



MAXLAB Testing Co.,Ltd.

Report No.: MK25090059P03-R01RF

## RF TEST REPORT

Report Reference No..... : MK25090059P03-R01RF

FCC ID..... : 2BR28-SPEED30

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Address..... : 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

Applicant's name..... : Shenzhen Haiyida Electronic Commerce Co., Ltd

Address..... : Room 2712, COFCO Ziyun Building, Block 22, Lingzhiyuan Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Test specification..... :

Standard..... : FCC 1.1310

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Test item description..... : Action Camera

Trade Mark..... : N/A

Manufacturer..... : Shenzhen Haiyida Electronic Commerce Co., Ltd

Model/Type reference..... : SPEED 30

Listed Models ..... : N/A

Modulation Type..... : CCK/ DSSS/ OFDM

Operation Frequency..... : From 2412 - 2462MHz

Rating..... : DC 3.7V From Battery or DC 5V by USB port

Result..... : PASS



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## RF EXPOSURE EVALUATION METHOD

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)

### EUT Specification

|                            |                                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency band (Operating) | <input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz<br><input type="checkbox"/> WLAN: 5.150GHz ~ 5.250GHz<br><input type="checkbox"/> WLAN: 5.725GHz ~ 5.850GHz<br><input type="checkbox"/> Others BT:2402-2480MHz   |
| Device category            | <input checked="" type="checkbox"/> Portable (<20cm separation)<br><input type="checkbox"/> Mobile (>20cm separation)<br><input type="checkbox"/> Others                                                                       |
| Exposure classification    | <input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm2)<br><input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm2)                                                            |
| Antenna diversity          | <input checked="" type="checkbox"/> Single antenna<br><input type="checkbox"/> Multiple antennas<br><input type="checkbox"/> Tx diversity<br><input type="checkbox"/> Rx diversity<br><input type="checkbox"/> Tx/Rx diversity |
| Max. output power          | 7.526dBm (0.00566W)                                                                                                                                                                                                            |
| Antenna gain (Max)         | 1.5 dBi                                                                                                                                                                                                                        |
| Evaluation applied         | <input type="checkbox"/> MPE Evaluation<br><input checked="" type="checkbox"/> SAR Evaluation                                                                                                                                  |

## **RF EXPOSURE EVALUATION METHOD**

### **SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz  | 5  | 10 | 15  | 20  | 25  | mm                                      |
|------|----|----|-----|-----|-----|-----------------------------------------|
| 150  | 39 | 77 | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 |                                         |
| 450  | 22 | 45 | 67  | 89  | 112 |                                         |
| 835  | 16 | 33 | 49  | 66  | 82  |                                         |
| 900  | 16 | 32 | 47  | 63  | 79  |                                         |
| 1500 | 12 | 24 | 37  | 49  | 61  |                                         |
| 1900 | 11 | 22 | 33  | 44  | 54  |                                         |
| 2450 | 10 | 19 | 29  | 38  | 48  |                                         |
| 3600 | 8  | 16 | 24  | 32  | 40  |                                         |
| 5200 | 7  | 13 | 20  | 26  | 33  |                                         |
| 5400 | 6  | 13 | 19  | 26  | 32  |                                         |
| 5800 | 6  | 12 | 19  | 25  | 31  |                                         |

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g 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  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power.

| Operating Mode    | Frequency | Measured Power | max. power | Antenna Gain | min. test separation distance | [ $\sqrt{f}$ (GHz)] | Result | Limit |
|-------------------|-----------|----------------|------------|--------------|-------------------------------|---------------------|--------|-------|
|                   | (MHz)     | (dBm)          | (mW)       | (dBi)        | (mm)                          |                     |        |       |
| 802.11b           | 2412      | 7.526          | 5.66       | 1.5          | 5                             | 1.553               | 1.7572 | 3     |
|                   | 2437      | 7.324          | 5.40       | 1.5          | 5                             | 1.561               | 1.6860 | 3     |
|                   | 2462      | 7.415          | 5.51       | 1.5          | 5                             | 1.569               | 1.7305 | 3     |
| 802.11g           | 2412      | 5.624          | 3.65       | 1.5          | 5                             | 1.553               | 1.1340 | 3     |
|                   | 2437      | 5.264          | 3.36       | 1.5          | 5                             | 1.561               | 1.0492 | 3     |
|                   | 2462      | 5.351          | 3.43       | 1.5          | 5                             | 1.569               | 1.0759 | 3     |
| 802.11n<br>(HT20) | 2412      | 4.254          | 2.66       | 1.5          | 5                             | 1.553               | 0.8272 | 3     |
|                   | 2437      | 4.241          | 2.66       | 1.5          | 5                             | 1.561               | 0.8290 | 3     |
|                   | 2462      | 4.263          | 2.67       | 1.5          | 5                             | 1.569               | 0.8375 | 3     |
| 802.11n<br>(HT40) | 2422      | 2.652          | 1.84       | 1.5          | 5                             | 1.556               | 0.5732 | 3     |
|                   | 2437      | 2.852          | 1.93       | 1.5          | 5                             | 1.561               | 0.6021 | 3     |
|                   | 2452      | 2.235          | 1.67       | 1.5          | 5                             | 1.566               | 0.5240 | 3     |

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

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})]$$

The test Result is less than 3.0 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

**Conclusion:** No SAR is required.