



Report No.: FA852814-03



Radio Exposure Evaluation Report

FCC ID : 2AEUPBHASC052 Equipment : Stick Up Cam Elite

Brand Name : Ring LLC

Model Name : Stick Up Cam Wired

Applicant Ring LLC

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

Manufacturer : Chicony Electronics Co.,Ltd.

No.69, Sec. 2, Guangfu Rd., Sanchong Dist. New Taipei

City 241 Taiwan

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 Sep. 24, 2019. 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

FCC ID: 2AEUPBHASC052

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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FAX: 886-3-327-0973 Issued Date: Oct. 16, 2019

Report Template No.: HE1-A1 Ver2.0 Report Version : 02

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Photographs of EUT V01

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History of this test report

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Report No.	Version	Description	Issued Date
FA852814-03	01	Initial issue of report	Oct. 04, 2019
FA852814-03	02	The Manufacturer information was update This report is the latest version replacing for the report issued on Oct. 04, 2019	Oct. 16, 2019

Reviewed by: Sam Tsai

Report Producer: Debby Hung

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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)								

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1.2 Testing Location

	Testing Location										
HWA YA ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)											
	TEL : 886-3-327-3456										
		Test site Designation 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.									

1.3 Table for Existing Change

This product is an extension of original one reported under Sporton project number: FA852814-02 Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Two PoE Adapter and Ethernet Cable was added.	N/A

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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)		
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

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(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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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

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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——

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