



RF Exposure Evaluation Report

Applicant: Beike Technology Co., Ltd.

Address of Applicant: Room 708, Building A3, No.12, Nanhai Road, TEDA Tianjin, China

Equipment Under Test (EUT)

Product Name: Galois 3D Smart Camera

Model No.: RS41010, RS41025

Trade mark: REALSEE

FCC ID: 2A26V-RS41010

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091),
KDB 447498 D01General RF Exposure Guidance v06

Date of sample receipt: 13 Sep., 2022

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

Date of report issue: 07 Nov., 2022

Test Result: PASS

Tested by:

Mike Ou

Test Engineer

Date:

07 Nov., 2022

Reviewed by:

Wen Zhang

Project Engineer

Date:

07 Nov., 2022

Approved by:

Wen Zhang

Manager

Date:

07 Nov., 2022

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	17 Oct., 2022	Original
01	07 Nov., 2022	1. Updated page 1/4.

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3 General Information

3.1 Client Information

Applicant:	Beike Technology Co., Ltd.
Address:	Room 708, Building A3, No.12, Nanhai Road, TEDA Tianjin, China
Manufacturer:	Beike Technology Co., Ltd.
Address:	Room 708, Building A3, No.12, Nanhai Road, TEDA Tianjin, 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:	Galois 3D Smart Camera	
Model No.:	RS41010, RS41025	
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

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

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

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)
2.4G Wi-Fi							
2437	16.698	46.752	0.91	1.23	20.00	0.0115	1.0
2437	16.698	46.752	1.37	1.37	20.00	0.0128	1.0
5.2G Wi-Fi							
5180	14.602	28.854	2.79	1.90	20.00	0.0109	1.0
5180	14.602	28.854	2.51	1.78	20.00	0.0102	1.0
5.8G Wi-Fi							
5755	14.013	25.194	4.21	2.64	20.00	0.0132	1.0
5755	14.013	25.194	1.61	1.45	20.00	0.0073	1.0

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

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