

Report No.: SZCR211202435103

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RF Exposure Evaluation Report

Application No.: SZCR2112024351AT **Applicant:** Rolf C. Hagen Inc.

Address of Applicant: 20500 Trans Canada Hwy, Baie d'Urfe, QC H9X 0A2, Canada

Manufacturer: SKYRC Technology Co.,Ltd

Address of Manufacturer: 4,5,8/F, Building No.4, Meitai Science Park, Guanguang South Road,

Guihua, Guanlan, Longhua District, Shenzhen 518110, China

Factory: SKYRC Technology Co.,Ltd

Address of Factory: 4,5,8/F, Building No.4, Meitai Science Park, Guanguang South Road,

Guihua, Guanlan, Longhua District, Shenzhen 518110, China

Equipment Under Test (EUT):

EUT Name: Catit Pixi Smart Mouse Camera

Model No.: 43758

FCC ID: 2ANPT-43758

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2022-03-02

Date of Evaluation: 2022-03-10 to 2022-03-16

Date of Issue: 2022-03-16

Evaluation Result: Pass*



Kidd Yang EMC Laboratory Manager



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



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2022-03-16		Original	

Authorized for issue by:			
	Tree Zhan		
	Tree Zhan/Project Engineer		
	WinkeyWarg		
	Winkey Wang/Reviewer	-	



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3 General Information

3.1 Details of E.U.T.

Modulation Type:

Power Supply: Input 5Vdc via adapter

Adapter: Input 100-240V~, 50/60Hz, 0.25A max; Output 5Vdc, 1000mA

Adapter Model: KA06E-0501000US

Cable(s): USB cable: 120cm, unshielded

802.11b/g/n(HT20): 2412MHz to 2462MHz;

Operation Frequency: 802.11n(HT40): 2422MHz to 2452MHz

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: Integral Antenna

Antenna Gain: 4dBi

3.2 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.





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3.3 Test Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None

3.6 Other Information Requested by the Customer

None.





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4 Radio Spectrum Technical Requirement

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	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.

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

For 2.4GHz WIFI:

Antenna Gain: 4dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.51 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
2462	15.65	36.73	0.018	1.0	PASS

Note: Refer to report No. SZCR211202435102 for EUT test Max Conducted Output Power Value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -

