Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China
Tel: 0755 26639496
Fax: 0755 26632877

Maximum Permissive Exposure

FCC ID: AK8SAWG700
System Name: Sound Bar[Active Speaker System: SA-G700; Active Subwoofer: SA-WG700]
M/N: HT-G700
EUT Name: Active Subwoofer
EUT Model No.: SA-WG700

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation
Sony Corporation declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.
RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

2.1. Estimation Result

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm^2)
GFSK (DTS)	2404	4.963	3.135	2.95	1.97	**0.001231**
	2440	4.291	2.686	2.95	1.97	0.001055
	2476	3.768	2.381	2.95	1.97	0.000935

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.97 Numerical**, and the highest power output (P) is **3.135mW**, the power density (S) is **0.001231mW/cm^2**.