

FCC RF Exposure Report

For

Flexfire LEDs, Inc.

3554 Business Park Dr. Suite F, Costa Mesa, CA 92626

Model: LEO-PRO-RCVR

Report Number: WSCT-ANAB-R&E251100085A

Report Date: 08 January 2026

FCC ID: 2BDBM-ES-D

Prepared By:

World Standardization Certification & Testing Group
(Shenzhen) Co., Ltd.

Building A-B, Baoli'an Industrial Park, No. 58 and
60, Tangtuo Avenue, Shiyan Street, Bao'an District,
Shenzhen City, Guangdong Province, China

Tel: +86-755-26996192

Fax: +86-755-86376605

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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Release	08 January 2026	Li Huaibi

1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 EUT Information

Device Information:	
Product Type:	Smart Home Controller
Model:	LEO-PRO-RCVR
Trade Name:	N/A
Device Type:	Single fixed
Exposure Category:	uncontrolled environment / general population
Production Unit or Identical Prototype:	Production Unit
Antenna Type :	Copper antenna
Antenna Gain:	2.5dBi.
Modulation:	GFSK
Operation Frequency:	2478MHz
Operating Voltage:	OUTPUT: 3A x 5CH Max: 15A INPUT:12V-24VDC

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2 Testing laboratory

Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Test Location	Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyao Street, Bao'an District, Shenzhen City, Guangdong Province, China
Telephone	+86-755-26996192
Fax	+86-755-86376605

3 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

China	CNAS (Registration Number: L3732)
USA	ANAB (Certificate Number: AT-3951)
Canada	ISED (CAB identifier: CN0111)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

4 Applicant and Manufacturer

Applicant/Client Name:	Flexfire LEDs, Inc.
Applicant Address:	3554 Business Park Dr. Suite F, Costa Mesa, CA 92626
Manufacturer Name:	Flexfire LEDs, Inc.
Manufacturer Address:	3554 Business Park Dr. Suite F, Costa Mesa, CA 92626

5 Test standard/s:

No.	Identity	Document Title
1	47 CFR Part 1.1307	Actions that may have a significant environmental effect
2	47 CFR Part 15C	Intentional Radiators

6 Test Data

According to § 1.1307(b)(3)(i):

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

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

d = the separation distance (cm);

Since the product is a stationary RF source, test distance greater than 20cm, Pth (mW)=3060

Built-in Wi-Fi and Bluetooth Module

2.4GWIFI				
Mode	Channel	Freq.(MHz)	EIPR Power(dBm)	Turn up
802.11b(DSSS)	1	2412	19.91	20.00
802.11b(DSSS)	6	2437	19.80	20.00
802.11b(DSSS)	11	2462	19.63	20.00
802.11b(DSSS)	1	2412	19.62	20.00
802.11b(CCK)	6	2437	19.38	19.50
802.11b(CCK)	11	2462	19.70	20.00
802.11g	1	2412	21.34	21.50
802.11g	6	2437	21.80	22.00
802.11g	11	2462	20.97	21.00
802.11n(HT20)	1	2412	20.79	21.00
802.11n(HT20)	6	2437	20.24	20.50
802.11n(HT20)	11	2462	20.67	21.00

MAX EIPR=22.00dBm≈158.49mw<3060

Mode	Date Rate	Channel	Freq.(MHz)	EIPR Power(dBm)	Turn up
BLE	1Mbps	0	2402	7.16	7.50
BLE	1Mbps	19	2440	6.94	7.00
BLE	1Mbps	39	2480	7.53	8.00

MAX EIPR=8.00dBm≈6.31mw<3060

EUT conduction power

Test channel	Maximum Conducted Output Power (dBm)	Turn up
2478MHz	5.38	5.5

5.5dBm≈3.55mw<3060

7 Conclusion

The test result is passed.

--END OF REPORT--