



RF Exposure Evaluation Report

Applicant: Realsee(Beijing) Technology Co., Ltd.

Address of Applicant: Room 7-261, 7th Floor, Building 1, No. 158, Xisihuan North Road, Haidian District, Beijing City, P. R. China

Equipment Under Test (EUT)

Product Name: 3D SMART CAMERA

Model No.: RS42050, RS42025

Trade mark: REALSEE

FCC ID: 2A67J-RS42050

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 13 Sep., 2022

Date of Test: 14 Sep., to 16 Oct., 2022

Date of report issue: 28 Mar., 2023

Test Result: PASS

Tested by:

Mike.Ou

Date:

28 Mar., 2023

Reviewed by:

Wenwen Zhang
Project Engineer
检验检测专用章

Date:

28 Mar., 2023

Approved by:

Manager

Date:

28 Mar., 2023

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	28 Mar., 2023	Original

Remark: This report is revised according to FCC ID: 2A26V-RS41010, report No.: JYTSZ-R12-2201767 issued by JianYan Testing Group Shenzhen Co., Ltd, follow the Change ID allow change principle. Differences: Update addresses of applicant and applicant, and update addresses of manufacturer and manufacturer, update product name and model and FCC ID, so no need to retest.

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3 General Information

3.1 Client Information

Applicant:	Realsee(Beijing) Technology Co., Ltd.
Address:	Room 7-261, 7th Floor, Building 1, No. 158, Xisihuan North Road, Haidian District, Beijing City, P. R. China
Manufacturer:	Realsee(Beijing) Technology Co., Ltd.
Address:	Room 7-261, 7th Floor, Building 1, No. 158, Xisihuan North Road, Haidian District, Beijing City, P. R. China
Factory:	Hong Fu Tai Precision Electrons (Yantai) Co., Ltd.
Address:	No. 8 Jiaxing Road, Yantai Economic & Technological Development Area, Shandong, P.R. China

3.2 General Description of E.U.T.

Product Name:	3D SMART CAMERA	
Model No.:	RS42050, RS42025	
Operation Frequency:	2.4G Wi-Fi: 2412MHz~2462MHz 5.2G Wi-Fi Band 1: 5180MHz~5240MHz 5.8G Wi-Fi Band 4: 5725MHz~5875MHz	
Modulation technology:	802.11b: DSSS, 802.11a/g/n/ac: OFDM	
Antenna Type:	FPC Antenna	
Antenna gain:	2.4GWi-Fi	ANT1: 0.91 dBi , ANT2: 1.37 dBi , Direction gain for MIMO mode: 4.15dBi.
	5.2GWi-Fi	ANT1: 2.79 dBi , ANT2: 2.51 dBi , Direction gain for MIMO mode: 5.66dBi.
	5.8GWi-Fi	ANT1: 4.21 dBi , ANT2: 1.61 dBi , Direction gain for MIMO mode: 6.02dBi.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

3.3 Operating Modes

Operating mode	Detail description
2.4G WIFI mode	Keep the EUT in continuously transmitting in 2.4G WIFI mode
5.2G WIFI mode	Keep the EUT in continuously transmitting in 5.2G WIFI mode
5.8G WIFI mode	Keep the EUT in continuously transmitting in 5.8G WIFI mode

3.4 Additions to, deviations, or exclusions from the method

No

3.5 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.3 Result

Please refer to FCC ID: 2A26V-RS41010, report No.: JYTSZ-R12-2201767.

4.4 Conclusion

Please refer to FCC ID: 2A26V-RS41010, report No.: JYTSZ-R12-2201767.

-----End of report-----