

1 Cover Page

RF Exposure Evaluation Report

Application No.: SHEM1902011168CR
FCC ID: SVNDH-IPC-GX6E
Applicant: ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
Address of Applicant: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
Address of Manufacturer: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Factory: 1, ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
 2, ZHEJIANG DAHUA ZHILIAN CO.,LTD.
Address of Factory: 1, No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
 2, No.28, Dongqiao Road, Dongzhou Street, Fuyang District, Hangzhou, P.R. China.

Equipment Under Test (EUT):

EUT Name: CONSUMER CAMERA
Model No.: IPC-G26EP
Add Model No.: TF3, IPC-G26EN, IPC-G26EP-imou, IPC-G26EN-imou
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2019-02-27
Date of Test: 2019-02-28 to 2019-03-05
Date of Issue: 2019-03-25

Test Result:	Pass*
---------------------	--------------

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

Parlam Zhan

Parlam Zhan
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

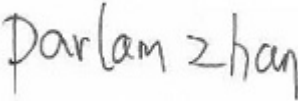
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (E&E)

NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21)61915666 f(86-21)61915678 www.sgs.com.cn
t(86-21)61915666 f(86-21)61915678 e.sgs.china@sgs.com



Revision Record			
Version	Description	Date	Remark
00	Original	2019-03-25	/

Authorized for issue by:			
			
		<hr/>	
		Vincent Zhu /Project Engineer	
			
		<hr/>	
		Parlam Zhan /Reviewer	



2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 GENERAL DESCRIPTION OF E.U.T.	4
3.2 TEST LOCATION	5
3.3 TEST FACILITY.....	5
4 TEST STANDARDS AND LIMITS	6
4.1 FCC RADIOFREQUENCY RADIATION EXPOSURE LIMITS:	6
5 MEASUREMENT AND CALCULATION	6
5.1 MAXIMUM TRANSMIT POWER	6
5.2 MPE CALCULATION	7



3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 12V 1A by adapter Adapter: Model: ADS-12AM-12 12012EPCU Input:100-240V~50/60Hz Max 0.3A Output:12V 1A
Test voltage:	AC 120V 60Hz
Antenna Gain	Antenna1: 2.4dBi Antenna2: 2.4dBi
Antenna Type	Whip antenna
Channel Spacing	5MHz
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

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

3.3 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 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.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB identifier: CN0020.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

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

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM190201116802

Test Mode	Channel	Antenna 0 Power[dBm]	Antenna 1 Power[dBm]	MIMO Power[dBm]	Antenna 0 Power[mW]	Antenna 1 Power[mW]	MIMO Power[mW]
11B	2412	15.07	14.28	NA	32.14	26.79	N/A
11B	2437	15.30	14.54	NA	33.88	28.44	N/A
11B	2462	15.17	14.36	NA	32.89	27.29	N/A
11G	2412	14.14	13.34	NA	25.94	21.58	N/A
11G	2437	14.55	13.65	NA	28.51	23.17	N/A
11G	2462	14.41	13.54	NA	27.61	22.59	N/A
11N20	2412	14.18	13.08	16.68	26.18	20.32	46.56
11N20	2437	14.58	13.05	16.89	28.71	20.18	48.87
11N20	2462	14.43	12.85	16.72	27.73	19.28	46.99
11N40	2422	12.23	11.44	14.86	16.71	13.93	30.62
11N40	2437	12.43	12.54	15.50	17.50	17.95	35.48
11N40	2452	12.43	12.52	15.49	17.50	17.86	35.40

5.2 MPE Calculation

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

Note:

- 1) P_d = Power density in mW/cm^2
- 2) P_{out} = Output power to antenna in mW
- 3) G = gain of antenna in linear scale
- 4) R = min. separation distance between the antenna and the user.

The max. antenna gain is 5.4 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
48.87	3.467	20	0.03371	1	Pass

So the device is exclusion from SAR test.

--End of the Report--