

## Regulatory Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. such modifications could void the user's authority to operate this equipment

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## **DSA-408 Brief Introduction:**

Section One: General Introduction

Section Two: DSP Connectors and control units

Section Three: Technical Data

Section Four: Graphical User Interface

Section Five: Mobile APP

Section Six: Wiring Diagram

### 1、 General Introduction:

→ 24bit/48Khz sampling frequency, 56bit DSP Resolution

→ 4CH RCA Stereo inputs, 4CH Stereo High Level Inputs , 8CH RCA Low Level Outputs

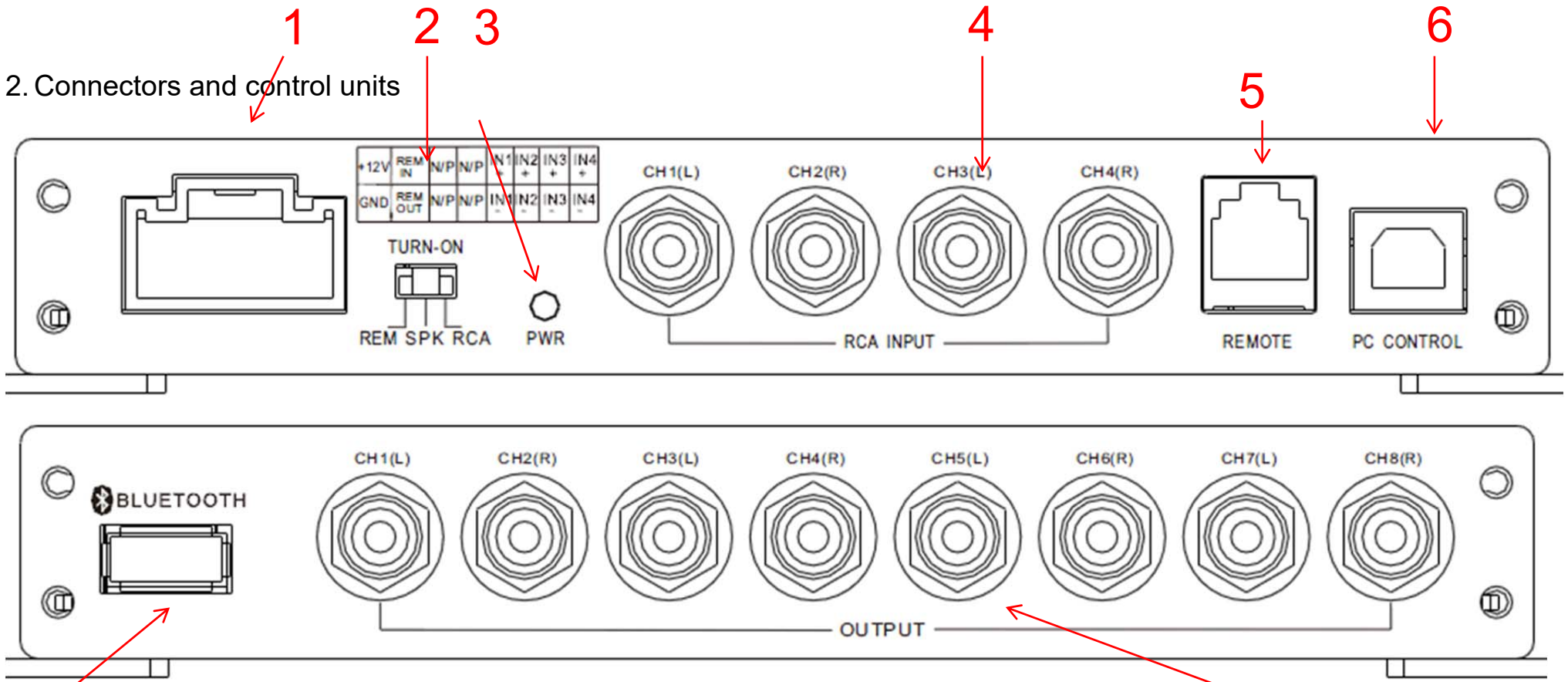
→ Remote controller with LED-Display for Master Volume and storage data

