

PROJECT 8i

8 Channel DSP with Amplifier



MANUAL BOOK

www.flux-audio.com

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1. INTRODUCTION

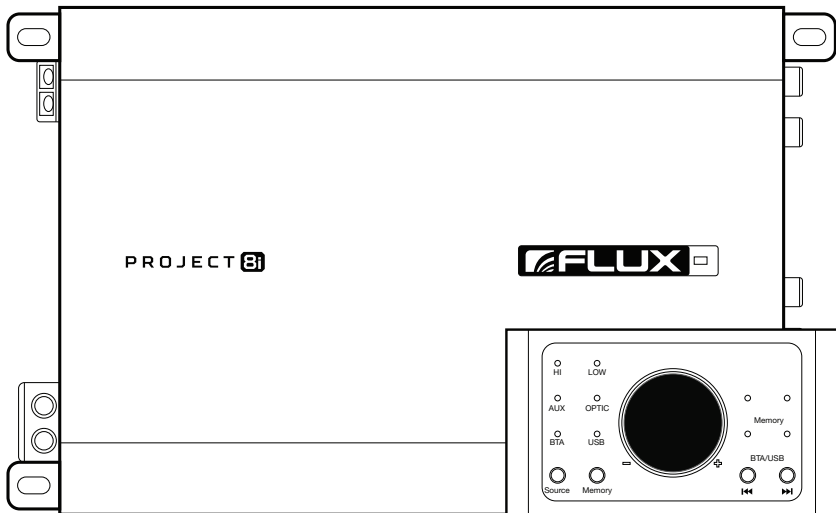
Thank you for choosing to purchase one of the best of the FLUX product. Installation quality can affect the performance of your PROJECT 8i DSP Amplifier. Before you install PROJECT 8i, we recommend you read the book of installation manual and follow the instructions on the cable connections and mounting. You will get the maximum listening pleasure and ultimate sound reproduction you ever hear.

ATTENTION

1. Before using the product, please read all safety matters. After finishing reading, please keep this manual for future reference.
2. To reduce the risk of injury, please keep the product under strict regulation when there are children nearby.
3. The power supply type of the product must conform to the operating instructions or that marked on the product.
4. Please make sure you follow the labeling and requirements to connect the device, or else it may cause malfunction.
5. When the machine is not in use for long period, please turn it off and shut down the power supply. This can prevent the dangers such as fire due accident from the machine.
6. Careful maintenance. Keep any metal things such as hairpin or iron nails from falling through the vent holes into the inside of the product.
7. The product is not allowed to expose to rain or moisture environment. Also objects such as vases, tea cups that filled with liquid are not allowed to put on the product.
8. Please keep it away from the damp, high temperature, dusty or corrosive environment.
9. Pay attention to maintain good ventilation. Don't put things such as newspaper or cloth into the vent hole to obstruct the ventilation. When installing the machine make sure the vent hole is at least 10cm distance away from other objects.
10. Under the following situations, please entrust a qualified maintenance personnel to repair :
 - Debris or liquid already fall into the inside of machine.
 - The product has been caught in the rain.
 - The product cannot function normally or shows a significant change in the operation.
 - Products have fallen bad or have serious damage to the appearance.
11. If there is any abnormal noise or smell in the use of the product, please stop running the machine immediately. Consult a dealer or repair center and ask for a check.
12. When the situation doesn't belong to description of the user's maintenance guide, please don't try to fix it yourself, and don't open the enclosure. The qualified maintenance personnel shall be entrusted to carry out the repairs.

