



**1 Cover Page**

# ***RF Exposure Evaluation Report***

**Application No.:** SHEM1811000655CR  
**FCC ID** SVNDH-IPC-AX6H  
**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-A26HP, IPC-A26HP-IMOU, IPC-A26HN, IPC-A26HN-IMOU, IPC-A26HP-imou, IPC-A26HN-imou  
 ☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Standard(s) :** FCC Rules 47 CFR §2.1091  
 KDB447498 D01 General RF Exposure Guidance v06

**Date of Receipt:** 2018-11-15  
**Date of Test:** 2018-11-19 to 2018-11-20  
**Date of Issue:** 2018-11-28

<b>Test Result:</b>	<b>Pass*</b>
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\* 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.



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**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**



Revision Record			
Version	Description	Date	Remark
00	Original	2018-11-28	/

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



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 5V by adapter Adapter: Model No.:NBS10B050200VUU Input:100-240V~,50/60Hz,0.3A Output:5V-2A
Test voltage:	AC 120V 60Hz
Cable:	DC Cable 3m for adapter
Antenna Type	Integral 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
Antenna Gain	1.28dBi

### 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 <sup>2</sup> )	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 SHEM181100065501

Test Mode	Test Channel	Ant	Level [dBm]	Power [dBm]	Power [mW]
11B	2412	Ant1	14.06	14.06	25.47
11B	2442	Ant1	13.99	13.99	25.06
11B	2472	Ant1	14.23	14.23	<b>26.49</b>
11G	2412	Ant1	11.89	11.89	15.45
11G	2442	Ant1	12.44	12.44	17.54
11G	2472	Ant1	12.89	12.89	19.45
11N20SISO	2412	Ant1	10.39	10.39	10.94
11N20SISO	2442	Ant1	11.04	11.04	12.71
11N20SISO	2472	Ant1	11.58	11.58	14.39
11N40SISO	2422	Ant1	9.66	9.66	9.25
11N40SISO	2437	Ant1	9.77	9.77	9.48
11N40SISO	2452	Ant1	9.99	9.99	9.98

## 5.2 MPE Calculation

The Max Conducted Peak Output Power is 26.49mW;

The best case gain of the antenna is 1.28dBi. 1.28dB logarithmic terms convert to numeric result is nearly 1.34

For FCC:

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/cm<sup>2</sup>

$$S = \frac{PG}{4R^2\pi} = \frac{26.49 \times 1.34}{4 \times 400 \times 3.14} = 0.007 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

So the device is exclusion from SAR test.

**--End of the Report--**