

INSTALLATION AND OPERATION MANUAL

MUSIC ALL

**DDA-2400DSP
DDA-4400DSP**



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Chapter 1 Introduction

Output power

2*800W @4Ω, 2*400W @8Ω and 1*1000W @8Ω / 100V (DDA-2400DSP) or
4*800W @4Ω, 4*400W @8Ω and 2*1000W @8Ω / 100V (DDA-4400DSP).

The amplifiers support constant pressure 100V (1000W@10Ω). They monitor the status and DSP adjustments can be done in real-time and remotely. Available DSP functions are noise gate, matrix mixer, PEQ, crossover, delay, compressor and limiter. Analog and Dante® inputs.

Applications

Meeting Room
Medium/Big conference room
School
Restaurant
Shopping mall

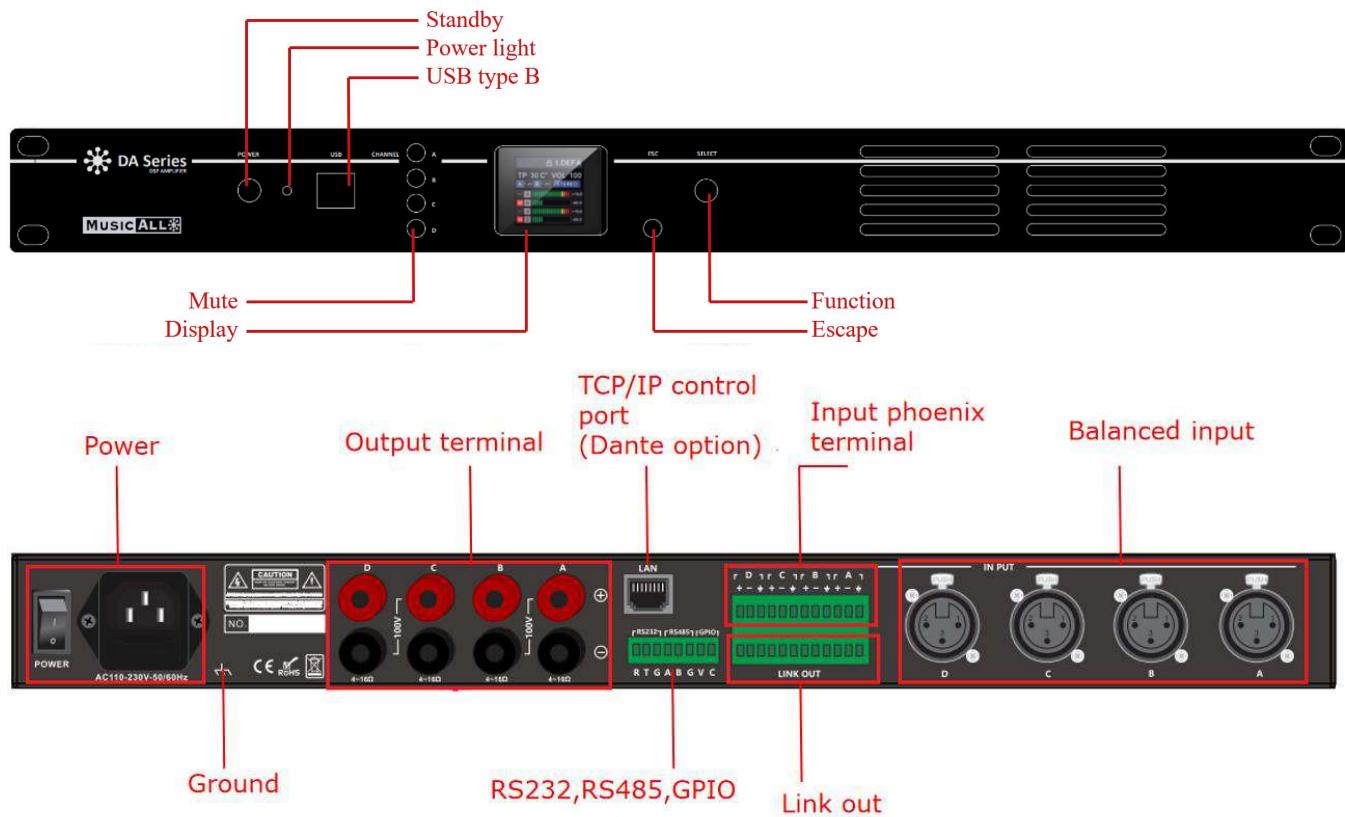
Features

- ▲ Analog and Dante® inputs
- ▲ 0dBu/6dBu sensitivity adjustment for each input
- ▲ Remote standby (and wake) amplifier
- ▲ Color IPS LCD display
- ▲ Support balanced XLR input and unbalanced RCA input
