Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE150464

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RF Exposure Evaluation FCC ID: 2AFRF-RCCM

1. Client Information

Applicant : CamFi Limited

Address: Room A1002-1, Venture Building, TsingHua Science Park, No.101

College Road, Tangjiawan, Zhuhai, PRC.

Manufacturer : CamFi Limited

Address: Room A1002-1, Venture Building, TsingHua Science Park, No.101

College Road, Tangjiawan, Zhuhai, PRC.

2. General Description of EUT

EUT Name	:	CamFi Remote Camera Controller				
Models No.		CF-102, CF101, CF103, CF201, LW-100				
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.				
Product Description		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz			
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40):9 channels see note(3)			
		RF Output Power:	802.11b: 9.21 dBm 802.11g: 9.09 dBm 802.11n (HT20): 8.98 dBm 802.11n (HT40): 8.96 dBm			
		Antenna Gain:	0.9 dBi PIFA Antenna			
		Modulation Type:	802.11b: CCK, QPSK, BPSK 802.11g: OFDM 802.11n: OFDM			
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps			
		Transmitter:	802.11n:up to 150Mbps			
Power Supply		DC power by USB cable form Host System. DC power by Li-ion battery.				
Power Rating		DC 5V by USB Cable from PC system. DC 3.7V 1800mAh by Li-ion Battery.				
Connecting I/O Port(S)		Please refer to the User's Manual				

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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2. Calculation:

Test separation	n: 5mm				
11100	A HIV	WiFi Mode	e(802.11b)	- 6	1110
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.21	±0.5	9.354	2.905	3.0
2.437	9.16	±0.5	9.247	2.887	3.0
2.462	9.20	±0.5	9.333	2.929	3.0
	Alle	WiFi Mode	e(802.11g)	- Will:	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.09	±0.5	9.099	2.826	3.0
2.437	9.07	±0.5	9.057	2.828	3.0
2.462	9.05	±0.5	9.016	2.829	3.0
- N	100	WiFi Mode(80	2.11n(HT20))	CHILD	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.95	±0.5	8.810	2.737	3.0
2.437	8.98	±0.5	8.872	2.770	3.0
2.462	8.89	±0.5	8.690	2.727	3.0
1 Aller		WiFi Mode(80	2.11n(HT40))		1 Bir
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	8.93	±0.5	8.770	2.730	3.0
2.437	8.92	±0.5	8.750	2.732	3.0
2.452	8.96	±0.5	8.831	2.766	3.0

So standalone SAR measurements are not required.

----END OF REPORT----