## Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE146024

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# RF Exposure Evaluation FCC ID: 2AGLQ-RUNCAM2

#### 1. Client Information

Applicant : CAMERA2000 LIMITED

Address : Room 16E, B block, World Trade Plaza, Fuhong Road, Fu Tian

District, Shenzhen, China

Manufacturer : CAMERA2000 LIMITED

Address : Room 16E, B block, World Trade Plaza, Fuhong Road, Fu Tian

District, Shenzhen, China

2. General Description of EUT

Z. Genera		Jescription of i	LOT						
<b>EUT Name</b>	V	Camera							
Models No.	5	RunCam2, RunCam2S, RunCam*, SKY*, PZ0420*(* represents 18-digit characters, and each character can be anything ranging from 0 to 9, A to Z, and symbols like "- "or "space" and different product models. And * is targeted at different sales territories, sales regions, sales methods, varied client groups, different market positioning and different product colors, and won't affect the product safety and electromagnetic compatibility)							
Model Difference	8.	All models are identical in the same PCB layout, interior structure and electrical circuits, the only difference is model name for commercial purpose.							
TOBY		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz						
		Number of Channel:	802.11b/g/n(HT20): 11 channels 802.11n(HT40): 7 channels						
Product Description	13	Max Peak Output Power:	802.11b: 9.16 dBm 802.11g: 9.08 dBm 802.11n (HT20): 9.11 dBm 802.11n (HT40): 9.12 dBm						
		Antenna Gain:	0.44 dBi (PCB Antenna)						
	ð	Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM(64QAM, 16QAM, QPSK, BPSK)						
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.							
Power Rating	:								
Connecting		Please refer to the User's Manual							

**Note:** More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

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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 v05r02.

- (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	: 5mm				ALL	
	A WILL	Wi	Fi Mode(802.11b)		0	III
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.12	0.44	±0.5	9.16	2.846	3.0
2.437	9.15	0.44	±0.5	9.23	2.880	3.0
2.462	9.16	0.44	±0.5	9.25	2.902	3.0
MARIE		Wi	Fi Mode(802.11g)	THE STATE OF THE S		Millin
Frequency (GHz)	Power		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.08	0.44	±0.5	9.08	2.820	3.0
2.437	9.04	0.44	±0.5	8.99	2.808	3.0
2.462	9.07	0.44	±0.5	9.06	2.842	3.0
		WiFi	Mode(802.11n(HT2	0))	1105	
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.11	0.44	±0.5	9.14	2.839	3.0
2.437	9.06	0.44	±0.5	9.04	2.821	3.0
2.462	9.02	0.44	±0.5	8.95	2.810	3.0
		WiFi	Mode(802.11n(HT4	0))	CHILDRE	
Frequency (GHz) Conducted Power (dBm)		Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	9.10	0.44	±0.5	9.12	2.839	3.0
2.437	9.12	0.44	±0.5	9.16	2.861	3.0
2.452	9.01	0.44	±0.5	8.93	2.798	3.0

So standalone SAR measurements are not required.