



RF EXPOSURE EVALUATION

FCC ID: 2BRYE-AC18

Product Name	:	Action Camera
Model Name	:	AC18
Specification	:	802.11b/g/n20/n40 BLE
Operating frequency	:	2412-2462MHz for 802.11b/g/n20/n40 2402-2480MHz
Number of Channel	:	11 channels for 802.11b/g/n20/n40 40 channels For DTS
Type of Modulation	:	GFSK DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna Type	:	Ceramic antenna
Antenna Gain	:	2.12 dBi
Power supply	:	Input:5V=0.7A Battery: 3.7V,700 mAh 2.59Wh
Hardware Version	:	N/A
Software Version	:	N/A



Standard Requirement

According to § 15.249 and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50\text{mm}$ are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g SAR extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is $\leq 50\text{mm}$ and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2402	1.45	1.45±1	1.757924	5	0.544900	3	BLE_1M
2412	8.97	8.97±0.5	8.851156	5	2.749278	3	11g

According to KDB 447498, The device only support BT and WLAN function, BT and WLAN can't Simultaneous transmission ,and no simultaneous SAR measurement is required.

Signature

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Manager

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