

Human Exposure Report

FCC ID: 2AXLP-BP310MOUNT

Report No. : BTL-FCCP-4-2307T086
Equipment : WIRELESS BARCODE MOUNT
Model Name : BP310(DOCKING)
Brand Name :



Applicant : IGT
Address : International Game Technology
 : 9295 Prototype Drive, Reno, Nevada 89521, United States

Standard(s) : 47 CFR § 1.1310

Date of Receipt : 2023/7/28
Date of Test : 2023/8/16 ~ 2023/8/29
Issued Date : 2024/1/29

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Eddie Lee
 Eddie Lee, Engineer

Approved by : Jerry Chuang
 Jerry Chuang, Supervisor

**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

CONTENTS

REVISION HISTORY	4
1 GENERAL INFORMATION	5
1.1 TEST FACILITY	5
1.2 REFERENCE TEST GUIDANCE	5
2 TEST RESULTS	5
2.1 LIMITS	5
2.2 MEASUREMENT DATA	6
3 LIST OF MEASURING EQUIPMENTS	10
4 EUT TEST PHOTO	11

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2307T086	R00	Original Report.	2023/12/28	Invalid
BTL-FCCP-4-2307T086	R01	Revised Typo.	2024/1/10	Invalid
BTL-FCCP-4-2307T086	R02	Revised Typo.	2024/1/29	Valid

1 GENERAL INFORMATION

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.
 The test location(s) used to collect the test data in this report are:
 No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
 (FCC DN: TW0659)

- SAR01 SAR02

1.2 REFERENCE TEST GUIDANCE

KDB680106 D01 RF Exposure Wireless Charging Apps v03

2 TEST RESULTS

2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 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
1500-100000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposures				
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
1500-100000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.

The emissions should be within the limits at 300kHz in Table 1 of 1.1310 (use the 300kHz limits for 150kHz: 614V/m, 1.63A/m).

For KDB680106 D01:

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2 MEASUREMENT DATA

Electric Field Emissions:

Test Position(0 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	181.5	614
Back	261.5	614
Left	249.7	614
Right	237.1	614
Top	211.9	614
Bottom	255.4	614

Test Position(2 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	112.6	614
Back	137.4	614
Left	139.1	614
Right	127.5	614
Top	118.9	614
Bottom	131.5	614

Test Position(4 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	86.45	614
Back	95.19	614
Left	102.1	614
Right	90.33	614
Top	96.34	614
Bottom	100.2	614

Test Position(6 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	70.56	614
Back	72.26	614
Left	76.72	614
Right	73.15	614
Top	73.55	614
Bottom	77.85	614

Test Position(8 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	59.84	614
Back	59.03	614
Left	61.12	614
Right	58.27	614
Top	59.21	614
Bottom	62.74	614

Test Position(10 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	50.41	614
Back	47.83	614
Left	50.17	614
Right	49.02	614
Top	51.13	614
Bottom	52.79	614

Test Position(12 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	44.52	614
Back	42.64	614
Left	41.62	614
Right	41.05	614
Top	42.74	614
Bottom	43.83	614

Test Position(14 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	39.05	614
Back	36.40	614
Left	36.15	614
Right	35.33	614
Top	37.37	614
Bottom	38.84	614

Test Position(15 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	37.36	614
Back	33.86	614
Left	33.92	614
Right	32.93	614
Top	34.28	614
Bottom	36.19	614

Note:The maximum Probe Measure Results of this EUT is 261.5 V/m, less than 307 V/m(614 *50%).