2. PROJECT 8i FEATURES

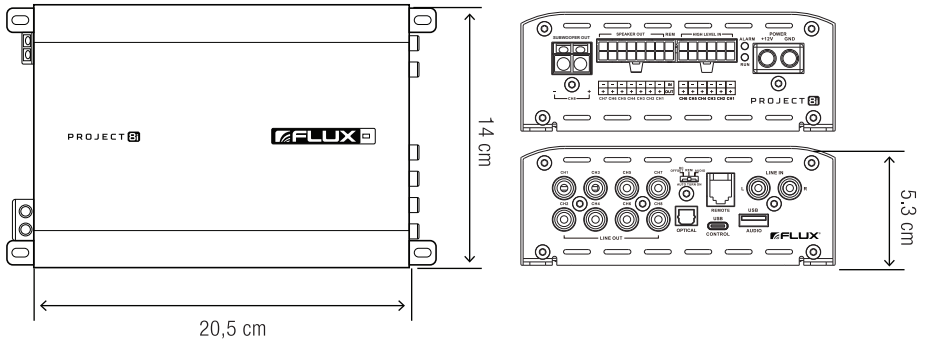
- 8 Channel DSP + 7 x 50 Watt & 1 x 200 Watt Amplifier.
- 6 Channel high input, 2 Channel RCA input, 8 Channel output DSP.
- High Level/Low Level/ AUX/Optical.
- Easy Desktop Software “Flux Audio Tools”
- Multi modes of turn on/off: Audio/ DC Offset/ BT/ REM.
- Large current turn on/off remote output, 0- 10s time delay remote Turn-on setting.
- All channel phase 0/180 degree can be adjusted.
- Controller which can adjust volume, input, memory preset, source, forward & backward track via USB.



