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Report No.: SHEM170400188202
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1 Cover Page

RF MPE REPORT

Application No.:	SHEM1704001882CR
Applicant:	Zhejiang Dahua Vision Technology Co., Ltd.
FCC ID:	SVNDH-IPC-AX6
Equipment Under Test (EUT):	
NOTE: The following sample(s) was/were submitted and identified by the client as	
Product Name:	CONSUMER CAMERA
Model No.(EUT):	DH-IPC-A46P
Add Model No.:	DH-IPC-A46N, DH-IPC-A26P, DH-IPC-A26N, IPC-A46P, IPC-A46N, IPC-A26P, IPC-A26N
Standards:	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2017-04-06
Date of Test:	2017-04-06 to 2017-04-24
Date of Issue:	2017-05-15
Test Result:	Pass*

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.





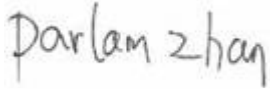
Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

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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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2017-05-15	/	Original

Authorized for issue by:			
Engineer	Eddy Zong		
	Print Name		
Clerk	Susie Liu		
	Print Name		
Reviewer	Parlam Zhan		
	Print Name		

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4 General Information

4.1 Client Information

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:	Zhejiang Dahua Vision Technology Co., Ltd.
Address of Factory:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

4.1 General Description of E.U.T.

Product Description:	Fixed product with 2.4G WiFi function		
Rated Input:	DC 5V 1A		
Test Voltage:	AC 120V 60Hz for Adapter		
Adapter:	Manufacturer:	Mass Power Electronic Limited	
	Model No.:	NBS10B050200VUU	
	Rated Input:	AC 100~240V, 50/60Hz 0.3A	
	Rated Output:	DC 5V 2.0A	
	Cable length:	AC port:	2 wires
DC port:		300 cm	

4.2 Technical Specifications

Operation Frequency:	802.11 b/g/n(HT20): 2412MHz-2462MHz 802.11 n(HT40): 2422MHz-2452MHz
Modulation Technique:	02.11 b DSSS(CCK, DQPSK, DBPSK) 802.11 g/n(HT20)/n(HT40) OFDM(64QAM, 16QAM, QPSK, BPSK)
Data Rate:	802.11 b/g/n(HT20): 11 802.11 n(HT40) 7
Number of Channel:	802.11b: 1/2/5.5/11Mbps, 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7
Antenna Type:	Integral Antenna
Antenna Gain:	2 dBi

4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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

Tel: +86 21 6191 5666

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4.4 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.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **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-3868, C-4336, T-2221, G-830 respectively.

5 Test Standards and Limits

5.1 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

6 Measurement and Calculation

6.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM170400188202.

Test Mode	Test Channel	Power[dBm]	Power[mW]	Limit[dBm]	Verdict
11B	2412	19.49	88.92	30	PASS
11B	2437	21.02	126.47	30	PASS
11B	2462	20.85	121.62	30	PASS
11G	2412	18.58	72.11	30	PASS
11G	2437	20.78	119.67	30	PASS
11G	2462	20.14	103.28	30	PASS
11N20SISO	2412	18.75	74.99	30	PASS
11N20SISO	2437	20.26	106.17	30	PASS
11N20SISO	2462	20.04	100.93	30	PASS
11N40SISO	2422	19.77	94.84	30	PASS
11N40SISO	2437	20.36	108.64	30	PASS
11N40SISO	2452	21.29	134.59	30	PASS

6.2 MPE Calculation

The Max Conducted Peak Output Power is 21.29dBm (134.59 mW);

The best case gain of the antenna is 2dBi. 2dB logarithmic terms convert to numeric result is nearly 1.58.

For FCC:

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

Note:

- 1) P (Watts) = Power Input to antenna = $10^{\frac{dBm}{10}} / 1000$
- 2) G (Antenna gain in numeric) = $10^{\text{(Antenna gain in dBi / 10)}}$
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm²

$$S = \frac{PG}{4R^2\pi} = \frac{134.59 \times 1.58}{4 \times 400 \times 3.14} = 0.042 \text{ mW/cm}^2$$

So the device is exclusion from SAR test.

7 EUT Constructional Details

Refer to the < DH-IPC-A46P _External Photos > & < DH-IPC-A46P _Internal Photos >.

--End of the Report--