Magnetic Field Emissions:

Test Position(0 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.56	1.63
Back	0.52	1.63
Left	0.58	1.63
Right	0.51	1.63
Top	0.52	1.63
Bottom	0.62	1.63

Test Position(2 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.56	1.63
Back	0.50	1.63
Left	0.53	1.63
Right	0.49	1.63
Top	0.50	1.63
Bottom	0.60	1.63

Test Position(4 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.54	1.63
Back	0.48	1.63
Left	0.49	1.63
Right	0.47	1.63
Top	0.48	1.63
Bottom	0.57	1.63

Test Position(6 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.52	1.63
Back	0.46	1.63
Left	0.48	1.63
Right	0.45	1.63
Top	0.47	1.63
Bottom	0.55	1.63

Test Position(8 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.49	1.63
Back	0.45	1.63
Left	0.46	1.63
Right	0.44	1.63
Top	0.46	1.63
Bottom	0.52	1.63

Test Position(10 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.46	1.63
Back	0.43	1.63
Left	0.44	1.63
Right	0.42	1.63
Top	0.44	1.63
Bottom	0.49	1.63

Test Position(12 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.45	1.63
Back	0.41	1.63
Left	0.42	1.63
Right	0.41	1.63
Top	0.42	1.63
Bottom	0.45	1.63

Test Position(14 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.42	1.63
Back	0.40	1.63
Left	0.40	1.63
Right	0.40	1.63
Top	0.41	1.63
Bottom	0.43	1.63

Test Position(15 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.41	1.63
Back	0.39	1.63
Left	0.39	1.63
Right	0.39	1.63
Top	0.40	1.63
Bottom	0.41	1.63

Note: The maximum Probe Measure Results of this EUT is 0.62 A/m, less than 0.815 V/m(1.63*50%).

3 LIST OF MEASURING EQUIPMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Readout Unit	Wavecontrol	SMP2	19SN1139	2023/1/11	2024/1/10
2	E-Field Probe	Wavecontrol	WP400	19WP100578	2022/3/31	2025/3/30

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

4 EUT TEST PHOTO

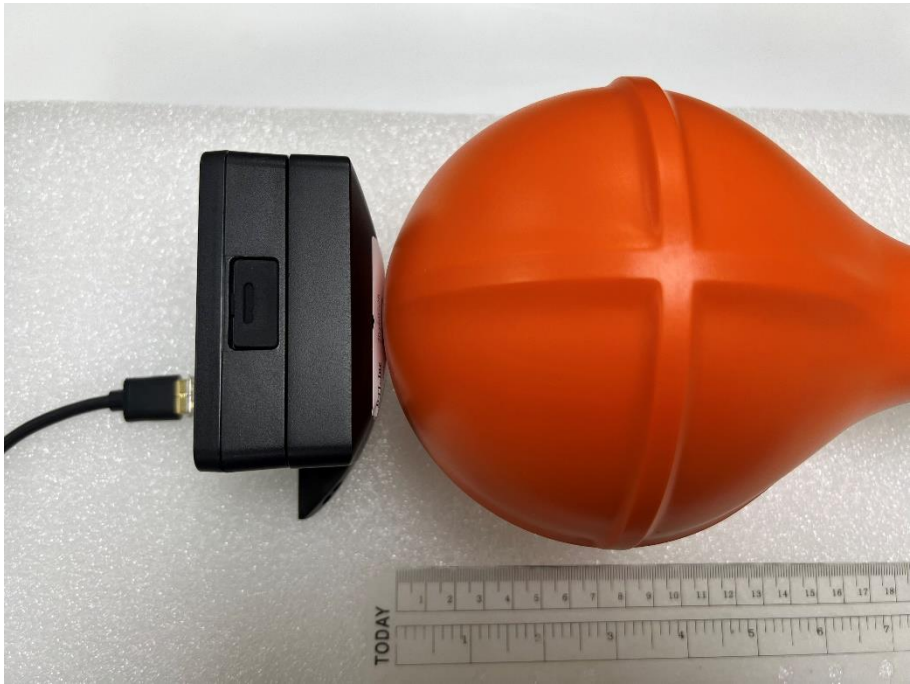
Front Side (0 cm)