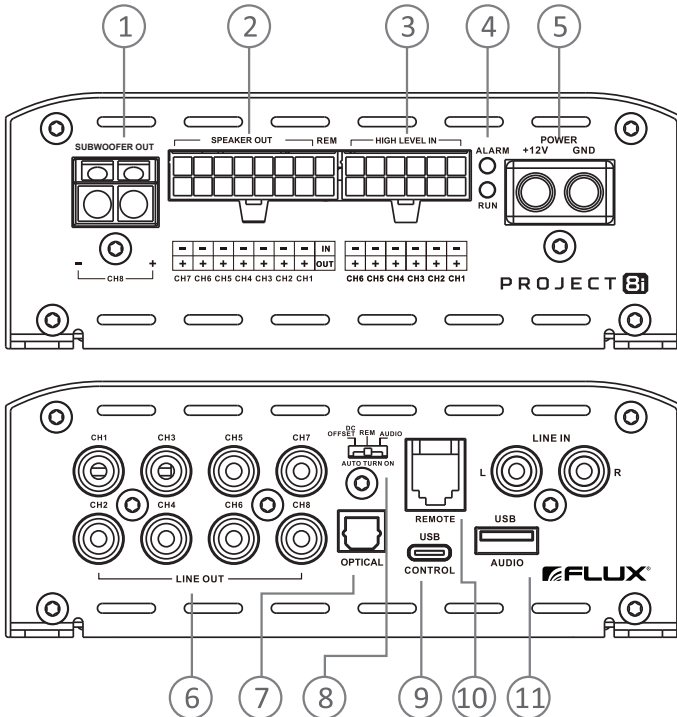
3. TECHNICAL SPECIFICATION

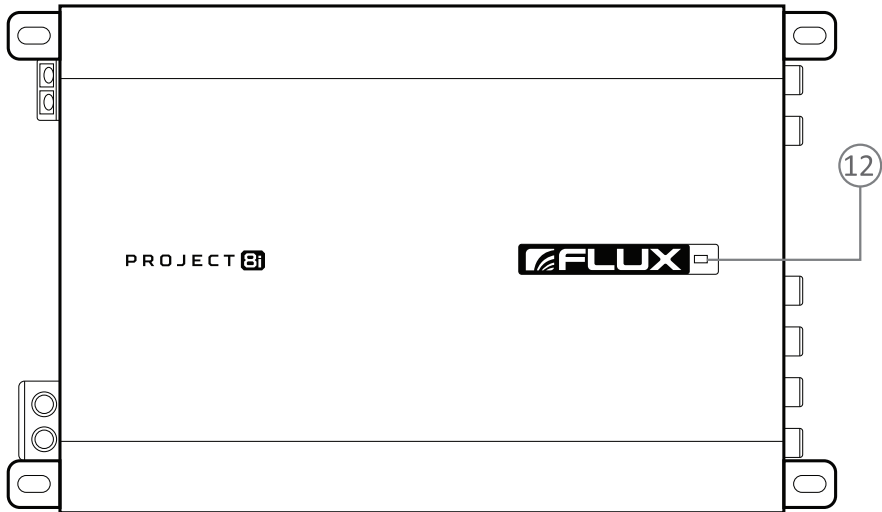
Working voltage	8.2-16V DC	
Idling voltage	0.74 mA	
Standby current	<2 mA	
REM input voltage	8.2 - 16 V	
REM input voltage	DC 12.0 V (0.5A)	
THD @1kHz, 1V Rated power output	0.02%	
Band width @-3dB	20 - 20 KHz	
Input sensitivity (Low Level)	2 mV - 2V	
Input sensitivity (High Level)	8 mV - 10V	
Input impedance	Low level: 22 K Ω / high level: 36 Ω	
Max Output Level(RMS) @ 0.1% THD	2 V	
INPUT /OUT PUT	High Level	6 CHANNEL
	Low Level	2 CHANNEL
	AUX/ Optical/ USB	Stereo
	Low Level (Pre) Output	8 channel
	4 Ohm (stereo)	7 x 50 W
		1 x 200 W
Crossover Filter type	Full / High Pass / Low Pass / Band Pass	
Phase Control	0 $^{\circ}$ / 180 $^{\circ}$	
Size	20,5 x 14 x 5,3 Cm	

4. PROJECT 8i DIMENSION



5. PANEL DESCRIPTION





1. SUBWOOFER OUT:

Output for subwoofer with 4 ohm or 2 ohm impedance, amplified & processor by internal DSP

2. SPEAKER OUT:

Output for speaker, this signal amplified & processing by internal DSP.

- REM IN : It's used to connect to the switch control remote output signal from the audio equipment such as Car CD/ DVD. The product will switch turn on/off automatically with the audio equipment.
- REM OUT : It provides separate REMOTE signal output to other amplifiers to control other amplifiers switch turn on/off .The control signal can be set by software 0-10 seconds delay.

3. HIGH LEVEL IN:

This terminal can connect directly from high output to head unit. For operating with OEM headunit if not have RCA output.

4. WORKING STATUS INDICATOR :

RUB LED: Working status indicator. When the processor finishes self-checking and go into proper working status, Blue led will illuminate.

ALARM LED: Protection status indicator. When this indicator flashes, it indicates that the processor is in abnormal working state and there will be no output signal.

5. POWER SUPPLY TERMINAL:

For connect to power supply positive & negative

6. LOW LEVEL SIGNAL OUTPUT TERMINAL:

Project 8i DSP amplifier features low level output function to connect with external amplifier.

7. OPTICAL STEREO DIGITAL SIGNAL INPUT PORT

Switching Project 8i amplifier audio source to optical input can play stereo digital signal output from vehicle CD or external sound source. Optical sampling rate supports 24 Bit/96KHz.

8. AUTO TURN ON/OFF CONTROL MODEL OPTIONS

For auto turn on/off mode, it offers three options: DC OFFSET/REM/AUDIO.

REM: When switched to REM, the remote control output terminal of the OEM source unit is connected to the REM terminal of the amplifier, which is the preferred starting method.

DC Offset: If the OEM source unit has no REM signal output, you can choose DC OFFSET mode.

DC OFFSET can turn on/off amplifier by detecting the 6V DC Offset from the OEM source unit terminal.

AUDIO: This mode controls the power switch by detecting audio signal from the source unit. When using this mode, please pay attention to the volume settings of the source unit. If the volume of the source unit is too low, the amplifier may fail to turn on.

9. USB EXTERNAL COMPUTER CONTROL

Using the standard accessory of Type-C data line, Project 8i amplifier can be connected to PC and controlled and tuned by special PC software. The interface conforms to the standard interface of USB.3.0 and backwards compatible.

