

TEST REPORT

Report No.: SHE20080007-02FE

Date: 2020-08-28

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Applicant : Shanghai Xiaoyi Technology Co., Ltd.
Address of Applicant : Building 18, Lane 55, Chuanke Road, China (Shanghai) Pilot Free Trade Zone

Product Name : Kami Doorbell Camera
Model No. : YDS.20120
Sample No. : E20080007-01#01
E20080007-01#02
FCC ID : 2AFIB-YDS20120

Standards : FCC CFR47 Part 2&1.1307(b)(1)

Date of Receipt : 2020-08-12
Date of Test : 2020-08-16 ~ 2020-08-26
Date of Issue : 2020-08-28

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by: Jennifer Zhou (Jennifer Zhou) Reviewed by: Oliver Xiang (Oliver Xiang) Approved by: Guoyou Chi (Authorized signatory: Guoyou Chi)

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Revision Record

Version	Date	Revisions	Revised By
1.0	2020-1-20	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	155 Pingbei Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shanghai Xiaoyi Technology Co., Ltd.
Address	Building 18, Lane 55, Chuanke Road, China (Shanghai) Pilot Free Trade Zone

1.3 Details of EUT

Product Name	Kami Doorbell Camera
Brand Name	Kami
Model No.	YDS.20120
FCC ID	2AFIB-YDS20120
Mode of Operation	WLAN 802.11b/g/n(HT20/40) WLAN 802.11a/n(HT20) Bluetooth BLE
Frequency Range	2400MHz ~ 2483.5MHz Band I: 5150 MHz ~ 5250 MHz Band IV: 5725 MHz ~ 5850 MHz
Channel Separation	5 MHz
Modulation Type	DSSS, OFDM, 256QAM, 64QAM, 16QAM, BPSK, QPSK ,GFSK
Antenna Type	FPC Antenna
Antenna Gain	See below

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1.4 Test Methodology

47 CFR Part 15, Subpart C (10-1-16 Edition)	Miscellaneous Wireless Communications Services
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Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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1.5 Test Verdict

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time $ E ^2, H ^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6

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1500-100,000	/	/	5	6
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(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100,000	/	/	1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

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MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$Pd = \frac{30 \times P \times G}{377 \times d^2}$ From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
WIFI 2.4G	1.88	20.87	188.36	0.0374	1	Pass
WIFI 5.2G	4.18	13.45	57.94	0.0115	1	Pass
WIFI 5.8G	4.18	11.40	36.14	0.0072	1	Pass
BLE	0.90	0.04	1.24	0.0002	1	Pass

End of the report