



Solutions

FCC RF EXPOSURE REPORT

For

Wireless Controller

MODEL NUMBER: LED-CONTROL-MODULE-EASYLUX-12V-1

**ADDITIONAL MODEL NUMBER: LED-CONTROL-MODULE-EASYLUX-24V-1,
Mec Driver Sensor Module 12V, Mec Driver Sensor Module 24V**

PROJECT NUMBER: 4791074448

REPORT NUMBER: 4791074448-3

FCC ID: 2BD9AS05051-4051

ISSUE DATE: Jan. 02, 2024

Prepared for

L&S Lighting Equipment (Shanghai) Co., Ltd.

Prepared by

**UL-CCIC COMPANY LIMITED
No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China
Tel: +86 512-6808 6400
Fax: +86 512-6808 4099
Website: www.ul.com**

Form-ULID-008536-13 V3.0

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	01/02/2024	Initial Issue	

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....	4
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION.....	6
4. MEASUREMENT UNCERTAINTY	7
5. REQUIREMENT	8

1. ATTESTATION OF TEST RESULTS

Applicant Information	
Company Name:	L&S Lighting Equipment (Shanghai) Co., Ltd.
Address:	Building No.1, Lane 255 Longpan Road, Malu Town, Jiading District, Shanghai, China
Manufacturer Information	
Company Name:	L&S Lighting Equipment (Shanghai) Co., Ltd.
Address:	Building No.1, Lane 255 Longpan Road, Malu Town, Jiading District, Shanghai, China
Factory Information-1	
Company Name:	L&S Lighting Equipment (Shanghai) Co., Ltd.
Address:	Building No.1, Lane 255, Longpan Road, Malu Town, Jiading District, Shanghai, 201801, China
Factory Information-2	
Company Name:	Ningbo Technic Lighting Co., Ltd.
Address:	No.8, Caiyuan Road, Lizhou Street, Yuyao City, Zhejiang Province, China
EUT Description	
Product Name:	Wireless Controller
Model Number:	LED-CONTROL-MODULE-EASYLUX-12V-1
Additional Model Number:	LED-CONTROL-MODULE-EASYLUX-24V-1, Mec Driver Sensor Module 12V, Mec Driver Sensor Module 24V
Model Difference:	The four models are identical except the input voltage, the input voltage of model LED-CONTROL-MODULE-EASYLUX-12V-1 & Mec Driver Sensor Module 12V is DC 12V, the input voltage of model LED-CONTROL-MODULE-EASYLUX-24V-1 & Mec Driver Sensor Module 24V is DC 24V.
Sample Number:	6720020
Data of Receipt Sample:	Dec. 05, 2023
Date Tested:	Dec. 05, 2023~ Jan. 02, 2024

APPLICABLE STANDARDS		TEST RESULTS
STANDARD		
FCC Guidelines for Human Exposure IEEE C95.1		Complies

Prepared By:

Tom Tang

Tom Tang

Reviewed By:

Kevin Shen

Kevin Shen

Authorized By:

Leon WuLeon Wu

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p>
---------------------------	--

Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China.

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Output Power to Antenna	1.3 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

$$S = PG/(4\pi R^2)$$

where: S = power density (in appropriate units, e.g mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

CALCULATED RESULTS

Frequency (MHz)	Output Power		Power Density (mW/cm ²)	Limit (mW/cm ²)	Verdict
	(dBm)	(mW)			
2440	-2.65	0.54	0.00011	1	Complies

Note:

1. The output power is calculated based on field strength 92.55 dBuV/m at 3 m transmit power(eirp) of the device using free space formula.
2. The minimum separation distance of the device is greater than 20 cm.
3. All the channels had been tested, but only the worst data was recorded in the report.
4. The calculated result for the sample received is <Pass> according to < 47 CFR FCC Part 2 Subpart J, section 2.1091> when <Accuracy Method> decision rule is applied.

END OF REPORT