→ Subwoofer Volume

→ 6 storage modes

→ simple system with high stability

## 2. Connectors and control units



**8** 1. Power/Speaker Connector: REM /IN REM/OUT /SPK LEVEL IN

2. Turn on selection: REM , SPK DC turn on, RCA signal auto turn on

3. Power LED ( Green )

4. RCA signal input (Line input):RCA inputs for connecting head unit signals

5. External Remote for the volume and mode switch

**7**

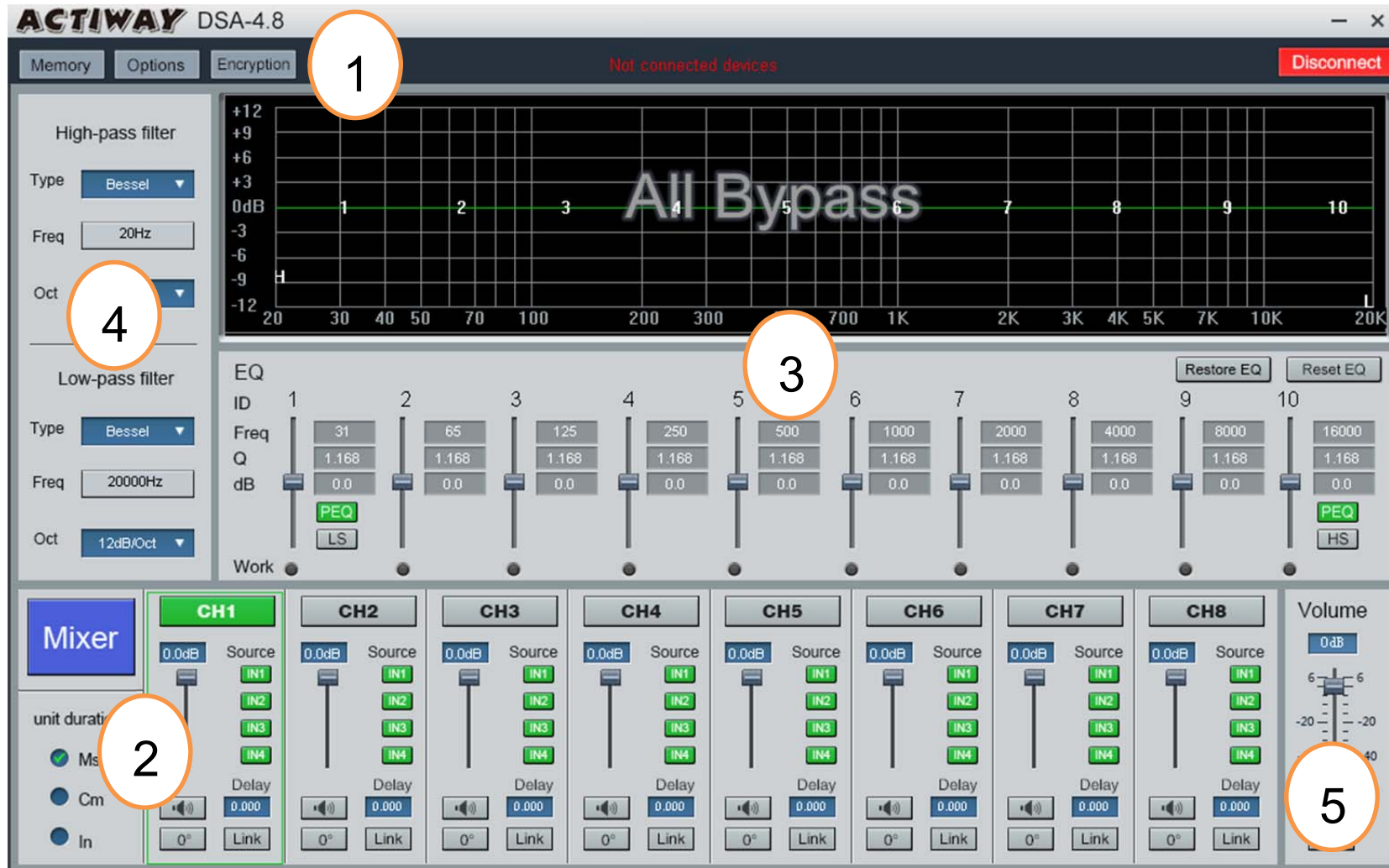
6. PC control: connect the DSP to your PC.
7. 8CH low level output (Line output): Line outputs for connecting amplifiers.
8. External Bluetooth: connect the mobile for APP adjustment and play music. (Bluetooth 4.0 dual-mode)

