RF Exposure Evaluation Report

Equipment	:	**Lyric™ C2 Wi-Fi® Camera**
Brand Name	:	**Honeywell**
Model No.	:	**LYRICC2**
FCC ID	:	**CFS8DLLYRICC2**
Standard	:	**47 CFR Part 2.1091**
Applicant	:	**Honeywell International Inc.** 2 Corporate Center Drive, Melville New York 11747 United States
Manufacturer	:	**EDIMAX TECHNOLOGY CO., LTD.** No.278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan

The product sample received on May 23, 2017 and completely tested on Jun. 12, 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 / Manager

Testing Laboratory
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA752344	Rev. 01	Initial issue of report	Jul. 12, 2017

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) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM
Bluetooth	2400-2483.5	2402-2480	BR / EDR: FHSS (GFSK / π/4-DQPSK / 8DPSK) LE: DSSS (GFSK)

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	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

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

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	5.50	20.81	26.31	0.42756	20	0.08506	1.00000
2.4G;D1D	5.50	22.96	28.46	0.70146	20	0.13955	1.00000
5.2G;D1D	3.01	21.24	24.25	0.26607	20	0.05293	1.00000
5.8G;D1D	3.01	20.01	23.02	0.20045	20	0.03988	1.00000
2.4G;BT-LE	2.00	7.16	9.16	0.00824	20	0.00164	1.00000
2.4G;BT-BR	2.00	7.57	9.57	0.00906	20	0.00180	1.00000
2.4G;BT-EDR	2.00	6.62	8.62	0.00728	20	0.00145	1.00000