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Maximum Permissive Exposure

FCC ID: 2AHTC-I4000

EUT: Mobile Projector

M/N: i400; B130i; L220R; LK-W11F; KWX1801; AW10; PPX740; MP400

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



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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

Test Mode	Frequency (MHz)	Peak Output Power (dBm)		Peak Output Power (mW)		Antenna Gain (dBi)		Antenna Gain (Linear)		MPE		
		Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Total
11b	2412	15.50	15.47	35.48	35.24	2.94	2.64	1.97	1.84	0.0139	0.0129	0.0268
	2437	15.20	15.32	33.11	34.04	2.94	2.64	1.97	1.84	0.0130	0.0124	0.0254
	2462	15.39	15.31	34.59	33.96	2.94	2.64	1.97	1.84	0.0136	0.0124	0.0260
11g	2412	12.37	12.26	17.26	16.83	2.94	2.64	1.97	1.84	0.0068	0.0062	0.0130
	2437	12.21	12.30	16.63	16.98	2.94	2.64	1.97	1.84	0.0065	0.0062	0.0127
	2462	12.12	12.07	16.29	16.11	2.94	2.64	1.97	1.84	0.0064	0.0059	0.0123
11n HT20	2412	11.40	11.36	13.80	13.68	2.94	2.64	1.97	1.84	0.0054	0.0050	0.0104
	2437	11.26	11.42	13.37	13.87	2.94	2.64	1.97	1.84	0.0052	0.0051	0.0103
	2462	11.18	11.07	13.12	12.79	2.94	2.64	1.97	1.84	0.0051	0.0047	0.0098
11n HT40	2422	11.62	11.49	14.52	14.09	2.94	2.64	1.97	1.84	0.0057	0.0052	0.0109
	2437	11.50	11.44	14.13	13.93	2.94	2.64	1.97	1.84	0.0055	0.0051	0.0106
	2452	11.38	11.53	13.74	14.22	2.94	2.64	1.97	1.84	0.0054	0.0052	0.0106

Based on safety distance (r) **20cm**, the power density (S) is **0.0268mW/cm²**.