### 3. Technical Data:

1. Over/under voltage protection, DSP will go into protection automatically when the voltage is over 17.5V or lower 7.5V. The DSP will resume normal work when the voltage returns to normal.
2. Reverse voltage protection
3. Mute circuit and delay.
4. High level input impedance: 180R
5. RCA input impedance:  $\geq 20K$
6. Frequency response: 20HZ-20KHZ
7. Output impedance:  $< 50R$
8. Maximum input level  $\geq 3.2V$  1% THD
9. S/N  $\geq 115DB$ .
10. REM OUT current  $> 500MA$

11. Operating voltage : 9-17V

#### 4. Graphical User Interface



(1) Main menu (see above)

A. load: connect with the DSP and on-line operation

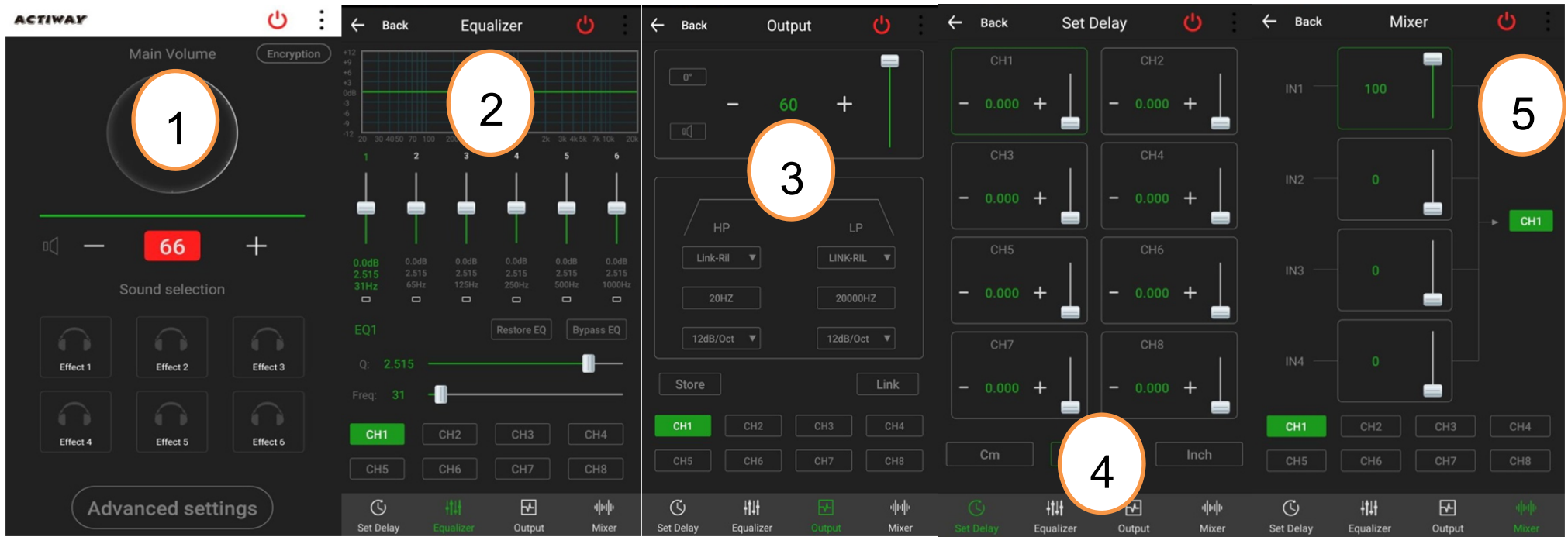
B、 Menu: Save modes, encryption and change language.

