1.0 Purpose

The purpose of this report is to provide a more detailed description of the connections, usage, schematics, and parts lists. This report is to be used in combination with the EMI TEST REPORT to be submitted to FCC for certification of the E-9000 product with V2.0 900MHz ISM band Transmitter.

2.0 Scope

The document although used primarily in combination with the EMI TEST REPORT for FCC certification submission, does contain information included in documents such as the users manual, and test procedures.

3.0 Test Description

3.1 Test Configuration

Unit Name – Processor, Monitor, Printer, Cable, Etc. (indent for features of a unit)	Style/Model/ Part No.	Serial Number	Obj. of test	120 V	220 V	Comments/FCC ID#
E-Zone Tower Unit	E-9000	001	■	■		

3.2 Equipment Description

Compact Entertainment System for Fitness Industry. Audio/video system with self-contained audio CD, audio cassette tape, and television with wireless headphone. The audio channel of one of the three sources is transmitted to wireless headphones.

3.2.1 Mode of Operation

The EUT unit that was used during the testing contained software that allowed the transmitter frequency, power output, and modulation to be changed manually. Other than allowing the transmit frequency, power output, and modulation to be selected manually, this software allowed the EUT circuits and functions to behave as they would in normal operation. The frequency was selected through the use of a Laptop at a remote end of a cable connected to the transmitter. The location of the Laptop was such that it did not interfere with the emission measurements made at the test site. Special software that ran on the Laptop was used to send commands to the Transmitter in order control the setting of the frequency, output power, and modulation. The laptop and special software used on the laptop would not normally be connected to the EUT and was only used in order to allow modifications of power output and modulation during the tests for compliance. These settings would be loaded into a non-volatile EEPROM on a manufactured unit at test and calibration time (see additional information on manufacturing calibration procedure). Although the power output was able to be set manually, it was set so that it did not exceed the FCC allowable limit (see additional information on manufacturing calibration procedure). The modulation was also calibrated to give a standard deviation frequency under normal operating conditions (see additional information on manufacturing calibration procedure). The frequency was selected using the laptop, but could also have been selected through the on-screen display of the tower unit (either method of changing frequency accomplishes an identical result).

In order to modulate the carrier of the transmitter a Video signal generator was used to generate a video NTSC signal. This NTSC signal also incorporated a 1KHz full amplitude audio tone. The TV audio path was selected and the 1KHz tone was directed to the EUT transmitter for modulation.

3.3 Antenna Requirement – per 15.203

The Antenna is internal and can not be removed or changed by the operator.

3.4 Schematics