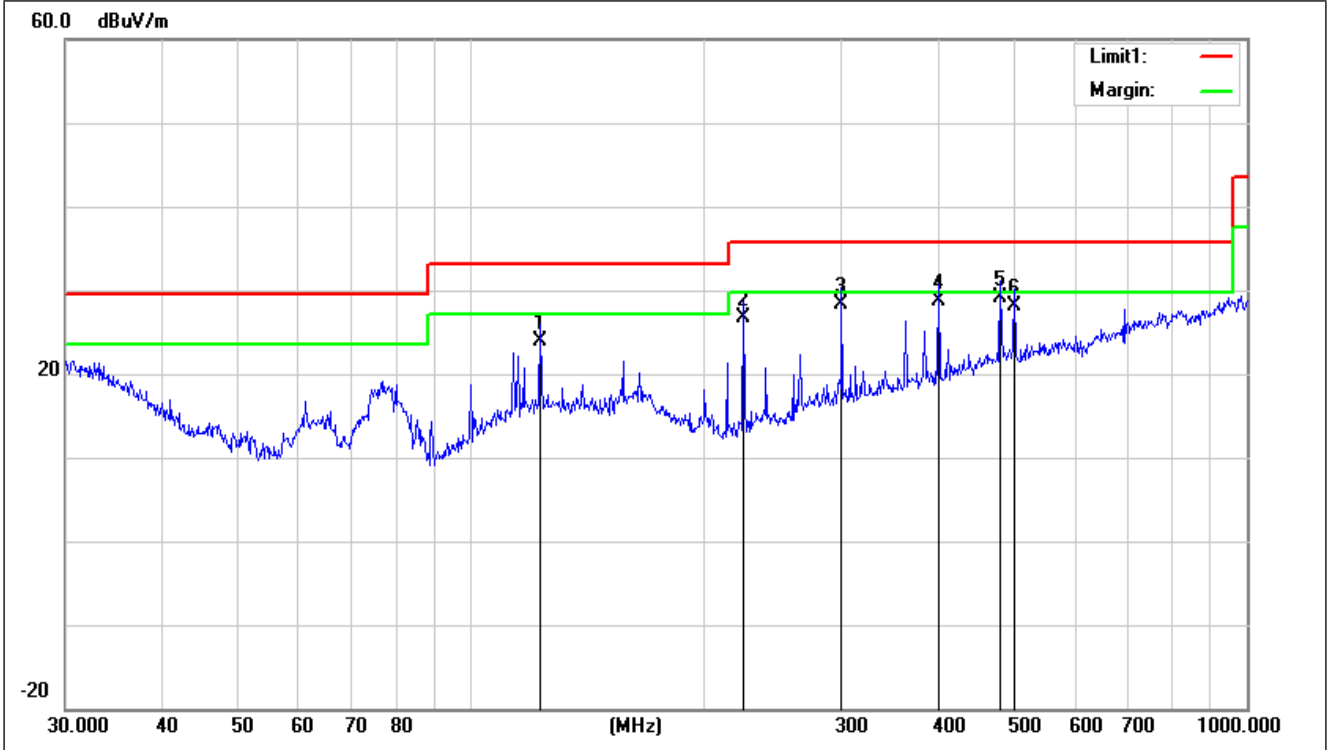
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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg)	Remark
1	122.8340	32.08	-8.10	23.98	33.10	-9.12	400	108	QP
2	224.5192	37.34	-10.70	26.64	35.60	-8.96	200	274	QP
3	300.3673	35.52	-7.18	28.34	35.60	-7.26	100	325	QP
4	400.4318	33.69	-4.98	28.71	35.60	-6.89	300	119	QP
5	480.5276	31.52	-2.46	29.06	35.60	-6.54	200	91	QP
6	501.1790	30.46	-2.45	28.01	35.60	-7.59	100	187	QP



