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RF Exposure Evaluation Report

Product : Simple remote

Trade mark : E.shine Systems Limited

Model/Type reference: See section 5.2

Serial Number : N/A

Report Number : EED32Q81904402 FCC ID : 2BMT4-RDPRO Date of Issue : Apr. 29, 2025

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1093

KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

E.shine Systems Limited

9th-10th floors, Building 3, No.128 Shajing Shangnan East Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China 518125

Prepared by:

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Check No.: 8656211124

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1 Version

Version No.	Date	Description		
00	Apr. 29, 2025	Original		

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3 General Information

3.1 Client Information

Applicant:	E.shine Systems Limited	
Address of Applicant:	9th-10th floors, Building 3, No.128 Shajing Shangnan East Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China 5181	
Manufacturer:	E.shine Systems Limited	
Address of Manufacturer:	9th-10th floors, Building 3, No.128 Shajing Shangnan East Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China 518125	
Factory:	E.shine Systems Limited	
Address of Factory:	9th-10th floors, Building 3, No.128 Shajing Shangnan East Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China 518125	

3.2 General Description of EUT

Product Name:	Simple remote		
Model No.:	RDPRO1500, RDPRO1000, RDPRO750, RDPRO300, Rouge Ultimate,		
	Helsi Max, Solace 1500, Refine 900, Kala Titan, Rouge Max,		
	Helsi Pro, Solace 1000, Refine 600, Kala Duo Pro, Rouge Pro,		
	Helsi Plus, Refine 360, Solace 750, Kala Apex, Rouge Tabletop,		
	Helsi Mini, Solace 300, Refine 180, Kala Core		
Test Model No.:	RDPRO1500		
Trade mark:	E.shine Systems Limited		

3.3 Product Specification subjective to this standard

Frequency Range:	2420MHz~2	2420MHz~2460MHz		
Modulation Type:	GFSK	GFSK		
Test Power Grade:	Default	Default		
Test Software of EUT:	N/A			
Antenna Type:	PCB Antenna			
Antenna Gain:	-1.96dBi			
Power Supply:	Battery:	DC 3.7V		
Sample Received Date:	Mar. 13, 2025			
Sample tested Date:	Mar. 13, 2025 to Mar. 25, 2025			

Remark:

Model No.: RDPRO1500, RDPRO1000, RDPRO750, RDPRO300, Rouge Ultimate, Helsi Max, Solace 1500, Refine 900, Kala Titan, Rouge Max, Helsi Pro, Solace 1000, Refine 600, Kala Duo Pro, Rouge Pro, Helsi Plus, Refine 360, Solace 750, Kala Apex, Rouge Tabletop, Helsi Mini, Solace 300, Refine 180, Kala Core Only the model RDPRO1500 was tested, They have the same electrical, PCB and layout and internal wiring were identical for the above models, only the model name are difference.

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3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 Test Procedure

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

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4.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2440	0.5	-5.22	-1.96	-9.33	0.117	2.753	0.042	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 EED32Q81904401 and only the worst case data was recorded in the report.

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Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

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

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***