





Radio Exposure Evaluation Report

FCC ID : 2AEUPBHASC051

Equipment : Stick Up Cam Wired

Brand Name : Ring

Model Name : Stick Up Cam Wired

Applicant : Ring, 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

Standard : 47 CFR Part 2.1091

The product was received on Jun. 01, 2018, and testing was started from Jun. 17, 2018 and completed on Jul. 25, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-327-3456 Page Number : 1 of 6

FAX: 886-3-327-0973 Issued Date : Aug. 20, 2018

Report Template No.: HE1-A1 Ver2.0 Report Version : 01

Table of Contents

HISTO	RY OF THIS TEST REPORT	.3
	GENERAL DESCRIPTION	
	EUT General Information	
	Testing Location	
2	MAXIMUM PERMISSIBLE EXPOSURE	5
	Limit of Maximum Permissible Exposure	
	MPE Calculation Method	
	Calculated Result and Limit	

Photographs of EUT V01

TEL: 886-3-327-3456 Page Number : 2 of 6

Report Template No.: HE1-A1 Ver2.0 Report Version : 01



History of this test report

Report No.: FA852814

Report No.	Version	Description	Issued Date
FA852814	01	Initial issue of report	Aug. 20, 2018

Reviewed by: Sam Tsai

Report Producer: Debby Hung

TEL: 886-3-327-3456 Page Number : 3 of 6

Report Template No.: HE1-A1 Ver2.0 FCC ID: 2AEUPBHASC051



1 General Description

1.1 EUT General Information

		RF General	Information
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
5GHz WLAN	5150-5250 5725-5850	5180-5240 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

Report No.: FA852814

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									
				Test site Designation	n No. TW1190 with FCC.					
	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St.,	Zhubei City, Hsinchu County, Taiwan (R.O.C.)					
	TEL : 886-3-656-9065									
	Test site Designation No. TW0006 with FCC.									

TEL: 886-3-327-3456 Page Number : 4 of 6

Report Template No.: HE1-A1 Ver2.0 Report Version : 01



Maximum Permissible Exposure 2

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	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	824/f 2.19/f		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: $Pd (W/m^2) = \frac{E^2}{377}$

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

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

TEL: 886-3-327-3456 : 5 of 6 Page Number

FAX: 886-3-327-0973 Issued Date : Aug. 20, 2018

Report Template No.: HE1-A1 Ver2.0 Report Version : 01



2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Wi-Fi 2.4G Function:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;G1D	0.94	19.75	20.69	0.50	21.19	0.13152	20	0.02617	1.00000
2.4G;D1D	0.94	18.63	19.57	0.50	20.07	0.10162	20	0.02022	1.00000

Wi-Fi BT Function:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;BT-LE	0.69	6.51	7.20	0.50	7.70	0.00589	20	0.00117	1.00000

Wi-Fi 5G Function:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
5.2G;D1D	2.77	17.44	20.21	0.50	20.71	0.11776	20	0.02343	1.00000
5.8G;D1D	3.12	16.86	19.98	0.50	20.48	0.11169	20	0.02222	1.00000

——THE END——

TEL: 886-3-327-3456 Page Number : 6 of 6

Report Template No.: HE1-A1 Ver2.0 Report Version : 01