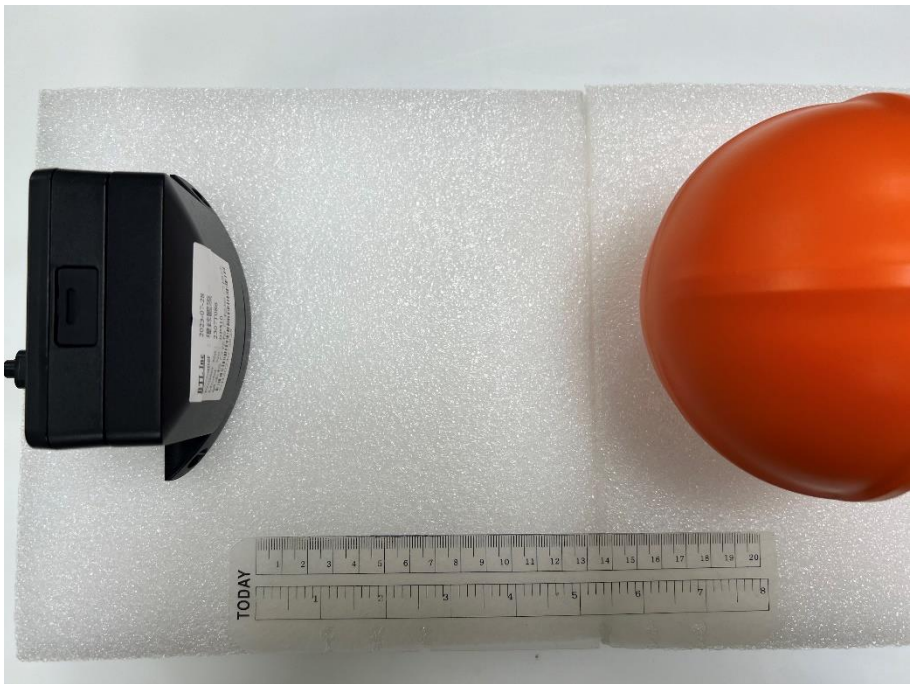
Front Side (15 cm)



Back Side (0 cm)



Back Side (15 cm)



Left Side (0 cm)



Left Side (15 cm)



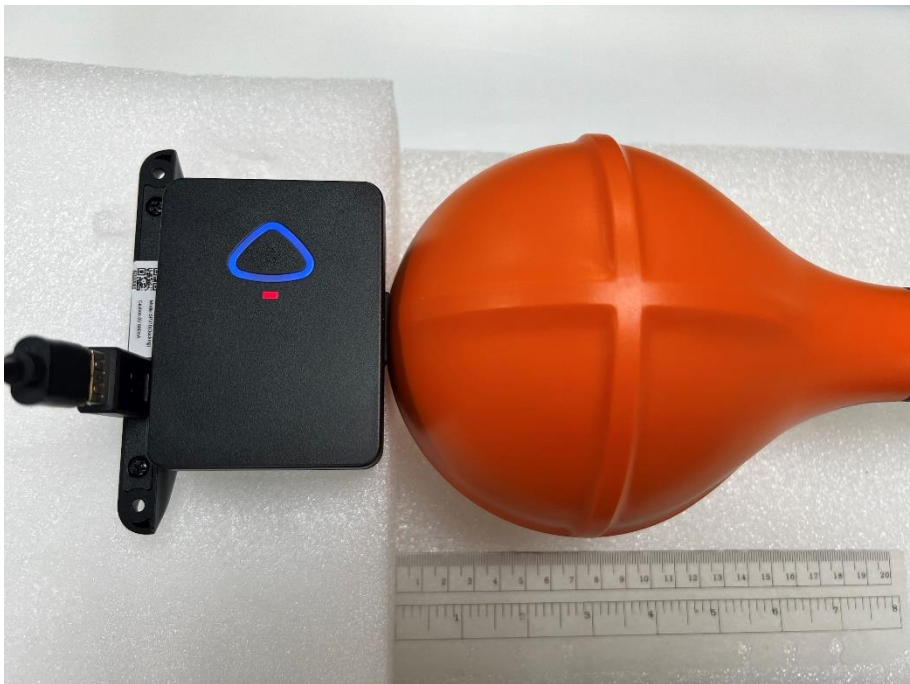
Right Side (0 cm)