10. EXTERNAL WIRED CONTROLLED PORT

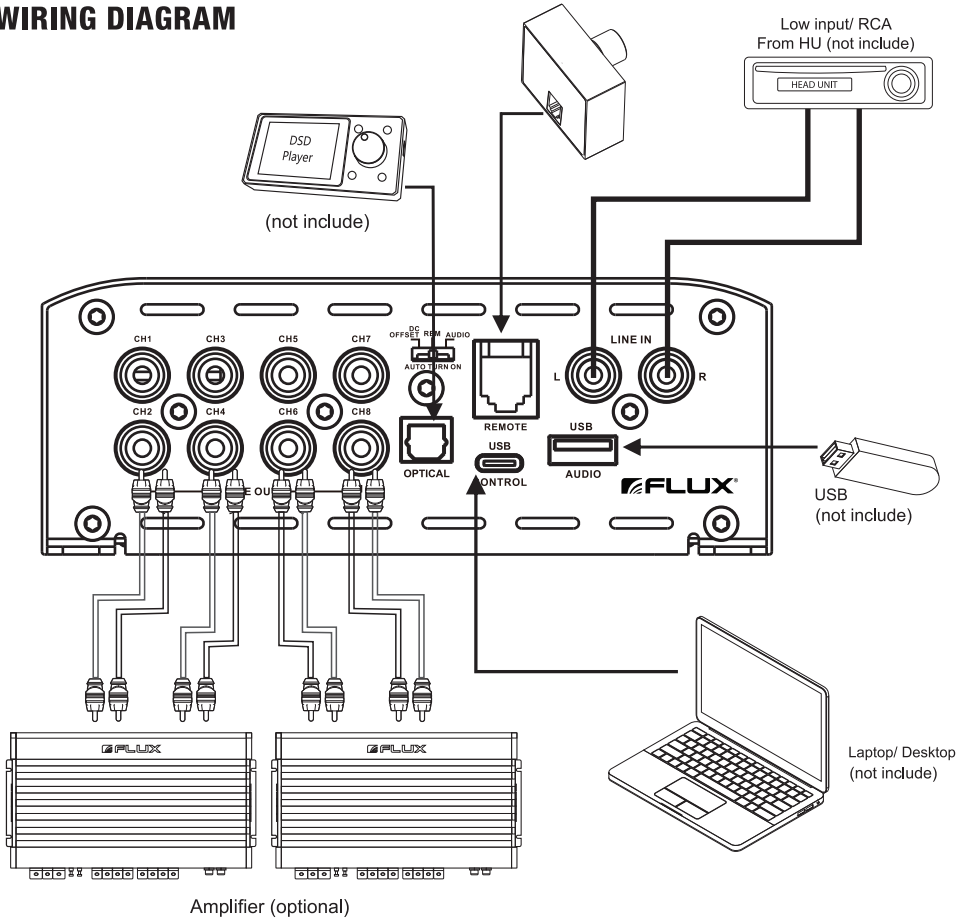
Project 8i supports control of wired controller. By using our special wired controller, you can operate Project 8i DSP amplifier through the controller to select the sound source, preset mode: adjust total volume, auxiliary volume: mutes, switch between the previous and the next song from bluetooth/U disk.

