Report No.: JCF240923023-011



RF EXPOSURE REPORT

Applicant:	Guangzhou Shirui Electronics Co.,Ltd				
Address:	192 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China				
Manufacturer:	Guangzhou Shirui Electronics Co.,Ltd				
Address:	192 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China				
Product Description:	Interactive Intelligent Panel				
Brand Name:	NA				
Tested Model:	CH65GC, CH75GC				
FCC ID:	2AFG6-CHXXGC				
Report No.:	JCF240923023-011				
Received Date:	Sep. 18, 2024				
Tested Date:	Sep. 18, 2024 - Oct. 25, 2024				
Issued Date:	Oct. 25, 2024				
Test Standards:	KDB 447498 D01 General RF Exposure Guidance v06				
Test Result:	Pass				
Prepared By: Kennys Zhang					
Kennys Zhang/Engineer	Date: 5ct. 25, 2023				
Reviewed By:	JCOA E				
Roger Li	S. S.				
Roger Li/Engineer	er Li/Engineer Date: 0225,2024				
Approved By:					
Talence shong					
Talent Zhang/Engineer	Date: Oct. 25, 2024				

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 25, 2024	Original Report	/

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Product Name	Interactive Intelligent Panel				
Brand Name: NA					
Model Name:	CH65GC, CH75GC				
Difference Description:	Compare with CH65GC, CH75GC only the appearance, size ,LCD panel ,T-CON board and power main board are different, others completely the same.				

1. Test Report Declare

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Equipment Under Test

2.1. Description of EUT

EUT* Name:	Interactive Intelligent Panel				
Model Number:	CH65GC, CH75GC				
EUT Function Description:	Please refer to user manual of this device				
Power Supply:	100-240V~ 50/60Hz 3.5A				
Hardware Version:	N/A				
Software Version:	N/A				
Radio Specification:	Bluetooth V5.4, IEEE802.11b/g/n/a/ac/ax				
Operation Frequency:	Bluetooth: 2402MHz-2480MHz IEEE802.11b/g/n/a/ac/ax: 2412MHz-2472MHz, 5180MHz-5700MHz, 5745MHz-5825MHz				
Modulation:	Bluetooth: GFSK, π/4-DQPSK, 8DPSK IEEE 802.11b: DSSS (CCK, QPSK, BPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac (HT20/40/80): OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40/80): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Data Rate:	Bluetooth: 1Mbps, 2Mbps, 3Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65.0, 72.2 Mbps IEEE 802.11n HT40: 15, 30, 45, 60, 90, 120, 135, 150 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps IEEE 802.11ac VHT20: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.7 Mbps IEEE 802.11ac VHT40: 15, 30, 45, 60, 90, 120, 135, 150, 180, 200 Mbps IEEE 802.11ac VHT40: 15, 30, 45, 60, 90, 120, 135, 150, 180, 200 Mbps IEEE 802.11ac VHT80: 32.5, 65, 97.5, 130, 195, 260, 292.5, 325, 390, 433.3 Mbps IEEE 802.11ax HE20: 8.6, 17.2, 25.8, 34.4, 51.6, 68.8, 77.4, 86, 103.2, 114.7, 129, 143.4Mbps IEEE 802.11ax HE40: 17.2, 34.4, 51.6, 68.8, 103.2, 137.6, 154.9, 172.1, 206.5, 229.4, 258.1, 286.8Mbps IEEE 802.11ax HE80: 36, 72.1, 108.1, 144.1, 216.2, 288.2, 324.3, 360.3, 432.4, 480.4, 540.4, 600.5Mbps				
	Bluetooth: SMA Antenna, MAX. Gain: 4.06 dBi 2.4G WIFI: SMA Antenna, MAX. Gain: 4.06 dBi 5G WIFI: SMA Antenna, MAX. Gain: 3.35 dBi				
Product Type:	•Portable device •Mobile device •Fixed device				

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

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

Test Mode	Transmit and Receive Mode	Description		
BT&BLE	🖾 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.		
2.4G WIFI	🖂 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.		
5G WIFI	🛛 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.		

2.2. Description of Available Antennas

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. RF Exposure Measurement

4.1. 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.

Frequency Range (MHz)	Electric Field Strength (V/m)			Average Time (Minutes)	
Limits For General Population / Uncontrolled Exposure					
0.3–1.34	614	1.63	*(100)	30	
1.34–30	824/f	2.19/f	*(180/f ²)	30	
30–300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-100,000			1.0	30	

4.2. Limits for Maximum Permissible Exposure (MPE)

F = Frequency in MHz

* = Plane-wave equivalent power density.

4.3. MPE Calculation 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

4.4. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

4.5. Conducted Power

Band	Channel Frequency (MHz)	Average Power (dBm)
BT&BLE	2441	7.98
2.4G WIFI	2437	20.68
5G WIFI	5550	17.62

5. RF Exposure Calculation

We used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

Band	Channel Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm²)	Limit (mW/cm²)	PASS/FAIL
BT&BLE	2441	7.98	4.06	0.003	1	PASS
2.4G WIFI	2437	20.68	4.06	0.059	1	PASS
5G WIFI	5550	17.62	3.35	0.025	1	PASS

Both of the WLAN and plug-in device can transmit simultaneously, the formula of calculated the MPE is:

CPD1/LPD1+CPD2/LPD2+.....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Therefore the worst-case situation is 0.003/1.00+0.059/1.00+0.025/1.00=0.087, which is less than "1", This confirmed that the device comply with FCC 1.1310 MPE limit.

--END--