

RF Exposure Evaluation for FCC ID: 2AGET-SIMLENSV1000

Refer user manual this device is a Head-mounted Virtual Reality equipment, and this device was close to human eyes, the use distance less than **5mm**. Based on the 47CFR 2.1093, this device belongs to portable device. The definition of the category as following:

Portable Derives:

CFR Title 47 §2.1093(b)

(b) For purposes of this section, a portable device is defined as a transmitting device designed to so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

FCC KDB 447498 D01 General RF Exposure Guidance v06 Limit

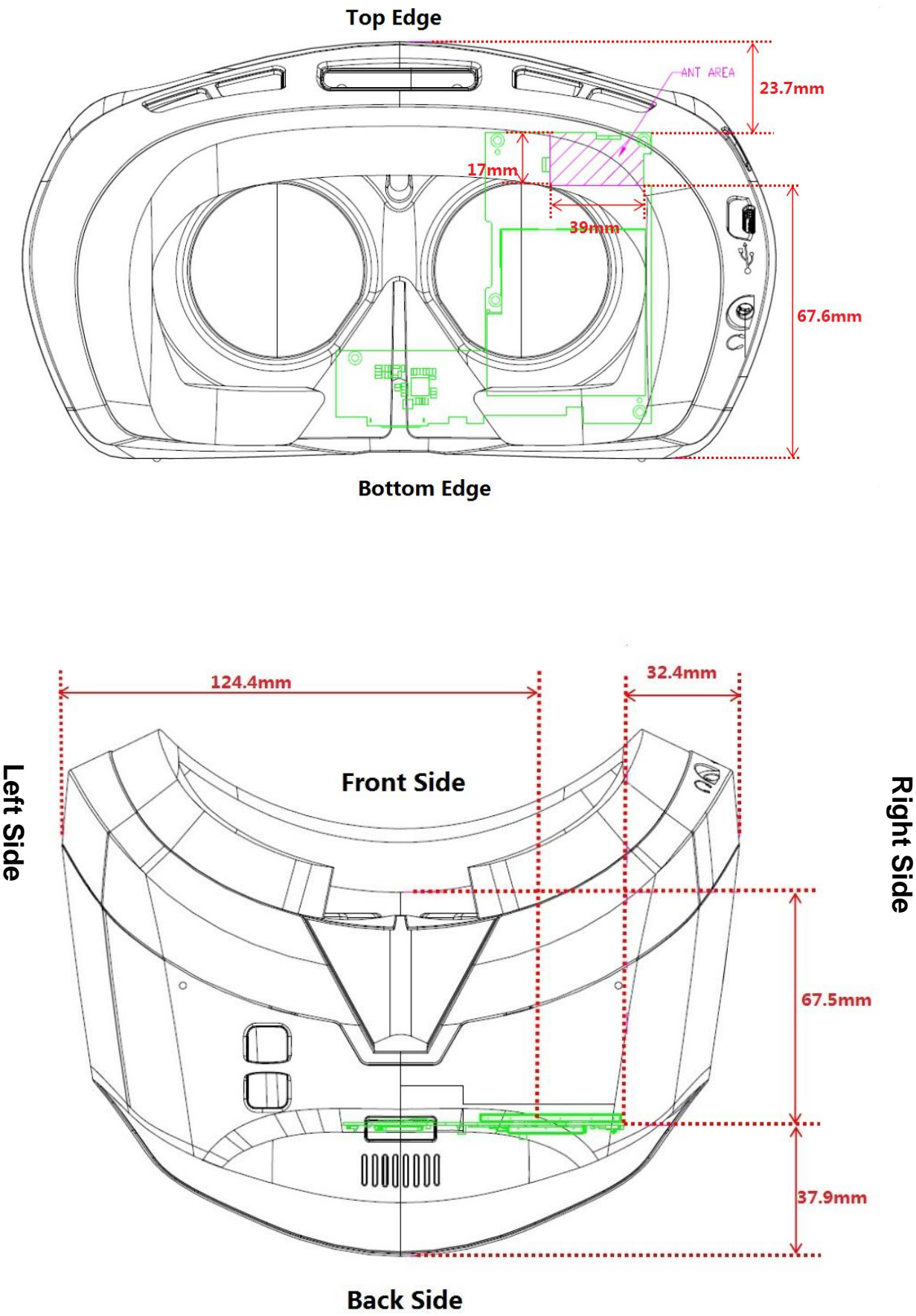
Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following Table A :

Table A: SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Frequency (MHz)	Test Separation Distance(mm)										SAR Test Exclusion Threshold (mW)
	5	10	15	20	25	30	35	40	45	50	
150	39	77	116	155	194	232	271	310	349	387	
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

EUT ANTENNA LOCATION SKETCH:



Note: PCB Antenna's Size: 39mm*17mm

According to the distance of the antenna to the sample surface, and combined table A, B. Judging results in the following table C:

Exposure Position	Mode	2.4G WLAN	Bluetooth BR/EDR	Bluetooth BLE
	Tune-up Maximum rated power (dBm)	14.70	4.30	-0.60
	Tune-up Maximum rated power (mw)	29.51	2.69	0.87
Front side	Antenna to User (mm)	67.5	67.5	67.5
	SAR exclusion threshold (mW)	196	196	196
	More than threshold	No	No	No
Back side	Antenna to User (mm)	37.9	37.9	37.9
	SAR exclusion threshold (mW)	67	67	67
	More than threshold	No	No	No
Left Edge	Antenna to User (mm)	124.4	124.4	124.4
	SAR exclusion threshold (mW)	796	796	796
	More than threshold	No	No	No
Right Edge	Antenna to User (mm)	32.4	32.4	32.4
	SAR exclusion threshold (mW)	57	57	57
	More than threshold	No	No	No
Top Edge	Antenna to User (mm)	23.7	23.7	23.7
	SAR exclusion threshold (mW)	38	38	38
	More than threshold	No	No	No
Bottom Edge	Antenna to User (mm)	67.6	67.6	67.6
	SAR exclusion threshold (mW)	196	196	196
	More than threshold	No	No	No

Note:

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

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

2. For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):32
 - 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
 - 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz

RF Exposure Evaluation Result: **Pass**

Note: More power data refer to the RF report.