RED-Health Test Report

Client Name	:	HUANSHENG INTELLIGENCE(SHENZHEN) CO.,LTD
Address	:	Building A&B of HuanSheng Science Park, No.8 FengWei Street,LongGang District,ShenZhen,China
Product Name	:	Protector Film Cutter
Date	:	Dec. 29, 2020

Shenzhen Anbotek Compliance Laboratory Limited

Contents

TEST REPORT

Applicant	:	HUANSHENG INTELLIGENCE(SHENZHEN) CO.,LTD
Manufacturer	:	HUANSHENG INTELLIGENCE(SHENZHEN) CO.,LTD
Product Name	:	Protector Film Cutter
Model No.	:	X5
Trade Mark	:	N.A.
Rating(s)	:	Input: 110V-240V~50/60Hz 1.5A Max
Test Standard(s)	:	**EN 62311: 2008**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 62311:2008 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Nov. 18, 2020

Date of Test Nov. 18~Dec. 11, 2020

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Reviewer Bibo Zhang

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Approved & Authorized Signer Kingkong Jin

(Manager / Kingkong Jin)

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1. GENERAL INFORMATION

1.1. Client Information

Applicant	:	HUANSHENG INTELLIGENCE(SHENZHEN) CO.,LTD
Address	:	Building A&B of HuanSheng Science Park, No.8 FengWei Street,LongGang District,ShenZhen,China
Manufacturer	:	HUANSHENG INTELLIGENCE(SHENZHEN) CO.,LTD
Address	:	Building A&B of HuanSheng Science Park, No.8 FengWei Street,LongGang District,ShenZhen,China
Factory	:	HUANSHENG INTELLIGENCE(SHENZHEN) CO.,LTD
Address	:	Building A&B of HuanSheng Science Park, No.8 FengWei Street,LongGang District,ShenZhen,China

1.2. Description of Device (EUT)

Product Name	:	EyeRide	
Model No.	:	X5	
Trade Mark	:	N.A.	
Test Power Supply	:	AC 230V, 50Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	Wifi 2.4G: 2412MHz~2472MHz Wifi 5.1G: 5150-5250MHz Wifi 5.8G: 5725~5850MHz
		Number of Channel:	Wifi 2.4G: 13 Channels for 802.11b/g/n(HT20) Wifi 5.1G: 4 Channels for 802.11a/ 802.11n(HT20)/ 802.11ac(HT20) 2 Channels for 802.11n(HT40)/ 802.11ac(HT40) 1 Channels for 802.11ac(HT80) Wifi 5.8G: 5 Channels for 802.11a/ 802.11n(HT20)/ 802.11ac(HT20) 2 Channels for 802.11n(HT40)/ 802.11ac(HT40) 1 Channels for 802.11ac(HT80)
		Modulation Type:	Wifi 2.4G: OFDM with BPSK / QPSK / 16QAM / 64QAM for 802.11b/g/n Wifi 5.1G: 802.11a OFDM; 802.11n MCS, 802.11ac MCS Wifi 5.8G: OFDM with BPSK / QPSK / 16QAM /

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			64QAM for 802.11a/n/ac
		Antenna Type:	Wifi 2.4G: FPC Antenna Wifi 5.1G: FPC Antenna Wifi 5.8G: FPC Antenna
		Antenna Gain(Peak):	Wifi 2.4G: 2 dBi Wifi 5.1G: 2 dBi Wifi 5.8G: 2 dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used during Test

Adapter	:	MODEL:YW-240200 INPUT 100-240V~ 50/60Hz, 1.5A Max OUTPUT: DC 24V, 2.0A 48VA Max

1.4. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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. 184111, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

2. GENERAL PRODUCT INFORMATION

2.1 Basic Restriction

The essential requirements of Directive 99/519/EC in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure. EN 50371:2002 Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields. The average power of EUT is less than 20mW then comply with basic restriction (1999/519/EC) without test.

2.2 Table for Filed Antenna

	Antenna Type	Gain (dBi)
Wifi 2.4G	FPC Antenna	2 dBi
Wifi 5.1G		
Wifi 5.8G		

3.TEST RESULT

3.1 Limit

Council Recommendation 99/519/EC Annex III

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m2)
0-1Hz	-	3,2×104	4×104	-
1-8Hz	1000	3,2×104/f2	4×104/f2	-
8-25Hz	1000	4000/f	5000/f	-
0.025Hz-0,8kHz	250/f	4/f	5/f6,25	-
0,8-3kHz	250/f	5	6,25	-
3-150kHz	87	5	6,25	-
0,15-1MHz	87	0.73/f	0,92/f	-
1-10MHz	87/f1/2	0.73/f	0,92/f	-
10-400MHz	28	0.073	0,092	2
400-2000MHz	1,375 f1/2	0,0037 f1/2	0,0046f1/2	f/200
2-300GHz	61	0,16	0,20	10

Note:
(1)As indicated in the frequency range column.
(2)For frequencies between 100kHz and 10GHz, Seq, E2, H2 and B2 are to be averaged over any six-minute period.
(3)For frequencies exceeding 10GHz, Seq, E2, H2 and B2 are to be averaged over any 68/.1.05-minute period (.in GHz).
(4)No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.

3.2 Detailed results

3.2.1 MPE Evaluation

S =PG* Duty factor / 4πR²
P = Peak Power Input to antenna (Watts)
G =Antenna Gain (numeric)
R = distance to the center of radiation of antenna (in meter) = 0.20 m
Note:
1) P (Watts)=(10 ^ (dBm /10))/1000
2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)
3) Duty factor=1
4) π=3.142

The maximum power density at a distance of 0.2 m for EUT is shown as below:

Test Mode	Antenna Gain(dBi)	Peak Output Power (dBm)	Peak Output Power (W)	Duty factor	Calculated RF Exposure (W/ m²)	Limit (W/ m²)
Wifi 2.4G	2	17.74	0.059	1	0.187	10
Wifi 5.1G	2	17.57	0.057	1	0.180	10
Wifi 5.8G	2	13.62	0.023	1	0.073	10

---------- End of Report ----------