- ▲ Software selectable working modes: stereo, bridge, mono, free matrix
- ▲ Control interface: USB and RJ45 by TCPIP protocol, configuring RS232, RS485 central control interface, supporting GPIO external expansion control interface
- ▲ Support Constant Pressure and Resistance : 100V, 8Ω, 4Ω

Chapter 2 Technical parameters

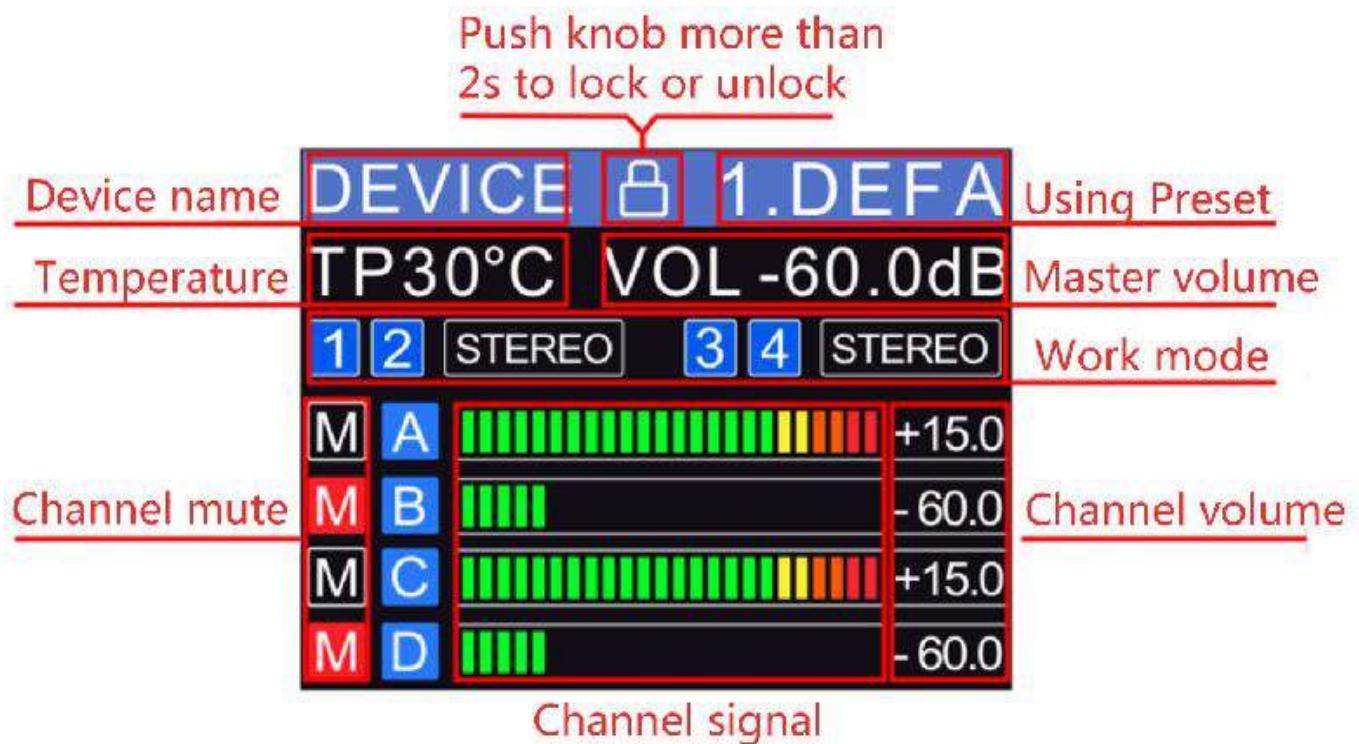
Input PEQ	31 PEQS
Output PEQ	10 PEQS
Crossover	Butterworth, Bessel, Linkwitz 6~24
Delay	Input delay: 0-80ms / Output delay: 0-20ms
Output Compressor	Knee, Threshold, Attack, Ratio, Release
Output Limiter	Threshold 90dBu~21dBu Release 1~2895ms
DSP Presets	30 (one for factory preset)
Control port	TCP/IP, USB, RS485, RS232, GPIO
Network	Rj45 , TCP/IP, 100/1000 Mbps
Channel	4
Power	4*400W@8Ω 4*800W@4Ω
Bridge Power	2*1000W@8Ω
Input Interface	Balanced 4*XLR; Unbalanced 4*RCA
Output Interface	4*Terminal
Cooling Mode	2*fans intelligent control
Gain	6dBu: 30dB (29.5 times) ; 0dBu: 36dB (31.1 times)
Maximum Input Level	6dB: 16dBu (4.9V)
SNR	6dBu: 94dB; 0dBu: 94dB
Frequency Response	20Hz ~ 20kHz (±0.5dB)@1W, 8Ω
THD+N	<0.1%@1W-full power
Sample Rate	48K/24bit
Channel Isolation	<-70dB
Work Mode	Stereo, Bridge, Mono, free Matrix
Remote Control	Standby, Wake, DSP functions
Amplifier Monitor	Temperature, Power, Current and Voltage
Constant Pressure and Resistance	100V 8Ω 4Ω
Dante®	2 channels (DDA-2400DSP) / 4 channels (DDA-4400DSP)
Display	320x320pixel IPS LCD
Protection Mode	DSP limiter, High temperature, DC, high frequency, short circuit, back EMF, peak current limiter, Back EMF, Surge current limiter, startup delay, power circuit breaker protection, power over voltage / under voltage protection
PC Software	Available
Weight	3.6kg
Size	483*390*44.5
Power Supply	110~230VAC