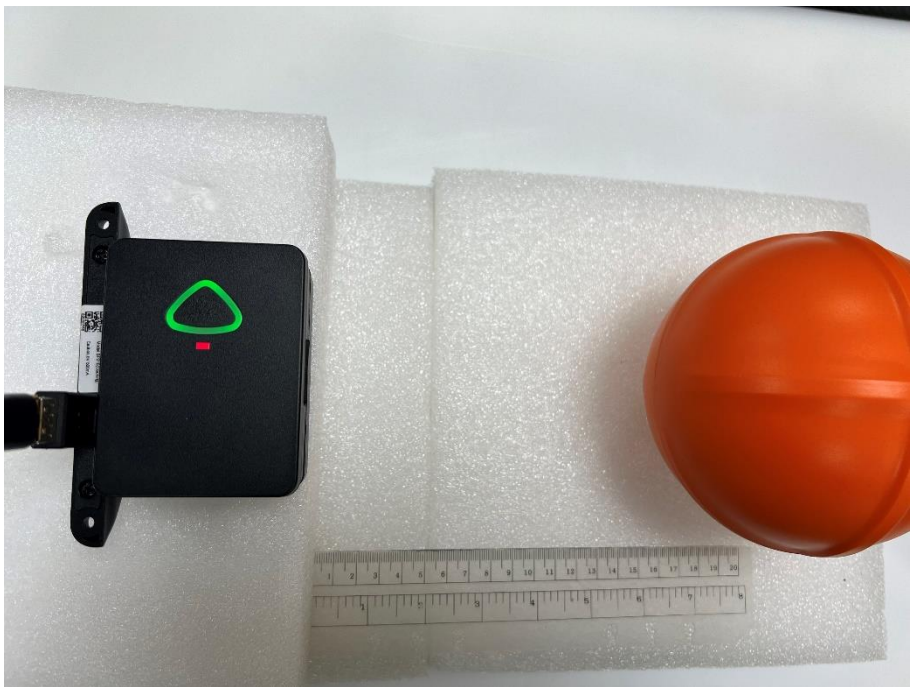
Right Side (15 cm)



Top Side (0 cm)



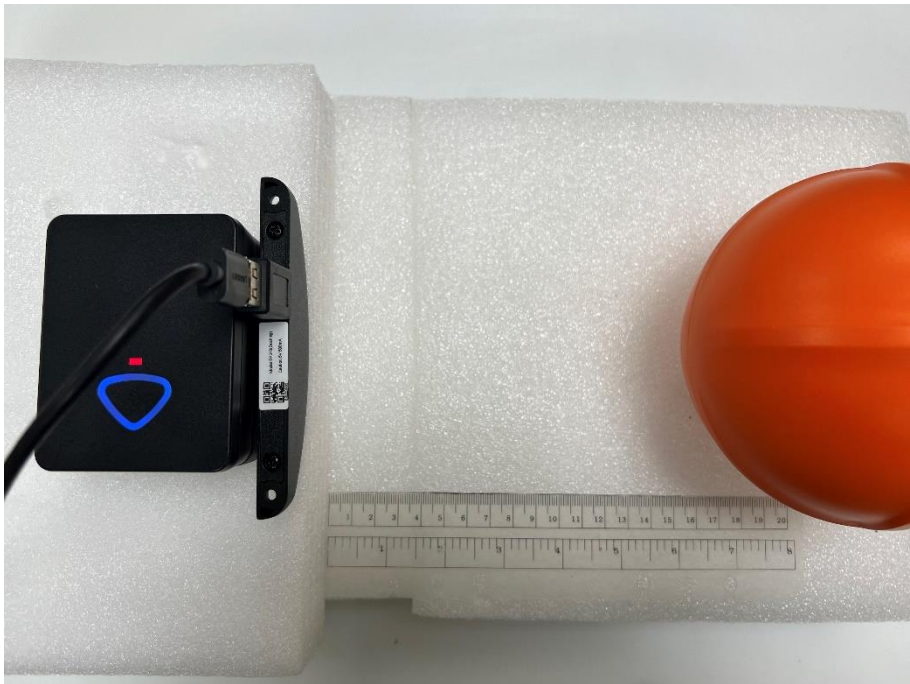
Top Side (15 cm)



Bottom Side (0 cm)



Bottom Side (15 cm)



End of Test Report