

FCC RF EXPOSURE REPORT

| Applicant | | BELLING MADY TECHNOLOGY CO. LTD | | |
|-------------------------|-----|----------------------------------------------------------------------------------------------------|--|--|
| Applicant | : | BEIJING MADV TECHNOLOGY CO., LTD. | | |
| Address of Applicant | : | No.80, Floor 4, Building 17, Yard 30, ShiXingDaJie, Shijingshan District, Beijing, China | | |
| Manufacturer | • | BEIJING MADV TECHNOLOGY CO., LTD. | | |
| Address of Manufacturer | : | No.80, Floor 4, Building 17, Yard 30, ShiXingDaJie, Shijingshan District, Beijing, China | | |
| Equipment under Test | : | Birddy Smart Bird House Camera | | |
| Model No. | - 6 | FJ27HWXJ | | |
| Trade Mark | : | ® RELI | | |
| FCC ID | : | 2AJ2LFJ27HWXJ | | |
| Test Standard(s) | : | KDB447498 D01 General RF Exposure Guidance v06 | | |
| Report No. | : | DDT-RE23101326-2E01 | | |
| Issue Date | : | 2023/10/23 | | |
| Issue By | : | Guangdong Dongdian Testing Service Co., Ltd. | | |
| Address of Laboratory | : | Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808 | | |



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Test Report Declare

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Gongdong Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Gongdong Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

| Report No.: | DDT-RE23101326-2E02 | 2 | 10r |
|------------------|---------------------|---------------|-------------------------------|
| Date of Receipt: | Oct. 17, 2023 | Date of Test: | Oct. 17, 2023 ~ Oct. 23, 2023 |

Prepared By:

Approved By:

Tiger Mo /Engineer

* 15 * 11

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Gongdong Dongdian Testing Service Co., Ltd.

Revision History

| Rev. | Revisions | Issue Date Revised By |
|------|---------------|-----------------------|
| | Initial issue | Oct. 23, 2023 |
| | | |

1. General Information

1.1. Description of equipment

| EUT Name | : Birddy Smart Bird House Camera |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number | : FJ27HWXJ |
| EUT function description | : Please reference user manual of this device |
| Power Supply | DC 5V from External adapter or DC 4.2V built-in battery |
| Radio Technology | : IEEE 802.11b/g/n |
| Operation frequency | IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz |
| Modulation | IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) : IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Transmitter rate | IEEE 802.11b: up to 11 Mbps IEEE 802.11g: up to 54 Mbps IEEE 802.11n HT20: up to 72.2 Mbps IEEE 802.11n HT40: up to 150 Mbps |
| Antenna Type | : Glue stick antenna, Maximum PK gain: 4.16 dBi |
| Sample Number | . S23101326-04 for conductive S23101326-05 for radiation |

Note: EUT is the abbreviation of equipment under test.

1.2. Assess laboratory

Gongdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | ange Electric Field Strength (E) (V/m) Magnetic Field Strength (H) Power Density (S) (M/m) (mW/cm²) | | Averaging Time E ² , H ² or S (minutes) | |
|--------------------------|-----------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------|----|
| 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

2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

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

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

| Mode | Output power (dBm) | Output power (mW) | tune up power (dBm) | Antenna Gain (dBi) | Antenna Gain (linear) | MPE Values (mW/cm²) | MPE Limit (mW/cm²) |
|-----------|--------------------------|-------------------------|------------------------------|--------------------------|-----------------------------|---------------------------|--------------------------|
| 2.4G WIFI | 16.85 | 48.42 | 17 | 4.16 | 2.61 | 0.0251 | 1 |

Note: The estimation distance is 20 cm

Conclusion: MPE evaluation required since transmitter power is below FCC threshold

END OF REPORT