



MPE ESTIMATION

**Test report
On Behalf of
EPIC OPTIX, INC.
For
Aviation Head up display
Model No.: Eagle 2**

FCC ID: 2ANM9EAGLE-2

Prepared for : EPIC OPTIX, INC.

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Report Number: HK1904170763-3E

**5.2G WIFI**

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11a	9.87	9±1(10)	10.00	1	1.2589	0.00251
11n(HT20)	9.55	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.38	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	8.37	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT40)	8.12	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT80)	7.89	8±1(9)	7.94	1	1.2589	0.00199

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904170763-2E, antenna gain=1dBi

5.8G WIFI

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11a	9.88	9±1(10)	10.00	1	1.2589	0.00251
11n(HT20)	9.54	9±1(10)	10.00	1	1.2589	0.00251
11n(HT40)	9.43	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT20)	8.44	9±1(10)	10.00	1	1.2589	0.00251
11ac(HT40)	8.03	8±1(9)	7.94	1	1.2589	0.00199
11ac(HT80)	7.94	8±1(9)	7.94	1	1.2589	0.00199

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1904170763-3E, antenna gain=1dBi



Note: the device could not transmit simultaneously in 2.4G and 5G.

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine SAR test exclusion. The test exclusion threshold is 0.00792mW/cm^2 which is $< 1.0\text{mW/cm}^2$, SAR testing is not required.

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