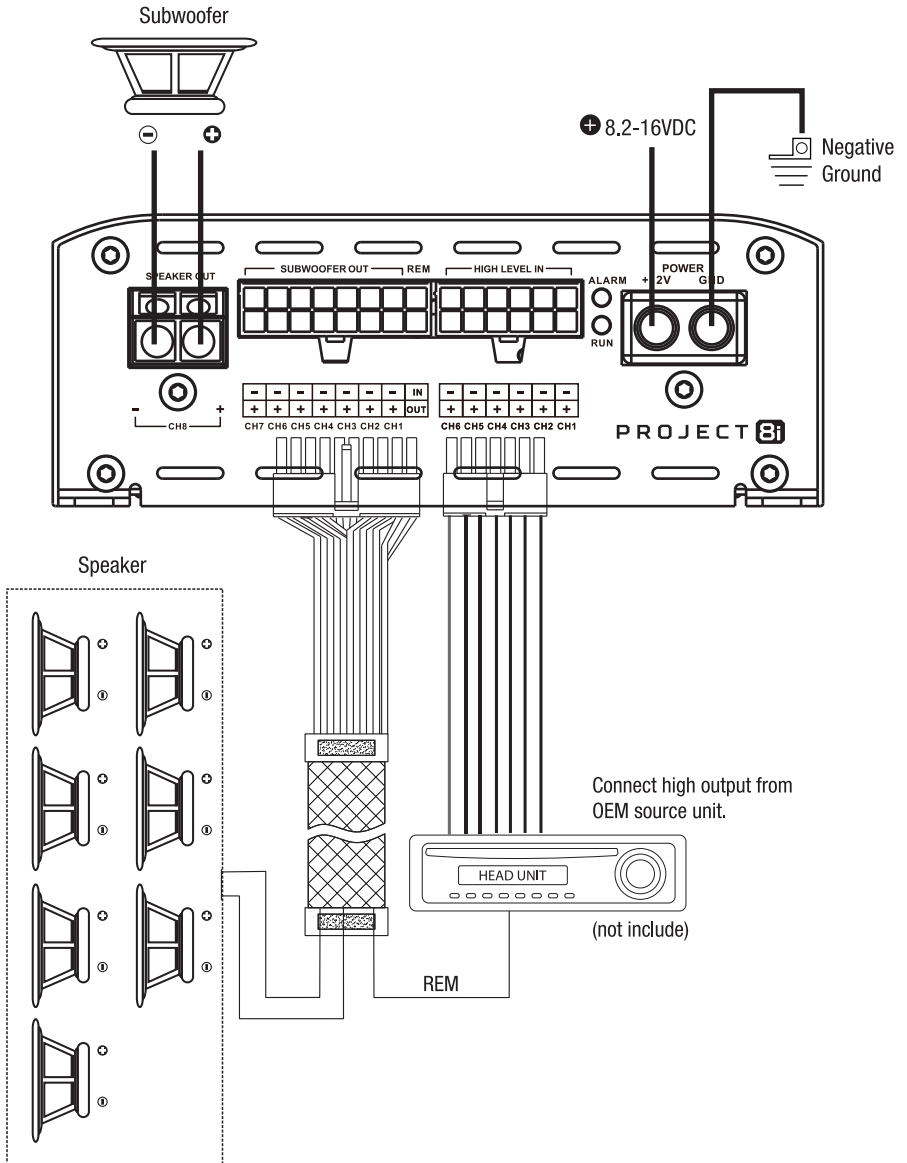
11. USB FLASH DISK:

It can read music files from USB Flash Disk, support five formats of audio files of APE/ FLAC/ WAV/ WMA/ MP3. If the USB disk failed to read, please format USB into FAT32. External USB can support up to 128GB.

12. POWER INDICATOR LED

6. WIRING DIAGRAM





7. FLUX AUDIO TOOLS INSTALLATION

Audio Tool Software:

- Tuning Tools : **FLUX Audio Tools** for PC (Personal Computer/ Laptop/ Notebook)

Tuning software (FLUX Audio Tools) offers convenient interaction environment for users to configure the device parameters. Tuning software can back up the configuration parameters to the disk files, which offers a very convenient means of switch preset scene configuration and parameters between multi units or different types of car.

