1 Cover Page

RF Exposure Evaluation Report

Application No.:	SHEM1903011304CR
FCC ID:	SVNDH-IPC-LX6
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-L26P
Add Model No.:	IPC-L26N, IPC-L26N-imou, IPC-L26P-imou, IPC-L26
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2019-03-05
Date of Test:	2019-03-05 to 2019-03-06
Date of Issue:	2019-03-19
Test Result:	**Pass***

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

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.

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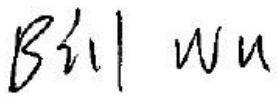
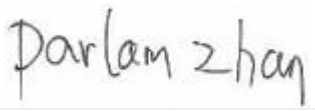
Revision Record			
Version	**Description**	**Date**	**Remark**
00	Original	2019-03-19	/

Authorized for issue by:				
				
		Bill Wu / Project Engineer		
				
		Parlam Zhan /Reviewer		

2 Contents

3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 12V 2A By adapter
Test voltage:	AC 120V/60Hz
Antenna Gain	Antenna1:2.84dBi
	Antenna2:2.84dBi
Direction Gain	5.84dBi at 802.11n
Antenna Type	PIFA&Chip 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.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **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 SHEM190301130401

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	15.13	11.87	NA	32.58	15.38	N/A
11B	2437	15.37	12.6	NA	**34.43**	18.20	N/A
11B	2462	15.16	12.8	NA	32.81	19.05	N/A
11G	2412	14.17	12.15	NA	26.12	16.41	N/A
11G	2437	14.61	12.74	NA	28.91	18.79	N/A
11G	2462	14.59	12.94	NA	28.77	19.68	N/A
11N20MIMO	2412	13.30	11.73	15.60	21.38	14.89	36.31
11N20MIMO	2437	14.01	12.69	16.41	25.18	18.58	**43.75**
11N20MIMO	2462	13.61	12.65	16.17	22.96	18.41	41.40
11N40MIMO	2422	12.19	10.64	14.49	16.56	11.59	28.12
11N40MIMO	2437	12.11	9.64	14.06	16.26	9.20	25.47
11N40MIMO	2452	12.02	10.89	14.50	15.92	12.27	28.18

5.2 MPE Calculation

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

Note:

1) P (Watts)
2) G (Antenna gain in numeric)
3) R = distance to the center of radiation of antenna (in meter) = 20cm
4) MPE limit = 1mW/cm²

For FCC:

The max conducted output power is 34.4 mW .
The best case gain of the antenna is 2.84 dBi. 2.84dB logarithmic terms convert to nume result is nearly 1.92 .

So, $S=\frac{PG}{4R^2\pi}$ = 0.01 mW/cm^2 ＜1mW/cm²

For MIMO:

The best case gain of the antenna is 5.84 dBi. 5.84dB logarithmic terms convert to nume result is nearly 3.85 .

So, $S=\frac{PG}{4R^2\pi}$ = 0.03 mW/cm^2 ＜1mW/cm²

So the device is exclusion from SAR test.

--End of the Report--