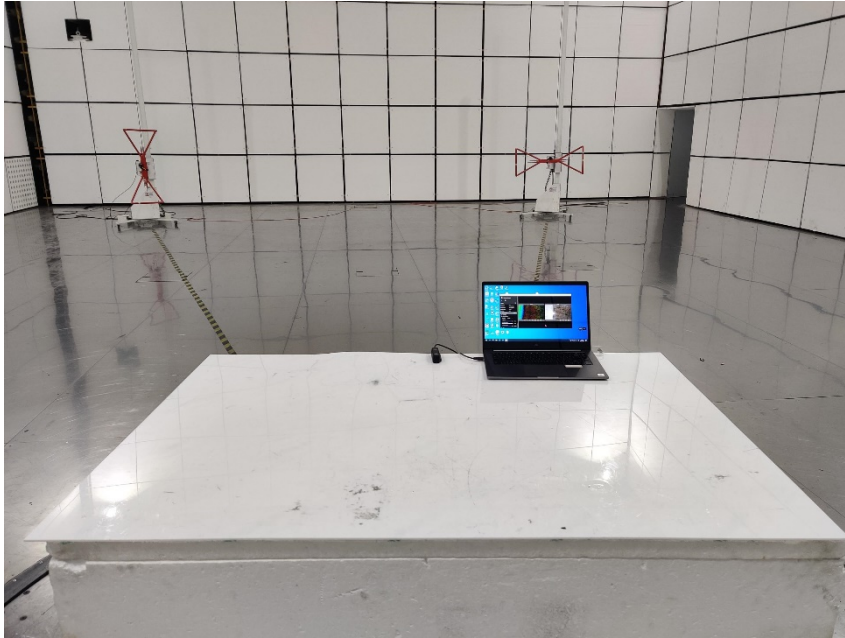
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### 7 Test Setup Photo

#### Radiated Emissions (30MHz-1GHz)



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## 8 EUT Construnctional Details (EUT Photos)



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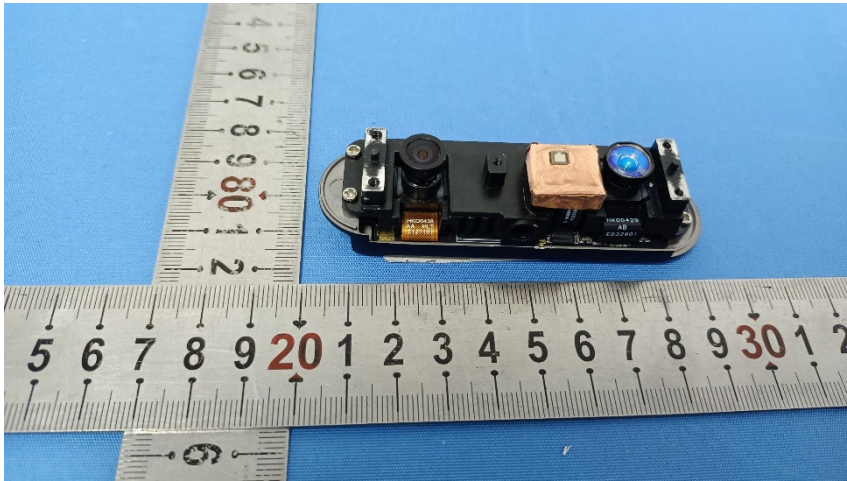
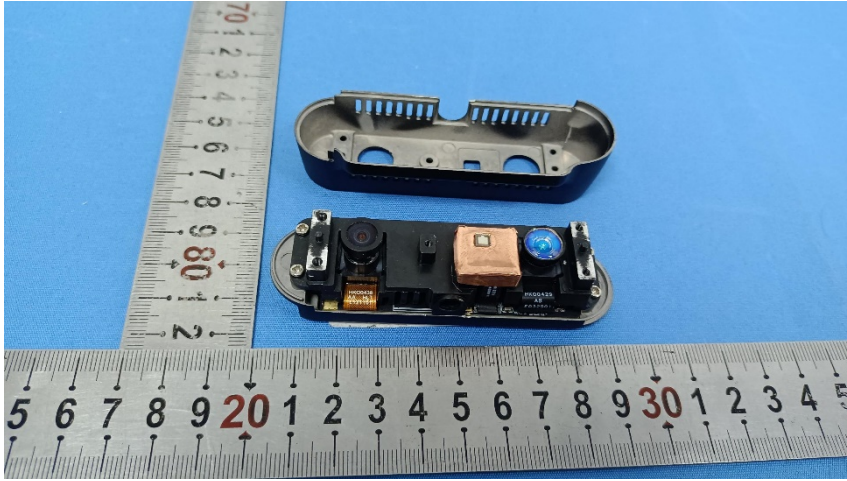