Chapter 3 Functional Structure



3.1 Display interface

3.1.1 Main page

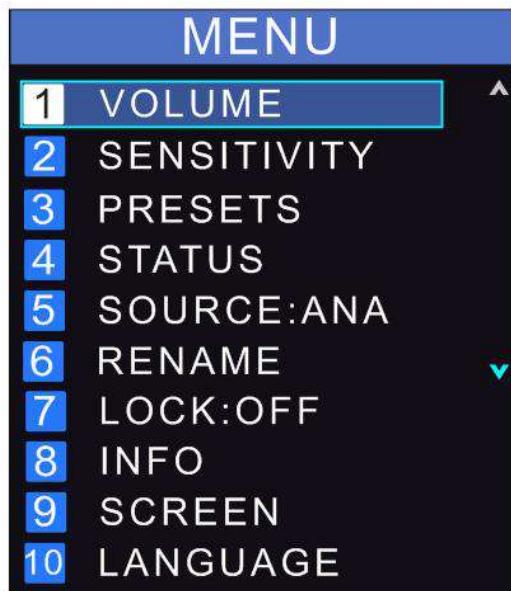


software connected



Output limiter working

3.1.2 Menu page



VOLUME		
INA	0.0dB	M
IN B	-59.0dB	M
IN C	0.0dB	M
IN D	0.0dB	M
OUT1	0.0dB	M
OUT2	0.0dB	M
OUT3	0.0dB	M
OUT4	0.0dB	M

SENSITIVITY			
INA	6dBu	0dBu	
IN B	6dBu	0dBu	
IN C	6dBu	0dBu	
IN D	6dBu	0dBu	

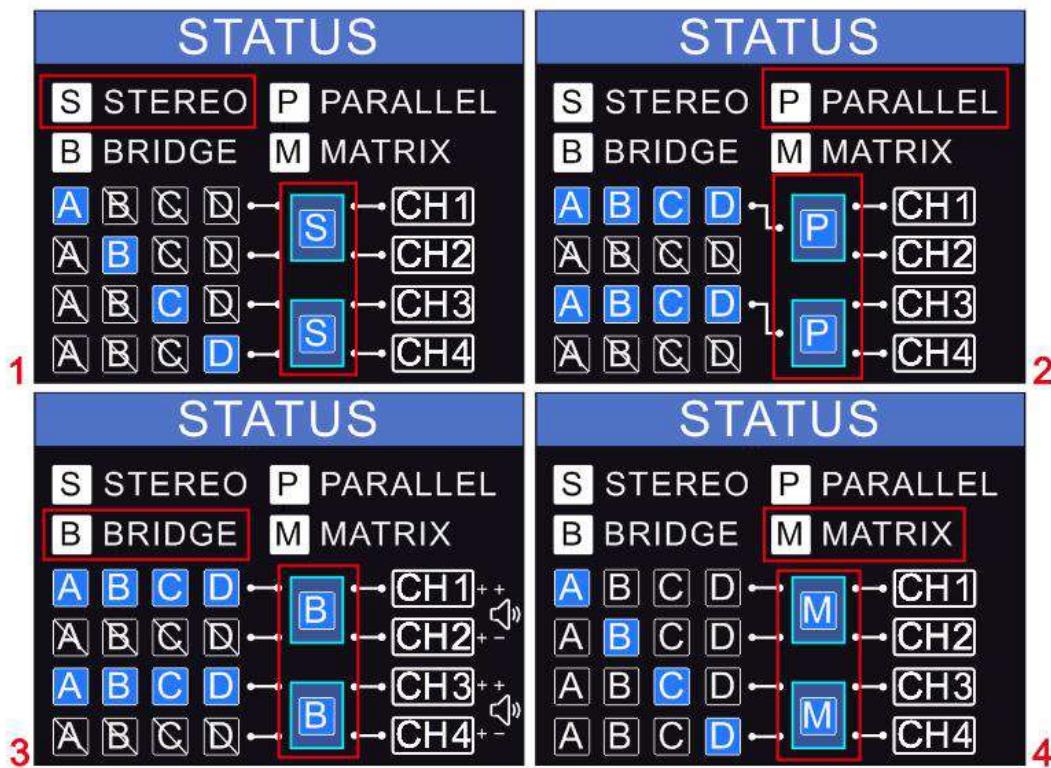
Two steps sensitivity



Set the working mode (STEREO/PARALLEL/BRIDGE/MATRIX) of

the amplifier under the STATUS tab.

Select the input channels (A/B/C/D) you want to use.



Chapter 4 Software installation

The software provides users with a fast interface to control the amplifier, the configuration parameters can be stored in the preset files, so it is convenient to recall, reset or start a different application.

