

Report No.: SZCR210302022003

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RF Exposure Evaluation Report

Application No.: SZCR2103020220AT

Applicant: Pricer AB

Address of Applicant: Pricer AB, Box 215, SE-101 24 Stockholm, Sweden

Manufacturer: Pricer AB

Address of Manufacturer: Västra Järnvägsgatan 7, SE-111 64 Stockholm, Sweden

Factory: ABILITY TECHNOLOGY (DONG GUAN) Co., Ltd

Address of Factory: Hua Nan Industri Park, Lia Bu Park. Dongguan, Province, China

Equipment Under Test (EUT):

EUT Name: Battery powered WIFI-camera (IOT)

Model No.: 66310-00, 66310-01, 66310-02, 66310-03, 66310-04, 66310-05, 66310-06,

66310-07 4

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: Pricer Shelf View Camera

FCC ID: 2ACC866310

Standards: 47 CFR Part 1.1307 (2016)

47 CFR Part 1.1310 (2016)

Date of Receipt: 2021-03-25

Date of Test: 2021-04-15 to 2021-04-21

Date of Issue: 2021-04-25

Test Result : PASS*

Keny Xu EMC Laboratory Manager



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In the configuration tested, the EUT complied with the standards specified above.



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2 Version

Revision Record						
Version	Chapter Date Modifier		Remark			
01		2021-04-25		Original		

Authorized for issue by:		
	Bir Chan	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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4 General Information

4.1 General Description of EUT

Power supply:	Battery Model: ER1450SM-2			
	Output: DC 3.6 V			
	And DC 3 V ('CR 2032' size battery x 1)			
For 2.4G				
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz			
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			
Channel Spacing:	5MHz			
Antenna Type:	Monopole			
Antenna Gain:	-1.2dBi			
For 5G:				
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500- 5700MHz			
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510- 5670MHz			
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Channel Spacing:	802.11a/n(HT20): 20MHz; 802.11n(HT40)/:40MHz			
DFS Function:	Slave without Radar detection			
TPC Function:	Support TPC function			
Antenna Type:	Monopole			
Antenna Gain:	-1.0dBi			

Remark:

Model No.: 66310-00, 66310-01, 66310-02, 66310-03, 66310-04, 66310-05, 66310-06, 66310-07 Only the model 66310-00 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on different on model No, color and optical lens size.



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4.2 Test Location

All tests were performed at:

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

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.

4.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

· Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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 Magnetic field strength (V/m) (A/m)		Power density (mW/cm²)	Averaging time (minutes)	
(A) Lim	its for Occupational	/Controlled Exposu	res		
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure		
0.3–1.34	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*R2)

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.

5.1.2 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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5.1.3 EUT RF Exposure Evaluation

For 2.4G:

Antenna Gain: -1.2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.76 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)		
Lowest	2437	19.93	98.40	0.01485	1.0	PASS

Note: Refer to report No. SZCR210302022001 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.

For 5G:

Antenna Gain: -1.0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.79 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)		
Lowest	5230	14.86	30.62	0.00484	1.0	PASS

Note: Refer to report No. SZCR210302022002 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.

Remark: the 2.4GHz and 5GHz couldn't transmit simultaneously.

- End of the Report -



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