(2) Channel configuration

(3) Equalizer

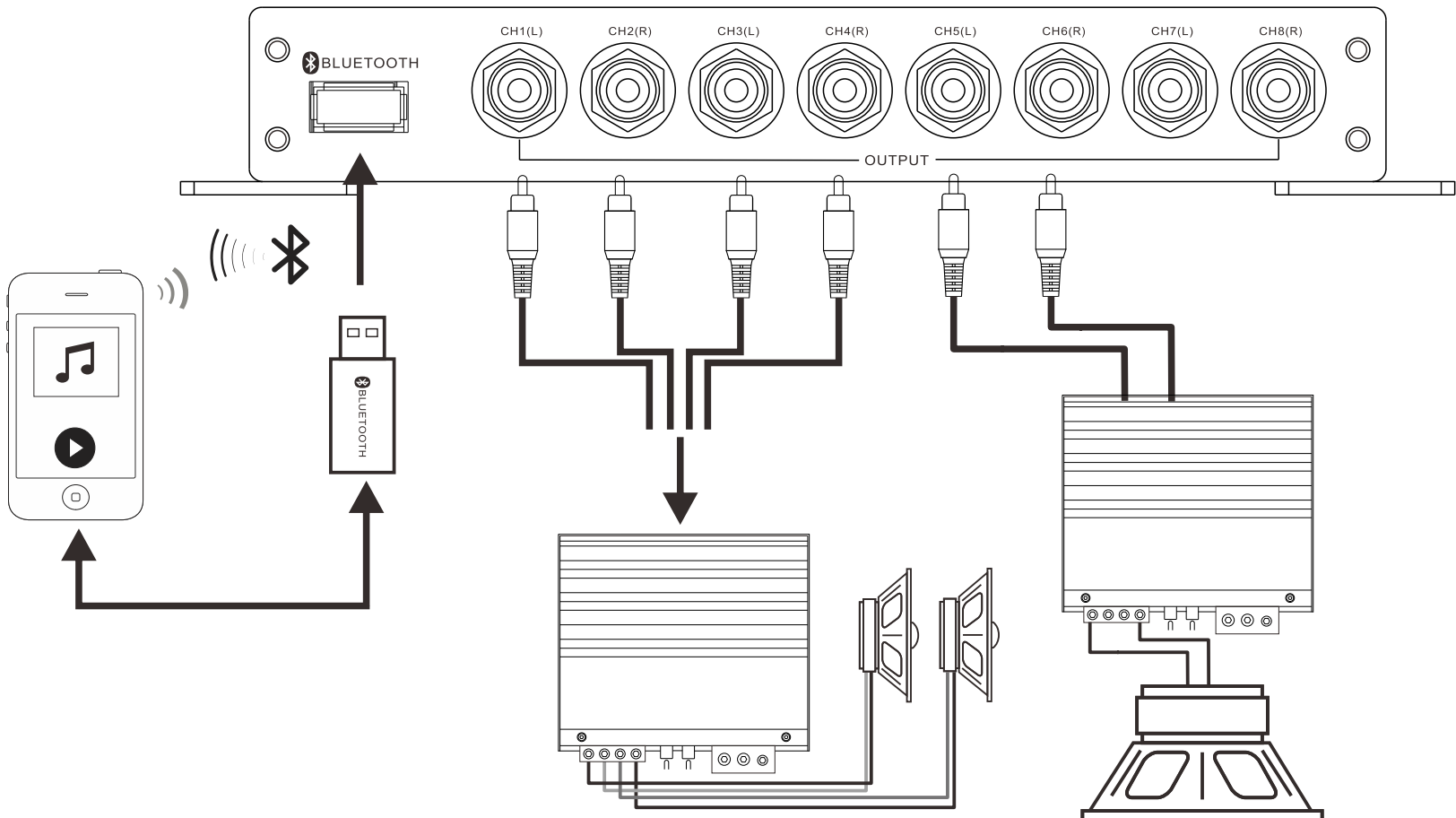
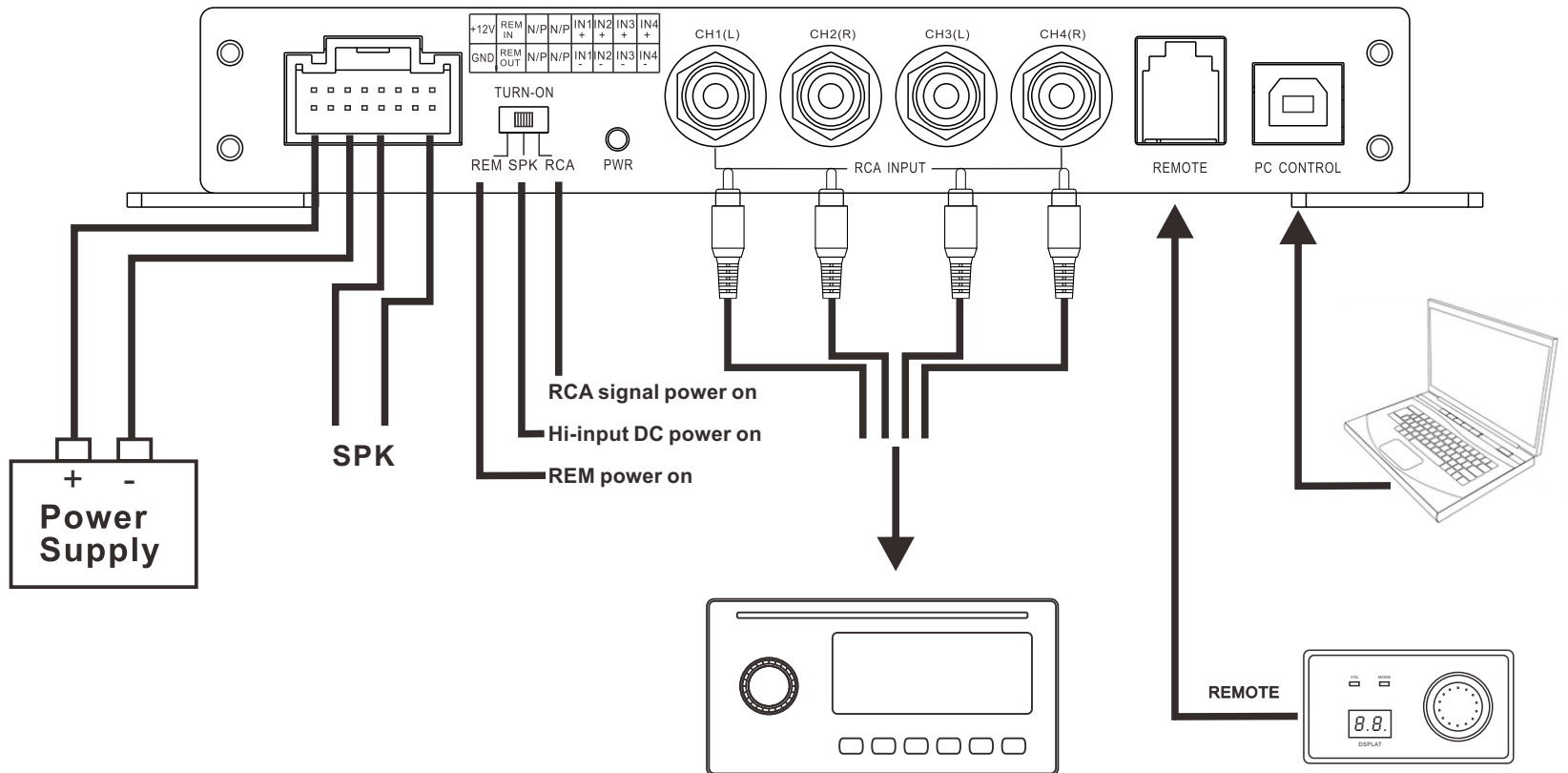
(4) Highpass filter and Lowpass filter

(5) Volume Control



1. Main Menu, volume control and six storage modes
2. Equalizer adjustment
3. Volume control, mute, phase and HP/LP
4. Set Delay
5. Mixer (summing)

# DSP-408 Wiring diagram



## 3 ways for adjustment:

1. GUI
2. Connect to Mobile phone via Bluetooth and control by App
3. Remote control

PC will be priority, when 3 ways are all be connected,