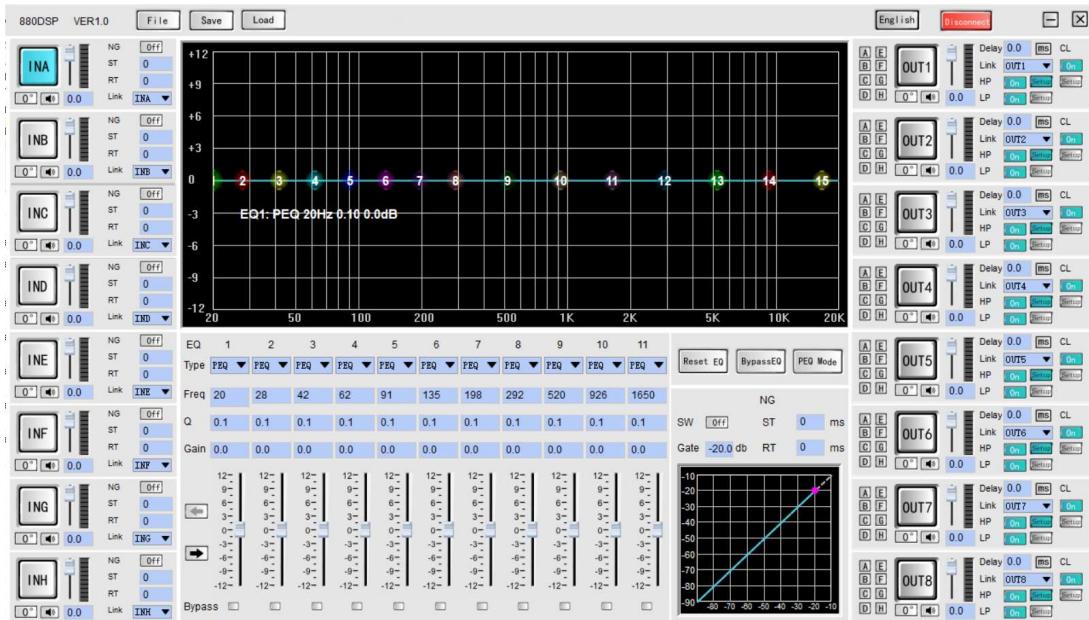
4.1 Operating Environment

The software supports installation on Windows systems with win7/win8/win10/win11 which must be operating with Microsoft.NET Framework 4.0.

4.2 Installation

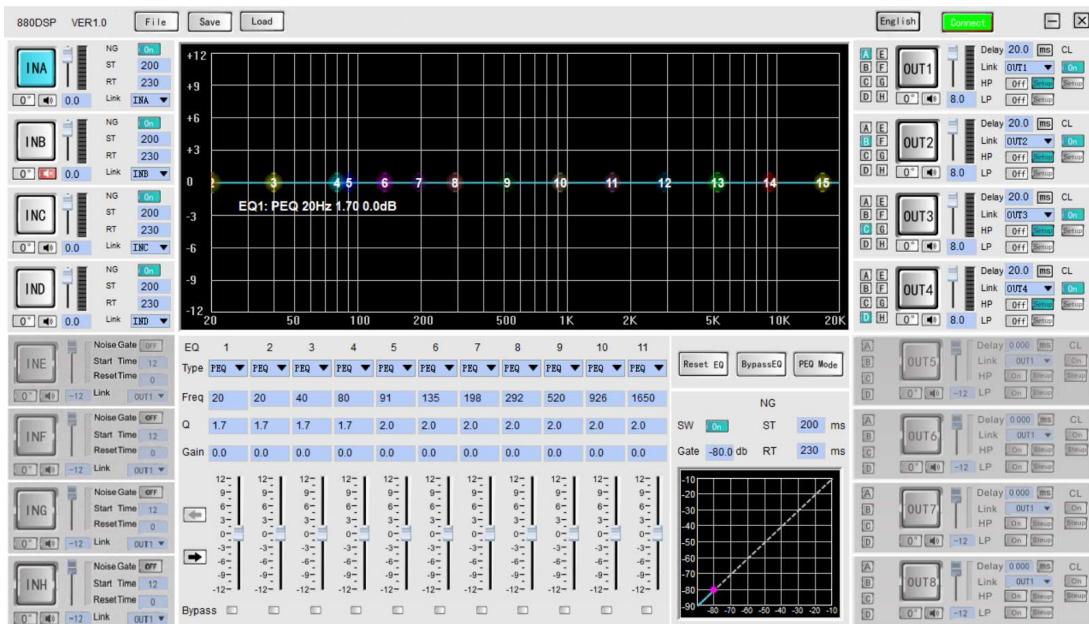
The software is a installation-free tool, just double click to start the software.

4.3 Software operation



Picture 4.3 Software Main Interface

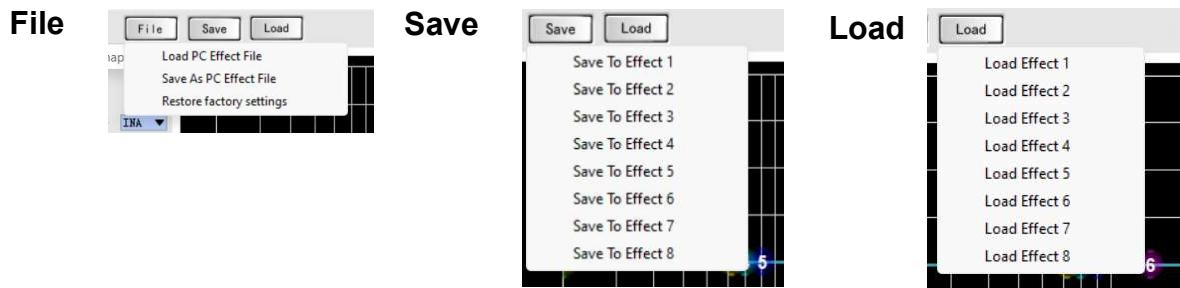
Chapter 5 Software introduction



Picture 5.0 Software Theme Interface

After connecting the device the software will show the available channels.

