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1 Cover Page

RF Exposure Evaluation Report

Application No.:	SHEM1808007193CR		
Applicant:	Digital Peripheral Solutions Inc		
FCC ID:	2ANQL-QCW2MP		
Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as			
Product Name:	Wi-Fi HD Camera		
Model No.:	QCW2MP		
Add Model No.:	Q-See		
Standards:	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06		
Date of Receipt:	2018-08-22		
Date of Test:	2018-08-27 to 2018-08-27		
Date of Issue:	2018-09-14		
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	2018-09-14	/	

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



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3 General Information

3.1 Client Information

Applicant:	Digital Peripheral Solutions Inc		
Address of Applicant:	8015E Crystal Drive, Anaheim, CA 92807 USA		
Manufacturer:	Digital Peripheral Solutions Inc		
Address of Manufacturer:	8015E Crystal Drive, Anaheim, CA 92807 USA		
Factory:	1, ZHEJINAG DAHUA VISION TECHNOLOGY CO., LTD. 2, ZHEJIANG DAHUA ZHILIAN CO., LTD.		
1, No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. C Address of Factory: 2, NO.28, Dongqiao Road, Dongzhou Street, Fuyan Hangzhou, P.R.China			

3.2 General Description of E.U.T.

Power supply:	DC 5V by USB Port	
Test voltage:	AC 120V 60Hz	
Antenna Gain	1.28 dBi	
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	



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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, Xingiao, 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.

• 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.



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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



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM180800719301

Test Mode	Test Channel	Power [dBm]	Power [mW]
11B	2412	15.06	32.06
11B	2437	14.91	30.97
11B	2462	15.18	32.96
11G	2412	14.11	25.76
11G	2437	14.56	28.58
11G	2462	15.05	31.99
11N20SISO	2412	13.96	24.89
11N20SISO	2437	14.42	27.67
11N20SISO	2462	14.96	31.33
11N40SISO	2422	14.28	26.79
11N40SISO	2437	14.47	27.99
11N40SISO	2452	14.76	29.92



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5.2 MPE Calculation

The Max Conducted Peak Output Power is 32.96mW;

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/cm²

$$S = \frac{PG}{4R^2\pi} = \frac{32.96 \times 1.34}{4 \times 400 \times 3.14} = 0.009 \text{ mW/cm}^2 < 1 \text{mW/cm}^2$$

So the device is exclusion from SAR test.

--End of the Report--