



Report No.: PTC24111615301E-FC02

FCC TEST REPORT

FCC ID: 2BGPT-NY-LED-I55

Product	:	Touch all-in-one machine
Model Name	:	NY-LED-I55, NY-LED-*** (" * "represents any value in" A-Z, 0-9 ", only used to distinguish sales regions and sales channels)
Brand	:	Southwing
Report No.	:	PTC24111615301E-FC02

Prepared for

Guangzhou Nanyi Information Technology Co., Ltd
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Guangzhou Nanyi Information Technology Co., Ltd
Address : 4 / F, No. 18-20, Runke Road, Zhongxin Town, Zengcheng District, Guangzhou
Manufacturer's name : Guangzhou Nanyi Information Technology Co., Ltd
Address : 4 / F, No. 18-20, Runke Road, Zhongxin Town, Zengcheng District, Guangzhou
Product name : Touch all-in-one machine
Model name : NY-LED-I55, NY-LED-*** (" * "represents any value in" A-Z, 0-9 ", only used to distinguish sales regions and sales channels)
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : Apr. 16, 2024 to Jun. 11, 2024
Date of Issue : Jun. 13, 2024
Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read "Jack Zhou".

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read "Simon Pu".

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Touch all-in-one machine
Model Name	:	NY-LED-I55
Additional model	:	NY-LED-*** (" * "represents any value in" A-Z, 0-9 ", only used to distinguish sales regions and sales channels)
Specification	:	802.11b/g/n HT20/HT40
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40)
Number of Channel	:	11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40)
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	External antenna
Antenna Gain	:	5.87 dBi
Power supply	:	Input: AC 100-240V~50/60Hz 60A
Hardware Version	:	N/A
Software Version	:	N/A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

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

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta \varphi$$

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

4.4 Test Result

Test Mode	Test Frequency(M Hz)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
11N40SISO	2422	3.86	20.41	20.41±1	138.356638	0.106348	1	Pass

*****THE END REPORT*****