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RF Exposure Evaluation Report

Application No.: SZEM1406002866RF

Applicant: Sky Light Imaging Limited

Manufacturer: Sky Light Imaging Limited

Factory SKY LIGHT Electronic (ShenZhen) Limited

Product Name: Video Cloud Camera/ iON The Home/ iON The Home-Black/ iON The Home-

White

Model No.(EUT): HPC01

Add Model No.: HPC01A, HPC01B, HPC01C, HPC01D, HPC01E, HPC01F, HPC01G,

HPC02, HPC02A, HPC02B, HPC02C, HPC02D, HPC02E, HPC02F, HPC02G, 2001, 2001W, 2002, 2002W, 2003, 2004, 2005, 2006, 2007, 2008,

2009, 2010

FCC ID: 2ABT4HPC01

Standards: 47 CFR Part 1.1307(2013)

47 CFR Part 1.1310(2013)

Date of Receipt: 2014-06-09

Date of Test: 2014-06-24 to 2014-07-01

Date of Issue: 2014-07-08

Test Result : PASS*

Authorized Signature:



Jack Zhang EMC Laboratory 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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



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3 General Information

3.1 Client Information

Applicant:	Sky Light Imaging Limited			
Address of Applicant:	Rm. 1009 Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong			
Manufacturer:	Sky Light Imaging Limited			
Address of Manufacturer:	Rm. 1009 Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong			
Factory:	SKY LIGHT Electronic (ShenZhen) Limited			
Address of Factory:	No. 5&6 Building, JinBi Industrial Area, HuangTian, BaoAn, Shenzhen, China.			

3.2 General Description of EUT

Product Name:	Video Cloud Camera/ iON The Home/ iON The Home-Black/ iON The Home-White				
Model No.:	HPC01, HPC01A, HPC01B, HPC01C, HPC01D, HPC01E, HPC01F, HPC01G, HPC02, HPC02A, HPC02B, HPC02C, HPC02D, HPC02E, HPC02F, HPC02G, 2001, 2001W, 2002, 2002W, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010				
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz				
Channel Numbers: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels					
Channel Separation: 5MHz					
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)				
EUT Function:	Video Cloud Camera				
Sample Type:	Fixed production				
Test Power Grade: 16 (manufacturer declare)					
Antenna Type and Gain:	Type: Integral Gain:1dBi				
Power Supply:	AC adapter:MODEL:ASUC30a-050100, ASUC32a-050100 INPUT:AC 100-240V~50/60Hz 0.3A OUTPUT:5.0V==1000mA				
Test Voltage:	AC 120V 60Hz				
USB Cable:	300cm(Unshielded)				
Remark:	Only the Model HPC01 was tested, since the circuit design, PCB layout, electrical components used, internal wiring and functions were identical for the above models, with difference of model No., color and brand name.				

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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.



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3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab 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.

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6			
(B) Limits for General Population/Uncontrolled Exposure							
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30			

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 1dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.2589 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm ²)		
Middle	2437	15.64	36.6438	0.0092	1.0	PASS

Note: Refer to report No. SZEM140600286601 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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