

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

Parlam Zhan

Parlam Zhan
Laboratory Manager



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

Authorized for issue by:			
			
		<hr/> Micheal Niu / Project Engineer	
			
		<hr/> Parlam Zhan / Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 5V by adapter
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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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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/cm ²)	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/cm ²)	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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