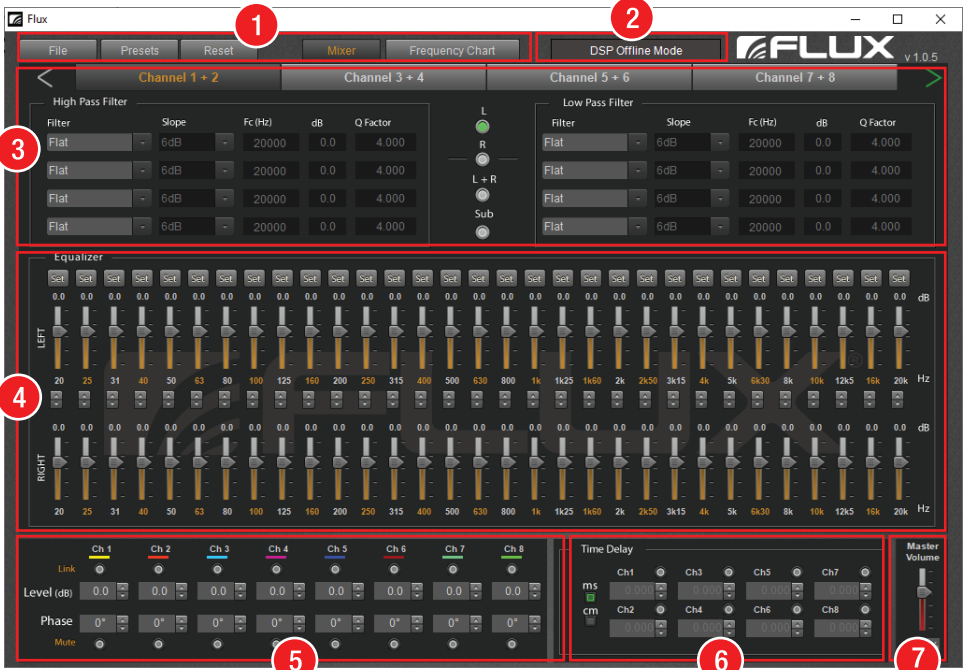
7.1 Software Access

PC Software / Android Phone application can be downloaded from our company website (www.flux-audio.com). Also you can get more optimized configuration file and practical application cases from our web site.

7.2 Software Installation

PC software running environment : Compatible with Windows XP | Windows 7 | Windows 8 / Windows 10 operating system. Download the software and follow the system prompt for installation.

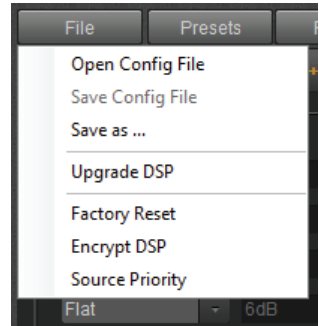
8. FLUX AUDIO TOOLS CONFIGURATION (PC/ LAPTOP/ NOTEBOOK)



1 Main Menu Panel :

Tab “File”: When the file tab is selected a drop- down menu will appear including the entries shown in the image.

- Open Config File (Load All) : To open your previously
- Save Config File (Save All) : To save your previously
- Save As : Save with different name
- Upgrade DSP : To update firmware
- Factory Reset : Reset all DSP setting
- Encrypt DSP : Set / remove password for your FLUX
Project 8i DSP



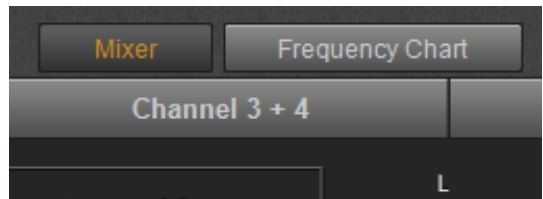
Tab “Preset”: When the presets tab is selected a drop-down menu to choose your saved presets that you save before.

