PVi5300 is a five channel mix amplifier, assembled SD card,USB,MP3 and Bluetooth playing function.

SD and USB signal input from front panel CH1-4 XLR, and EQ processed, one output to front panel Main port and the other to rear panel AMP1 and AMP2.

MP3 signal input from front panel CH5 RCA, amplified and EQ processed, one output to front panel Main port and the other to rear panel AMP1 and AMP2.

Bluetooth signal received from Bluetooth module, sent to CH5,one output to front panel Main port and the other to rear panel AMP1 and AMP2.

This device uses a Bluetooth module. This module employs a 16MHz crystal.

This Bluetooth module is regulated to Bluetooth V2.1. and set from

2402.00MHz to 2480.00MHz.The separation is 1.0MHz and there are 79 channels

in total. The working procedures are:

USB PORT: This usb port is only used for USB flash disk. There is no circuit that could

communication with class B PC or laptop etc. The USB port Only contains power lines and voltage detecting lines.

a. When power on, this device will loop scan the whole frequency until a connection command from the partner is received.

b. This device transmits a response signal.

c. The partner receives the response signal and recognizes it, then send a connection command to establish the connection.

d. each frequency is used equally on the average by each transmitter that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event.

e. After the connection establish successfully, the data transmission is beginning. At the same time, the partner and this device will shift frequencies in synchronization per a same pseudo randomly ordered list of hopping frequencies, the hopping rate is 1600 times per second. This device conform to the criteria in FCC Public NoticeDA00-705.

f. The bandwidth of the this device, which is set to a fixed width by the software, match the hopping channel bandwidth of their corresponding partner. This device is a true frequency hopping system and does not have the capability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

There are 79 channels in total. The channels hopping from one channel to another channel during the pseudorandom selection process. The hopping interval is 12 millisecond. This system frequency hops between 79 channels. If it is determined that one of the 79 hopping channels is found to be noisy or poor due to other RF interference, then a new channel is selected from the 78 unused channels and the one noisy channel is released to the unused group. This repeats whenever a noisy or poor channel is detected. For example, for the hop pattern of 2414MHz,2434MHz,2444MHz,2434MHz,2451MHz,2441MHz,2454MHz,2434MHz,2427MHz,2461 MHz,2461MHz,2444MHz,2414MHz,2448MHz,2451MHz,2417MHz,2478MHz,2469MHz,2473MHz, 2403MHz,etc. The sequential hops can not follow any order, is completely random.