

RF Exposure Evaluation Report

Equipment : Spotlight Cam Wired

Brand Name : RING

Model No. : Spotlight Cam Wired

FCC ID : 2AEUPBHARC001

Standard : 47 CFR Part 2.1091

Applicant : Bot Home Automation, Inc.

1523 26th St, Santa Monica, CA 90404, USA

Manufacturer : Chicony Electronics (Dong Guan) Co.,Ltd.

San Zhong Guan Li Qu, Qingxi Town, Dongguan City

Guangdong 523651 China

The product sample received on Jun. 07, 2017 and completely tested on Jun. 27, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit.

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Jordan Hsiao

SPORTON INTERNATIONAL INC.

lac-MRA



Report No.: FA760125

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: 2AEUPBHARC001 Page No. : 1 of 6

Report Version : Rev. 01

Issued Date : Jul. 06, 2017



RF Exposure Evaluation Report

TABLE OF CONTENTS

Report No.: FA760125

1	GENERAL DESCRIPTION	4
	EUT General Information	
	Testing Location	
2	MAXIMUM PERMISSIBLE EXPOSURE	5
	Limit of Maximum Permissible Exposure	
2.2	MPE Calculation Method	
	Calculated Result and Limit	6

Page No.

Issued Date

Report Version

: 2 of 6

: Rev. 01

: Jul. 06, 2017



REVISION HISTORY

REPORT NO. VERSION		DESCRIPTION	ISSUED DATE		
FA760125 Rev. 01		Initial issue of report	Jul. 06, 2017		

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TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: 2AEUPBHARC001 Page No. : 3 of 6
Report Version : Rev. 01

Issued Date

: Jul. 06, 2017

Report No. : FA760125



1 General Description

1.1 EUT General Information

RF General Information					
Evaluation Mode	Range Frequency		Modulation Type		
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		

1.2 Testing Location

	Testing Location							
\boxtimes	HWA YA	ADD	:	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)				
		TEL	:	886-3-327-3456 TEL : 886-3-327-3456				
	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)				
		TEL	:	886-3-656-9065 TEL: 886-3-656-9065				

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TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: 2AEUPBHARC001 Page No. : 4 of 6
Report Version : Rev. 01

Issued Date : Jul. 06, 2017

Report No.: FA760125



2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric 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)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842 / f	4.89 / f	(900 / f ²)*	6	
30-300	61.4	0.163	1.0	6	
300-1500	-	-	F/300	6	
1500-100,000	-	-	5	6	

(B) 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/ 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 ²)*	30	
30-300	27.5	0.073	0.2	30	
300-1500	-	-	F/1500	30	
1500-100,000	-	-	1.0	30	

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

E (V/m) =
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: 2AEUPBHARC001 Page No. : 5 of 6

Report Version : Rev. 01

Issued Date : Jul. 06, 2017

Report No.: FA760125



RF Exposure Evaluation Report

2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;G1D	1.64	14.67	16.31	0.04276	20	0.00851	1.00000
2.4G;D1D	1.64	15.58	17.22	0.05272	20	0.01049	1.00000

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TEL: 886-3-327-3456 FAX: 886-3-327-0973 FCC ID: 2AEUPBHARC001 Page No. : 6 of 6
Report Version : Rev. 01

: Jul. 06, 2017

Issued Date

Report No.: FA760125