RF Exposure Evaluation Declaration

Product Name : Flying Camara

Model No. : Cicada

FCC ID: **2AEKJ-CICADA**

Applicant : Elanview Technology Co.,Ltd.
Address : Room 605, Building F, No 7001,Zhongchun Road,Minhang District, Shanghai,P.R.China.

Report Typle	:	Original test report
Report Number	:	UL44220150408FCC002-2
Report Version	:	V1.0
Date of Report	:	18-05-2015
Date of Test	:	09-04-2015~18-05-2015

RF Exposure Evaluation Declaration

Issued Date : 18-05-2015
Report No. : UL44220150408FCC002-2

Product Name :	Flying Camara
Model No. :	Cicada
Applicant :	Elanview Technology Co.,Ltd.
Address :	Room 605, Building F, No 7001,Zhongchun Road,Minhang District, Shanghai,P.R.China.
Manufacturer :	Elanview Technology Co.,Ltd.
Address :	Room 605, Building F, No 7001,Zhongchun Road,Minhang District, Shanghai,P.R.China.
EUT Voltage	Extreme Low:DC 7 V, Nominal:DC 7.4V, Extreme High:DC 8V
Brand Name :	N/A
Applicable Standard :	FCC's Rules (47 C.F.R. § 1.1310 and 2.1091)
	Industry Canada RSS-102 ,Issue 4
Test Result :	Complied
Performed Location :	Unilab (Shanghai) Co.,Ltd.
	FCC 2.948 register number is 714465
	IC register number is 11025A-1
	No.1350, Lianxi Road, Pudong New District, Shangha, China
	TEL:+86-21-50275125/FAX:+86-21-50277862

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Approved By : Eva wang
(Supervisor: Eva Wang)

1. EUT Description

Product Name:	Flying Camara
Model Name:	Cicada
Hardware Version:	V3.0
Software Version:	V1.0
RF Exposure Environment:	Uncontrolled
WIFI	
Frequency Range:	2400MHz~2483.5MHz
Type of Modulation:	DSSS(BPSK/QPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM) MIMO-OFDM(BPSK/QPSK/16QAM/64QAM)
Channel Number:	11Channels for 802.11b、11g、11n(20M) and 9Channels for 802.11n(40M)
Antenna Type:	Internal
Antenna Peak Gain:	2.0dBi
The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

2. RF Exposure Evaluation

2.1 Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range(MHz)	Electric Filed Strength (V/m)	Magnetic Filed Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)
(A)Limits for Occupation/Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B)Limits for General Occupation/UnControlled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2.Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 22℃and 45％ RH.

2.3.Test Result of RF Exposure Evaluation

This device is evaluated by mobile device with general population/uncontrolled exposure condition

For this device, the calculation is using the most conservative values, and the results are as follows:

Test Mode	Antenna Gain (dBi)	Maximum Output Power (dBm)	Maximum Output Power From Antenna (mW)	Calculated RF Exposure at d = 20cm (mW/cm2)	MPE Limit (mW/cm2)
WLAN 2.4G	2.0	21.19	208.45	0.04	1.00

This device can pass RF exposure limit.