

Report No.: TB-MPE151172

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RF Exposure Evaluation FCC ID: 2AK4WRUNCAM3

1. Client Information

Applicant: RunCam Technology (Shenzhen) Co., Ltd.

Address : Room 16E, Building B, World Trade Plaza, 9 Fuhong Rd, Futian

District, Shenzhen, Guangdong, China

Manufacturer: RunCam Technology (Shenzhen) Co., Ltd.

Address : Room 16E, Building B, World Trade Plaza, 9 Fuhong Rd, Futian

District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	16	: Camera					
Models No.		RunCam3-Pro, RunCam3-Plus, RunCam3-Ultra, RunCam3-Cube, RunCam3+, RunCam4, RunCam4-Pro, RunCam4-Plus, RunCam4-Ultra, RunCam4-Cube, RunCam4+, RunCam5, RunCam5-Pro, RunCam5-Plus, RunCam5-Ultra, RunCam6-Plus, RunCam6-Plus, RunCam6-Ultra, RunCam6-Cube, RunCam6+, RunCam7, RunCam7-Pro, RunCam7-Plus, RunCam7-Ultra, RunCam7-Cube, RunCam7+, RunCam8, RunCam8-Pro, RunCam8-Plus, RunCam8-Plus, RunCam8-Ultra, RunCam9-Plus, RunCam9-Ultra, RunCam9-Cube, RunCam9+, RunCam9-Plus, RunCam9-Ultra, RunCam9-Cube, RunCam9+, RunCam Cube, RunCam Cube*, RunCam*, (* 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 will not					
Model Difference	1	affect the product safety and electromagnetic compatibility) All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.					
Product Description	W.	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): 7 channels see note(3)				
		Max Peak Output Power:	802.11b: 9.25dBm 802.11g: 8.98 dBm 802.11n (HT20): 8.26 dBm 802.11n (HT40): 8.71 dBm				

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Tel: +86 75526509301 Fax: +86 75526509195



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		Antenna Gain: 2 dBi PIFA Antenna		
	5	Modulation Type:	802.11b: DSSS(CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM	
Power Supply	:	DC Voltage Supplied from the Host System.		
		DC Voltage Supply by the Battery.		
Power Rating		DC 5.0 V from the PC by the USB Cable.		
		DC 5.0 V~17.0 V by the External Power Supply.		
		DC 3.8 V~2*480mAh by the Internal Li-Lion Battery.		
Connecting I/O				
Early to the terms of the terms				

Note:

Port(S)

More test information about the EUT please refer to the RF Test Report.



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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 separatio	n: 5mm						
802.11b							
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Thresho d Value	
2.412	9.21	9±0.5	9.5	8.913	2.768	3.0	
2.437	9.25	9±0.5	9.5	8.913	2.783	3.0	
2.462	9.17	9±0.5	9.5	8.913	2.797	3.0	
			802.11g			13	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value	
2.412	8.98	9±0.5	9.5	8.913	2.768	3.0	
2.437	8.88	9±0.5	9.5	8.913	2.783	3.0	
2.462	8.76	9±0.5	9.5	8.913	2.797	3.0	
	3 (THE PARTY OF	802.11n(HT20)				
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Thresho d Value	
2.412	8.17	8±0.5	8.5	7.079	2.199	3.0	
2.437	8.26	8±0.5	8.5	7.079	2.210	3.0	
2.462	8.03	8±0.5	8.5	7.079	2.222	3.0	
11:15			802.11n(HT40)		33	C. II.	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Thresho d Value	
2.422	8.71	9±0.5	9.5	8.913	2.774	3.0	
2.437	8.01	8±0.5	8.5	7.079	2.210	3.0	
2.452	8.24	8±0.5	8.5	7.079	2.217	3.0	

So standalone SAR measurements are not required.

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