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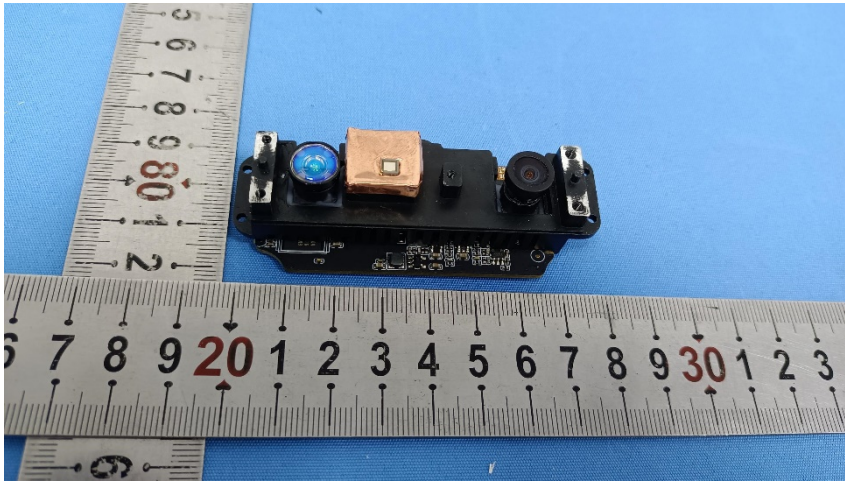
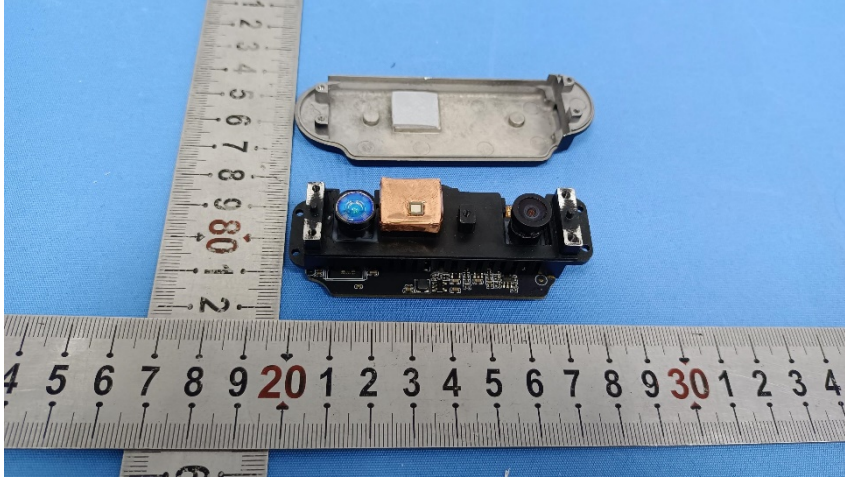
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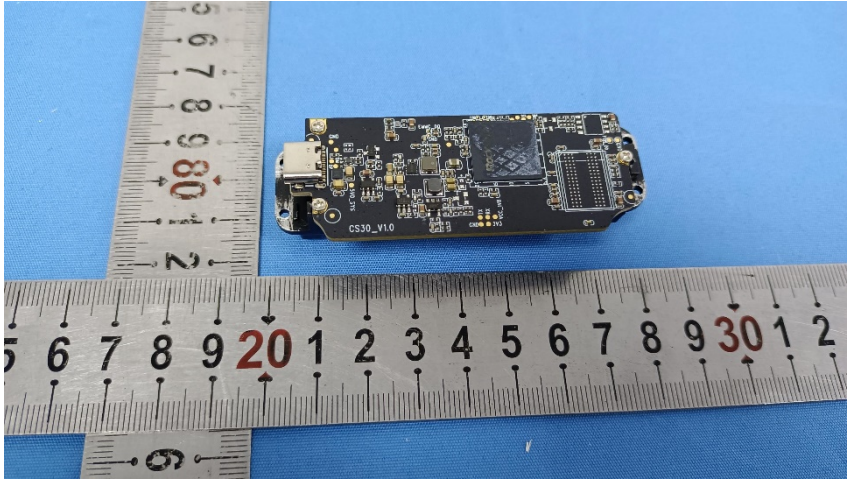


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