

Report Seal

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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

Test Standards : 47 CFR Part 1.1307 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:

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Version No.	Date		Description	
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4 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 HOVERBOA	HOVER-1 – H1 HOVERBOARD				
Model No.(EUT):	HY-H1-BLK-M,HY-EU-H1,HY	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					

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~24	2402MHz~2480MHz					
Modulation Type:	GFSK, π/4D0	GFSK, π/4DQPSK					
Test Software:	FCC_assist (FCC_assist (manufacturer declare)					
EUT Power Grade:	Default (Pow selected)	Default (Power level is built-in set parameters and cannot be changed and selected)					
Antenna Type:	PCB Antenna						
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)				

Remark

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 $\S 1.1307(b)(3)(i)(B)$, 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

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

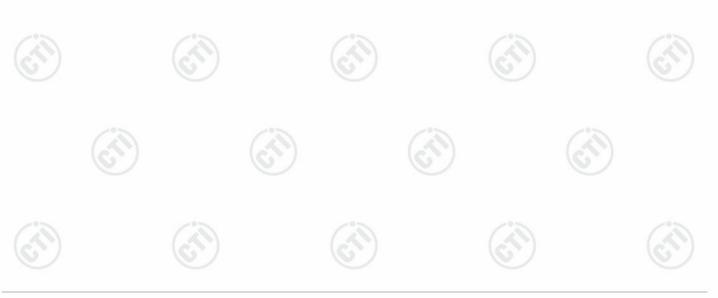
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

1 of Blackooth Glacolor						
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 ***

