

Report No.: SHCR220100006202

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1 Cover Page

RF MPE REPORT

Application No.: SHCR2201000062AT **FCC ID:** 2AVYF-IPC-TAX2C-G

Applicant: Hangzhou Huacheng Network Technology Co.,Ltd.

Address of Applicant: No.2930, Nanhuan Road, Binjiang District, Hangzhou, China

Manufacturer: Hangzhou Huacheng Network Technology Co.,Ltd.

Address of Manufacturer: No.2930, Nanhuan Road, Binjiang District, Hangzhou, China

Equipment Under Test (EUT):

EUT Name: CONSUMER CAMERA

Model No.: IPC-TA22CP-G-imou,IPC-TA22CP-G,

IPC-TA22CN-G-imou,IPC-TA22CN-G,

IPC-TA22C-G-LC,LC-A2X-G

Standard(s): FCC Rules 47 CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

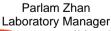
Date of Receipt: 2021-12-05

Date of Test: 2021-12-05 to 2022-01-14

Date of Issue: 2022-01-15

Test Result: Pass*

varlan 2han



检验检测专用章

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Description	Date	Remark	
00	Original	2022-01-15	/	

Authorized for issue by:			
	Michael Nil		
	Micheal Niu / Project Engineer	_	
	Parlam Zhan		
	Parlam Zhan / Reviewer	_	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 5V by adapter	

3.2 Technical Specifications

2.4GHz

Antenna Gain:	2.84dBi (Provided by manufacturer)
Antenna Type:	Plug-in shrapnel Antenna
Channel Spacing:	5MHz
Data Rate:	802.11b: 1/2/5.5/11Mbps,
	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n: MCS 0 to 7
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
	802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	802.11n(HT40): 2422MHz to 2452MHz



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

3.4 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E
• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm²)	Averaging time(minutes)	
300MHz~1.5GHz	f/1500	30	
1.5GHz~100GHz	1.0	30	



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR220100006201.

2.4GHz

Test Mode	Test Channel	Ant	Power [dBm]	Power [mW]
11B	2412	Ant1	13.22	20.99
11B	2437	Ant1	13.51	22.44
11B	2462	Ant1	13.77	23.82
11G	2412	Ant1	11.57	14.35
11G	2437	Ant1	11.85	15.31
11G	2462	Ant1	12.06	16.07
11N20SISO	2412	Ant1	11.42	13.87
11N20SISO	2437	Ant1	11.70	14.79
11N20SISO	2462	Ant1	11.93	15.60
11N40SISO	2422	Ant1	11.63	14.55
11N40SISO	2437	Ant1	11.81	15.17
11N40SISO	2452	Ant1	11.40	13.80



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5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) MPE limit = 1mW/cm²

For FCC:

For 2.4G WiFi

The max. antenna gain is		2.84	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm²)	Result
23.82	1.923	20	0.00911	1	Pass

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test

-- End of the Report--



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