



FCC TEST REPORT

FCC ID: 2BS45-TY-FC240D-01C

Product	:	Self Service Kiosk , Interactive Panel , Lcd Display, Touch Screen Kiosk
Model Name	:	TY-FC240D-01C
Brand	:	Taiyun
Report No.	:	PTC25102020101E-FC05
Prepared for		
Guangzhou Taiyun Tech Co., Ltd.		
Building 201-1 No. 462 Shixin Road, Dalong Street, Panyu District, Guangzhou, China		
Prepared by		
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Report No.: PTC25102020101E-FC05

TEST RESULT CERTIFICATION

Applicant's name : Guangzhou Taiyun Tech Co., Ltd.

Address : Building 201-1 No. 462 Shixin Road, Dalong Street, Panyu District, Guangzhou, China

Manufacture's name : Guangzhou Taiyun Tech Co., Ltd.

Address : Building 201-1 No. 462 Shixin Road, Dalong Street, Panyu District, Guangzhou, China

Product name : Self Service Kiosk , Interactive Panel , Lcd Display, Touch Screen Kiosk

Model name : TY-FC240D-01C

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : November 13, 2025 to December 30, 2025

Date of Issue : December 30, 2025

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)	FCC CFR47 Part 1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Self Service Kiosk , Interactive Panel , Lcd Display, Touch Screen Kiosk
Model Name	:	TY-FC240D-01C
Additional Model	:	TY-FC156D-01A, TY-FC156D-01B, TY-FC156D-01C, TY-FC156D-01D, TY-FC156D-01E, TY-FC215D-01A, TY-FC215D-01B, TY-FC215D-01C, TY-FC215D-01D, TY-FC215D-01E, TY-FC240D-01A, TY-FC240D-01B, TY-FC240D-01C, TY-FC240D-01D, TY-FC240D-01E, TY-FC270D-01A, TY-FC270D-01B, TY-FC270D-01C, TY-FC270D-01D, TY-FC270D-01E, TY-FC320D-01A, TY-FC320D-01B, TY-FC320D-01C, TY-FC320D-01D, TY-FC320D-01E, TY-FC430D-01A, TY-FC430D-01B, TY-FC430D-01C, TY-FC430D-01D, TY-FC430D-01E, TY-55OD, TY-65OD, TY-75OD, TY-86OD, TY-98OD, TY-110OD
Models Difference	:	Only the model names are different.
Specification	:	Bluetooth BDR+EDR; Bluetooth BLE 802.11b/g/n HT20/HT40 802.11a/n HT20/HT40/ac20/ac40
Operation Frequency	:	2402-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40) 5G Wifi: 5180-5240MHz 5.8G Wifi: 5745-5825MHz
Number of Channel	:	79 channels for BDR+EDR 40 channels For DTS 11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40) 4 channels for 802.11a/n20/ac20 5180-5240 MHz 5 channels for 802.11a/n20/ac20 5745MHz~5825MHz 2 channels for 802.11n40/ac40 5190-5230 MHz 2 channels for 802.11n40/ac40 5755MHz~5795MHz
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS GFSK, For DTS DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/a/ac
Antenna installation	:	External antenna
Antenna Gain	:	2.4GHz: 5.23dBi WIFI5: 3.31dBi
Power supply	:	Input:100V-240Vac Adapter Model:HKA09012070-7U Input:100V-240Vac



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		Output:11.4V-12.6V
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

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta_{\phi}$$

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

Mode	Antenna Gain (dbi)	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
2402(DH5)	5.23	3.33	4.93	4.93 ± 1	3.917418771	0.002598483	1	Pass
2402(BLE_1M)	5.23	3.33	1.27	1.27 ± 1	1.686553025	0.001118716	1	Pass
2412(11N20)	5.23	3.33	15.40	15.40 ± 1	43.65158322 ₄	0.028954756	1	Pass
5230(11N40)	2.14	1.00	13.37	13.37 ± 1	27.35268726 ₃	0.011660574	1	Pass

Conclusion:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. BT and WLAN can't transmit simultaneously.

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