

RF Exposure evaluation report

Applicant:	Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
Address of Applicant:	No.2 Plant ,West of Shanxi country , Dashi street, Panyu District, Guangzhou City, China
Manufacturer:	Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
Address of Manufacturer:	No.2 Plant ,West of Shanxi country , Dashi street, Panyu District, Guangzhou City, China
Product name:	Fisheye Camera
Model:	WCM-2FEIN-JUN
Rating(s):	Input: DC5V, 1A (For main) Input: 100-240Vac, 50/60Hz, 0.25A (For AC/AD ADAPTER) Output: 5Vdc, 1A ((For AC/AD ADAPTER))
Trademark:	NIGHT OWL
Standards:	47 CFR Part 1.1310 (2013) 47 CFR Part 2.1091 (2013) KDB447498D01 General RF Exposure Guidance v06
FCC ID:	2APRB-WCM-2FEIN-JUN
Date of Receipt:	2019-07-12
Date of Test:	2019-07-12~2019-07-17
Date of Issue:	2019-07-18
Test Result	Pass*

* In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:

Jul.18, 2019 Eleven Liang
Project Engineer

Date Name/Position Signature

Reviewed by:

Jul.18, 2019 Pauler Li
Project Manager

Date Name/Position Signature

Possible test case verdicts:

test case does not apply to the test object ...: N/A

test object does meet the requirement: P (Pass)

test object does not meet the requirement ...: F (Fail)

Testing Laboratory information:

Testing Laboratory Name: ITL Co., Ltd

Address.....: No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan,
Guangdong, 523757 P.R.C.

Testing location : Same as above

Tel : 0086-769-39001678

Fax : 0086-20-62824387

E-mail : itl@i-testlab.com

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

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2 General Information

2.1 Client Information

Applicant: Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
Address of Applicant: No.2 Plant ,West of Shanxi country , Dashi street, Panyu District, Guangzhou City, China

2.2 General Description of E.U.T.

Name: Fisheye Camera
Model No.: WCM-2FEIN-JUN
Trade Mark: NIGHT OWL
Operating Frequency: 802.11 b/g/n(HT20): 2412MHz-2462MHz
Channels: 802.11b, 802.11g, 802.11n(20MHz): 11
802.11n(40MHz): 7
Type of Modulation: CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Antenna Reference: FPC antenna with 3dBi peak Gain
Function: Fisheye Camera

2.3 Details of E.U.T.

EUT Power Supply: 120Vac, 60Hz

Test mode for WIFI: The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	2412MHz, 2437MHz, 2462MHz,
TM2	802.11g	2412MHz, 2437MHz, 2462MHz,
TM3	802.11n(HT20)	2412MHz, 2437MHz, 2462MHz,
TM4	802.11n(40MHz)	2422MHz, 2437MHz, 2452MHz,

2.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.

2.5 Test Location

All tests were performed at:

ITL Co., Ltd

No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C.

0086-769-39001678

itl@i-testlab.com

No tests were sub-contracted.

2.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

2.7 Abnormalities from Standard Conditions

None.

2.8 Other Information Requested by the Customer

None.

2.9 Test Facility

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

- **CNAS Lab code:L9342**
- **FCC Designation No.:CN5035**
- **IC Registration NO.: 12593A**
- **NVLAP LAB CODE: 600199-0**

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 and FCC 1.1310
Radiofrequency radiation exposure limits for General Population/Uncontrolled Exposure

3.1.2 EUT RF Exposure

The Max Output Power is 9.41dBm in 802.11g highest channel (2.462GHz);

Antenna gain: 3dBi

R=20cm

$$S = \frac{PG}{4\pi R^2} = 0.005 < 1 (\text{limits})$$