



### FCC RF EXPOSURE REPORT

For

**Motion Sensor** 

**MODEL NUMBER: SSMA10BP4** 

FCC ID: 2AB2Q-SSMA10BP4

REPORT NUMBER: 4790976263.2-2

ISSUE DATE: October 23, 2023

Prepared for

LEEDARSON LIGHTING CO., LTD.
Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

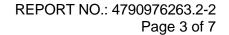
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# **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	October 23, 2023	Initial Issue	





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# 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingda Road, Xingtai Industrial Zone, Changtai County,

Zhangzhou, Fujian, China

**Manufacturer Information** 

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingda Road, Xingtai Industrial Zone, Changtai County,

Zhangzhou, Fujian, China

**EUT Information** 

EUT Name: Motion Sensor
Model: SSMA10BP4
Sample Received Date: August 22, 2023

Sample Status: Normal Sample ID: 6378386

Date of Tested: August 22, 2023~ October 20, 2023

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
FCC 47CFR§2.1091	PASS		

Prepared By: Checked By:

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

## 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Delcaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
Certificate	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.



### 4. REQUIREMENT

#### **LIMIT AND CALCULATION METHOD**

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. Limits for General Population/Uncontrolled Exposure

### **RF EXPOSURE LIMIT**

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	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 <sup>2</sup> )*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

#### **CALCULATION METHOD**

S=PG/4πR<sup>2</sup>

Where:

S=power density

P=power input to antenna

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



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# **CALCULATED RESULTS**

FSK (Worst case)					
Operating	Max. Tune up Power	Antenna Gain		Power density	Limit
Mode	(dBm)	(dBi)	(num)	(mW/ cm <sup>2</sup> )	
FSK	1	-1.77	0.67	0.00017	0.6

Note: the calculated distance is 20 cm.

The max EIRP is 93.79 dB $\mu$ V/m at 3m transmit power(eirp) Max EIRP= 93.79 dB $\mu$ V/m = 93.79-95.2 dBm = -1.41 dBm

Max Conducted power=-1.41-(-1.77) = 0.36 dBm So, the maximum tune up power is 1 dBm.

**END OF REPORT**