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1 Cover Page

RF Exposure Evaluation Report

Application No.: SHEM1911019146CR **FCC ID:** SVNDH-IPC-TX6E

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

Equipment Under Test (EUT):

EUT Name: CONSUMER CAMERA

Model No.: IPC-T26EP

Add Model No.: IPC-T26EN; IPC-T26EP-imou; IPC-T26EN-imou; IPC-T26E

FCC Rules 47 CFR §2.1091

Standard(s): KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2019-11-25

Date of Test: 2019-11-26 to 2019-12-05

Date of Issue: 2019-12-06

Test Result: Pass*

parlan 2han

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: CND occheck (@sas.com)

NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612 t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn 中国・上海・松江区金都西路588号 邮编: 201612 t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

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



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Revision Record							
Version Description Date Remark							
00 Original		2019-12-06	/				

Authorized for issue by:		
	Vincent Zhu	
	Vincent Zhu /Project Engineer	
	Parlam zhan	
	Parlam Zhan /Reviewer	



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3 General Information

3.1 General Description of E.U.T.

•		
	DC 12V by adapter	
	Adapter:	
Power supply:	Model:ADS-12AM-12 12012EPCU	
	Input:100-240V~50/60Hz Max 0.3A	
	Output:DC 12V 1A	
Test voltage:	AC120V 60Hz	
Cable:	DC Cable 1.5m for adapter	

3.2 Technical Specifications

Antenna Gain	Antenna1: 2.84dBi Antenna2: 2.84dBi
	MIMO:5.85 dBi
Antenna Type	Antenna1: Integral Antenna
	Antenna2: Integral Antenna
Channel Spacing	5MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK)
iviodulation Type	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Champala	802.11b/g/n(HT20):11
Number of Channels	802.11n(HT40):7
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz
operation requerity	802.11n(HT40): 2422MHz to 2452MHz



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3.3 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

3.4 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.

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.



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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/cm²)	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 SHEM191101914601

Test Mode	Channel	Antenna 1 Power[dBm]	Antenna 2 Power[dBm]	MIMO Power[dBm]	Antenna 1 Power[mW]	Antenna 2 Power[mW]	MIMO Power[mW]
11B	2412	15.42	13.85	NA	34.83	24.27	N/A
11B	2437	15.31	13.57	NA	33.96	22.75	N/A
11B	2462	14.3	12.49	NA	26.92	17.74	N/A
11G	2412	15.07	15.04	NA	32.14	31.92	N/A
11G	2437	14.98	14.67	NA	31.48	29.31	N/A
11G	2462	14.01	13.57	NA	25.18	22.75	N/A
11N20SISO	2412	14.24	14.4	17.33	26.55	27.54	54.08
11N20SISO	2437	14.05	13.84	16.96	25.41	24.21	49.66
11N20SISO	2462	13.13	12.68	15.92	20.56	18.54	39.08
11N40SISO	2422	14.54	14.44	17.50	28.44	27.80	56.23
11N40SISO	2437	14.32	14.00	17.17	27.04	25.12	52.12
11N40SISO	2452	13.82	13.41	16.63	24.10	21.93	46.03



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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

SISO mode:

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
34.83	1.923	20	0.01333	1	Pass

MIMO mode:

The max. antenna gain is 5.85 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm²)	Result
56.23	3.846	20	0.04302	1	Pass

So the device is exclusion from SAR test.

-- End of the Report--