# Intrasonic Technology, Inc.

## 9525 Forest View Street Dallas, Texas 75243, USA

# I600 Stereo Music System with Bluetooth

Model Number: I600

FCC ID:SLV-I600

Prepared for : Prepared for : Intrasonic Technology, Inc. 9525 Forest View Street Dallas, Texas 75243, USA

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# **Maximum Permissible Exposure**

#### 1. Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

#### (a) Limits for Occupational / Controlled Exposure

Frequency	Electric Field	Magnetic	Power	Averaging	
Range (MHz)	Strength E)	Field Strength	Density (S)	Times   E	
	(V/m)	(H) (A/m)	(mW/cm2)	2 ,   H   2 or	
				S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			F/300	6	
1500-10000			5	6	

### (b), Limits for General Population / Uncontrolled Exposure

Frequency	Electric Field	Magnetic	Power	Averaging	
Range (MHz)	Strength E)	Field Strength	Density (S)	Times   E	
	(V/m)	(H) (A/m)	(mW/cm2)	2,   H   2 or	
				S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-10000			1.0	30	

Note: f=frequency in MHz; \*Plane-wave equivalent power density

#### 2. MPE Calculation Method

E (V/m) = (30\*P\*G) 0.5/d Power Density: Pd (W/m2) = E2/377

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = (30\*P\*G) / (377\*d2)

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

## 3. Calculated Result and Limit

Model	Frequency (MHz)	Peak	Peak	Ante	nna gain	Power	Limited of	
		output	output	r (dBi)	(Linear)	Density (S)	Power	Test
		power	power				Density (S)	Result
		(dBm)	(mW)				(mW/cm2)	
GFSK	2402	1.479	1.406	4.1	2.57	0.00072	1	Compiles
	2441	1.273	1.341	4.1	2.57	0.00069	1	Compiles
	2480	1.074	1.281	4.1	2.57	0.00065	1	Compiles
8-DPSK	2402	1.050	1.274	4.1	2.57	0.00065	1	Compiles
	2441	0.604	1.149	4.1	2.57	0.00059	1	Compiles
	2480	0.629	1.156	4.1	2.57	0.00059	1	Compiles

