



Report No.: PTC22072901501E-FC02

FCC TEST REPORT

FCC ID: QOB-70643

Product	:	Galaxy Wave smart projector Wi-Fi
Model Name	:	70643, 70643-1, 70643-DK1
Brand	:	ecoscapes, enbrighten, Ultrapro, GE, Philips
Report No.	:	PTC22072901501E-FC02
Prepared for		
Jasco Products Company LLC		
10 e memorial road Building B Attn M Simpkins, oklahoma city, Oklahoma 73114 United States		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.		



Report No.: PTC22072901501E-FC02

TEST RESULT CERTIFICATION

Applicant's name : Jasco Products Company LLC

Address : 10 e memorial road Building B Attn M Simpkins, oklahoma city,
Oklahoma 73114 United States

Manufacture's name : Quang Dong Vu Hao Electronics Co.,Ltd

Address : TOAN MY VILLAGE, VOI TOWN,LANG GIANG DISTRICT,
BAC,GIANG PROVINCE,VIETNAM

Product name : Galaxy Wave smart projector Wi-Fi

Model name : 70643, 70643-1, 70643-DK1

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

Test Date : Aug. 01, 2022 to Aug. 08, 2022

Date of Issue : Aug. 08, 2022

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.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink that reads "Simon Pu".

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Ronnie Liu".

Ronnie Liu / Manager



Contents

	Page
2 TEST SUMMARY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T.	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS	6
4.2 THE PROCEDURES / LIMIT	6
4.3 MPE CALCULATION METHOD	7
4.4 TEST RESULT	7



Report No.: PTC22072901501E-FC02

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	:	Galaxy Wave smart projector Wi-Fi
Model Name	:	70643,70643-1, 70643-DK1
Specification	:	802.11b/g/n HT20
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20)
Number of Channel	:	11 channels for 802.11b/g/ n(HT20)
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	PCB antenna
Antenna Gain	:	0 dBi
Power supply	:	DC 5V 2A
Hardware Version	:	N/A
Software Version	:	N/A

Declaration on model difference

70643, 70643-1 and 70643-DK1 are the same product except model name,-1 means a pack.



4 RF Exposure

Test Requirement : 15.247 (i)

Evaluation Method : FCC Part 2.1091

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

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

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

Item	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
2462	1.26	20.33	20.33 ± 1	135.831345	0.027023	1	Pass

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