Tab “Reset”: To reset your setting on your FLUX DSP

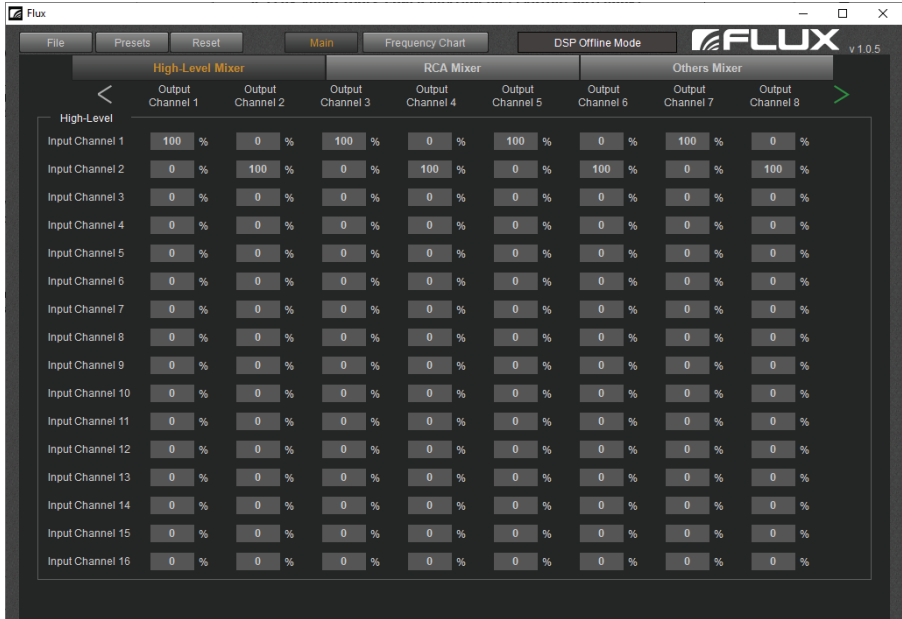


Tab “Mixer”: When the Mixer tab is clicked your moving to the mixer tuning window.

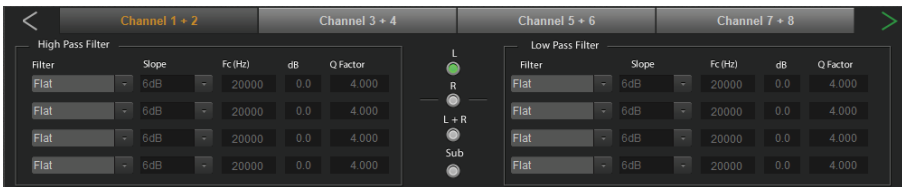
Tab “Frequency Chart”: to show your frequency chart window.



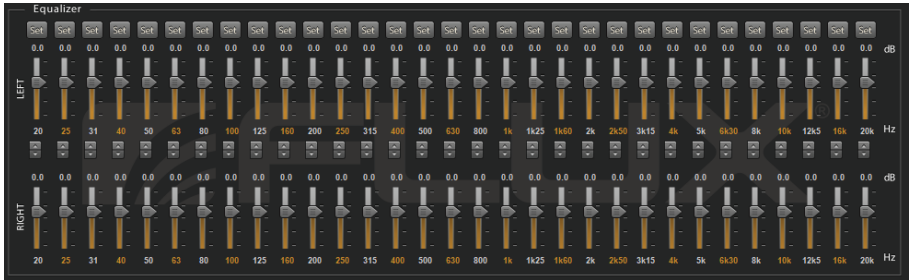
Mixer Tab



- 2 **Device Info Panel** : This Panel indicates the PROJECT 8 is correctly connected to the PC.
- 3 **Crossover Panel** : - Adjustable Freq High Pass / Low Pass Filter 20Hz-20KHz
 - Adjustable slope to 6db ti 24db
 - Independent Left / Right Channel



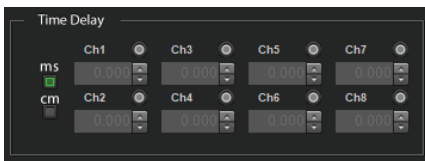
- 4 Equalizer Panel :** - Adjustable 31 band left / right equalizer from level -12dB to 20dB.
 - Adjustable Frequency from 20 Hz to 20 KHz .
 - Adjustable Q Factor (clik Set Button).



- 5 Level (dB) & Phase Panel :** - Adjustable level to -20dB
 - Adjustable Phase 0° - 180°



- 6 Device Info Panel :** - Adjustable Time Delay from 0 - 15 ms or 0 - 510 cm



- 7 Master Volume :** Can use for adjust default volume





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