# RF Exposure Evaluation Report

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|---|---|
| **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<br>***Test Engineer*** | ***Date:*** | *28 Mar., 2023* |
| ***Reviewed by:*** | Winner Zhang<br>***Project Engineer*** | ***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.

# 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.* | | |

# 2 Contents

# 3 General Information

## 3.1 Client Information

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|---|---|
| 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<br>5.2G Wi-Fi Band 1: 5180MHz~5240MHz<br>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 ,<br>ANT2: 1.37 dBi ,<br>Direction gain for MIMO mode: 4.15dBi. |
| | 5.2GWi-Fi | ANT1: 2.79 dBi ,<br>ANT2: 2.51 dBi ,<br>Direction gain for MIMO mode: 5.66dBi. |
| | 5.8GWi-Fi | ANT1: 4.21 dBi ,<br>ANT2: 1.61 dBi ,<br>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

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| 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------