

Report Seal



RF Exposure Evaluation Report

Product HOVER-1 - H1 HOVERBOARD

Trade mark **HOVER-1**

Model/Type reference : Refer to section 4.2

Serial Number : N/A

Report Number : EED32Q80105302

FCC ID 2AANZHYH1 Date of Issue : Feb. 22, 2024

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 1.1310

47 CFR Part 2.1091(mobile devices) 47 CFR Part 2.1093(portable devices) KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result PASS

Prepared for:

DGL Group, Ltd. 2045 Lincoln Highway, 3rd floor, Edison, NJ 08817

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

> TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Firezer. Lo mark. chen. Compiled by: Reviewed by: Mark Chen Frazer Li Feb. 22, 2024 Date: Aaron Ma

Check No :8914230124

www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com Hotline:400-6788-333









Report No.: EED32Q80105302

2 Version

Page 2 of 7

Version No.	Date	Description			
00	Feb. 22, 2024	Original			
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Report No.: EED32Q80105302

Page 3 of 7

Contents

							Page
1 COVER PAG	3E	•••••	•••••	•••••	•••••	•••••	••••••
2 VERSION	•••••		•••••	•••••	•••••	•••••	
3 CONTENTS				•••••		•••••	
4 GENERAL I	NFORMATION.	•••••		•••••	•••••	•••••	
4.2 GENERAL 4.3 PRODUCT 4.4 TEST LOG 4.5 DEVIATIO 4.6 ABNORM	NFORMATION DESCRIPTION OF SPECIFICATION SCATION DN FROM STANDA ALITIES FROM STANDANFORMATION REQ	EUTsubjective tords	THIS STANDARI)			
5 SAR EVALU	IATION	•••••		•••••		•••••	
5.1 RF Expo	SURE COMPLIANC	E REQUIREMEN	NT				()
	nits St Procedure						
	T RF Exposure						



Report No.: EED32Q80105302 Page 4 of 7

General Information

4.1 Client Information

Applicant:	DGL Group, Ltd.	
Address of Applicant:	2045 Lincoln Highway, 3rd floor, Edison, NJ 08817	(3)
Manufacturer:	DGL Group, Ltd.	(67)
Address of Manufacturer:	2045 Lincoln Highway, 3rd floor, Edison, NJ 08817	

4.2 General Description of EUT

Product Name:	HOVER-1 – H1 HOVERBOAR	D			
Model No.(EUT):	HY-H1-BLK-M,HY-EU-H1,HY-I	HY-H1,HY-H1-BLK,HY-H1-RED,HY-H1-BLU,HY-H1-WHT,HY-H1-IRD,HY-H1-XXX, HY-H1-BLK-M,HY-EU-H1,HY-EU-H1-BLK,HY-EU-H1-IRD,HY-EU-H1-XXX,HY-EU- UK-H1,HY-EU-UK-H1-BLK,HY-EU-UK-H1-IRD,HY-EU-UK-H1-XXX			
Test Model No.:	HY-H1	-0-			
Trade Mark:	HOVER-1		(-11)		

Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz				
Modulation Type:	GFSK, π/4DQPSK				
Test Software:	FCC_assist (manufacturer declare)				
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)				
Antenna Type:	PCB Antenna		405		
Antenna Gain:	1.50dBi				
Power Supply:	Adapter:	Model:FY0634201500 Input:100-240V~50/60Hz,1.8A Output:DC 42V,1.5A			
	Battery:	DC 36V			
Test Voltage:	DC 36V				
Sample Received Date:	Jan. 23, 2024				
Sample tested Date:	Jan. 23, 2024	to Feb. 05, 2024	(3)		

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.:HY-H1,HY-H1-BLK,HY-H1-RED,HY-H1-BLU,HY-H1-WHT,HY-H1-IRD, HY-H1-XXX,HY-H1-BLK-M,HY-EU-H1,HY-EU-H1-BLK,HY-EU-H1-IRD, HY-EU-H1-XXX,HY-EU-UK-H1,HY-EU-UK-H1-BLK,HY-EU-UK-H1-IRD, HY-EU-UK-H1-XXX

Only the model HY-H1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name, colour and sales regions.















4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

4.7 Other Information Requested by the Customer







5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

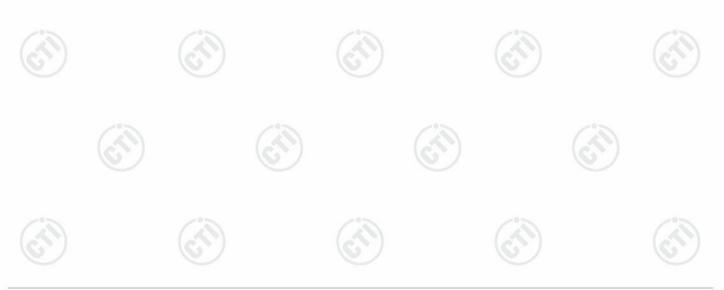
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.







5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For Bluetooth Classic:

Frequency	Max. Conducted Output	Antenna	ERP	ERP	Limit	Result
(MHz)	power	Gain	(dBm)	(mW)	(mW)	(0)
	(dBm)	(dBi)				
2480	1.56	1.50	0.91	1.2331	≤2.7172	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) 95.23;
- $4ERP(mW) = 10^{(ERP (dBm)/10)};$
- ⑤The estimation distance is 0.5cm;
- ©The test data please refer to the report of EED32Q80105301 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***

