



Test Report

Report No.: RKEYS251209247

Date: Dec.30, 2025

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RF EXPOSURE EVALUATION REPORT

for

Product: 3D LED Infinity Mirror Light

Model: Sanjiaoxing30, sanjiaoxing50, sanjiaoxing70, babianxing30, babianxing50, babianxing70, yuanxing30, yuanxing50, yuanxing70, liubianxing30, liubianxing50, liubianxing70, fangxing30, fangxing50, fangxing70

FCC ID: 2BT2G-SANJIAOXING30

Report No.: RKEYS251209247

Issued for

shanxichuangmingyouxinkejiyouxiangongsi

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Issued by

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1. TEST CERTIFICATION

Product: 3D LED Infinity Mirror Light

Trade mark: XQDUPDA

FCC ID: 2BT2G-SANJIAOXING30

Main Model: Sanjiaoxing30

Model List(s): sanjiaoxing50, sanjiaoxing70, babianxing30, babianxing50, babianxing70, yuanxing30, yuanxing50, yuanxing70, liubianxing30, liubianxing50, liubianxing70, fangxing30, fangxing50, fangxing70

Applicant : shanxichuangmingyouxinkejiyouxiangongsi

Address: shanxishengtaiyuanshijinyuanqujinshengzhenjiajiazhuangjiehengdaqingyuncheng3haolou1danyuan2201, China

Manufacturer: shanxichuangmingyouxinkejiyouxiangongsi

Address: shanxishengtaiyuanshijinyuanqujinshengzhenjiajiazhuangjiehengdaqingyuncheng3haolou1danyuan2201, China

Applicable Standards: CFR 47, FCC Part 2.1091

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

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Approved by:

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2. GENERAL INFORMATION

2.1. General Description of E.U.T.

Product Name	3D LED Infinity Mirror Light
Main Model	Sanjiaoxing30
Specification	2.4G WIFI, Bluetooth
Mode	802.11b/g/n20, BLE
Operating frequency	2412-24622MHz for 802.11b/g/n20; 2402-2480 MHz for BLE
Number of Channel	11 Channels for 802.11b/g/n20 40 Channels for BLE
Antenna installation	PCB antenna (declared by manufacturer)
Antenna Gain	0dBi
Type of Modulation	DSSS for 802.11b OFDM for 802.11g/n GFSK for BLE

Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. RF EXPOSURE EVALUATION

3.1. Limits

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) 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

3.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density

P: power input to antenna

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

- 1) P (Watts)=(10 ^ (dBm /10))/1000
- 2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)
- 3) $\pi=3.142$

3.3. Test Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
b mode	11.52	11±1dBm
g mode	12.21	12±1dBm

n mode	12.01	12±1dBm
BLE	-2.75	-2±1dBm

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

Mode	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
2.4G WIFI	13	0	1	19.9526	0.0040	1	PASS
BLE	-1	0	1	0.7943	0.0002	1	PASS

Note: The 2.4 WIFI and Bluetooth can not transmitting simultaneously

3.4. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

**** End of Report ****