

FCC RF EXPOSURE REPORT

Applicant	:	AAMP of Florida, Inc. dba AAMP Global	
Address of Applicant	:	15500 Lightwave Drive, Suite 202 Clearwater, FL 33760	
Manufacturer	:	Skypine Electronics (ShenZhen)Co.,Ltd	
Address of Manufacturer	•	Third floor, Building B,Jingang Science Park,Qiaotou Community,Fuhai Street,Baoan District,Shenzhen City,Guangdong Province,China	
Equipment under Test	:	NAVGATION MULTIMEDIA RECEIVER	
Model No.	:	iX210, iX210-C, iX210-SR, iX210-E, iX212, iX212-C, iX212-SR, iX212-E, iX215, iX215-C, iX215-SR, iX215-E	
FCC ID	:	XBD-IX210	
Test Standard(s)	1	KDB447498 D01 General RF Exposure Guidance v06	
Report No.	:	DDT-RE23101322-2E05	
Issue Date	:	2023/11/25	
Issue By	•	Guangdong Dongdian Testing Service Co., Ltd.	
Address of Laboratory	•	Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808	



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Test Report Declare

Applicant	:	AAMP of Florida, Inc. dba AAMP Global	
Address of Applicant	dress of Applicant : 15500 Lightwave Drive, Suite 202 Clearwater, FL 3376		
Equipment under Test	:	NAVGATION MULTIMEDIA RECEIVER	
Model No.	:	iX210, iX210-C, iX210-SR, iX210-E, iX212, iX212-C, iX212-SR, iX212-E, iX215, iX215-C, iX215-SR, iX215-E	
Manufacturer	:	Skypine Electronics (ShenZhen)Co.,Ltd	
Address of Manufacturer		Third floor, Building B, Jingang Science Park, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, China	

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Guangdong Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Guangdong Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE23101322-2E	:05	
Date of Receipt:	2023/10/18	Date of Test:	2023/10/18-2023/11/25
Pro	epared By:		Approved By:
S	acky Huang		Damon Mu
Jacky H		Da	amon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

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Revision History

Rev.	Revisions		Issue Date	Revised By
	Initial issue	(8)	2023/11/25	(8)
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1. General Information

1.1. Description of equipment

EUT Name	: NAVGATION MULTIMEDIA RECEIVER
Model Number	iX210, iX210-C, iX210-SR, iX210-E, iX212, iX212-C, iX212-SR, iX212-E, iX215, iX215-C, iX215-SR, iX215-E
Model Difference	All models have same electrical circuit design, only the model's name: Software, LCD Screen size, mechanical and package are different for marketing requirements. The test model is iX210
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V
Radio Specification	Bluetooth V4.2 (BR/EDR/LE), : WLAN (2.4 GHz): IEEE 802.11b/g/n, WLAN (5 GHz): IEEE 802.11a/n/ac
Operation Frequency	Bluetooth (BR/EDR/LE): 2402 MHz-2480 MHz : IEEE 802.11b/g/n: 2412 MHz to 2462 MHz, IEEE 802.11a/n/ac: 5180 MHz to 5240 MHz, 5745 MHz to 5825 MHz
Modulation	Bluetooth BR/EDR: GFSK, π/4-DQPSK, 8DPSK Bluetooth LE: GFSK IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Sample Number	: S23101322-02 for conductive, S23101322-03 for radiation

Note 1: EUT is the abbreviation of equipment under test.

Note 2: Simultaneously transmission condition: Does not support Bluetooth, 2.4G WIFI, 5G WIFI any two or three wireless technologies transmit at the same time.

Note 3: Antenna information:

Antenna information		
Antenna Type	: FPC	
Antonno Coin (dPi)	3.53 dBi for 2.4G Band,	
Antenna Gain (dBi)	3.62 dBi for 5G Band	®

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1.2. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

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2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-100,000			1.0	30	

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

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2.3. Estimation result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm²)	MPE Limit (mW/cm²)
BT	9.02	7.98	10.50	3.53	2.25	0.004	1
BLE	7.58	5.73	9.00	3.53	2.25	0.003	1
2.4G WIFI	15.67	36.90	17.00	3.53	2.25	0.017	1
5G WIFI	16.11	40.83	16.50	3.62	2.30	0.019	1

Note 1: The estimation distance is 20 cm

Note 2: Simultaneously transmission condition: Does not support Bluetooth, 2.4G WIFI, 5G WIFI any two or three wireless technologies transmit at the same time.

Conclusion: MPE evaluation required since transmitter power is below FCC threshold.

END OF REPORT

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