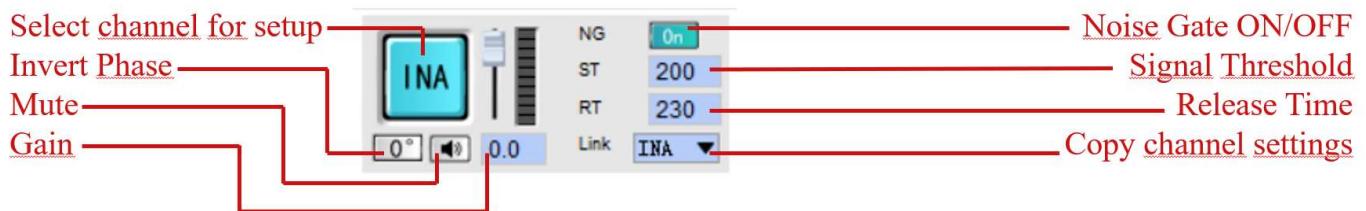
5.1 Menu



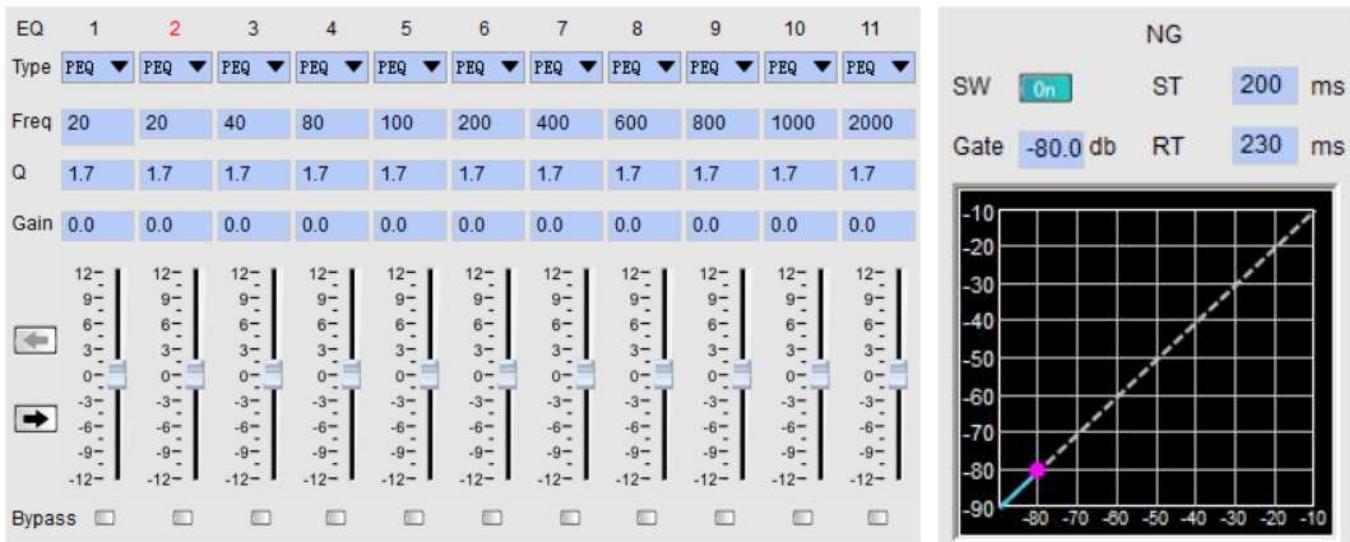
Chapter 6 Function Introduction

6.1 The main interface of the Input module.

Click on the channel selection button In_x , to edit the settings.

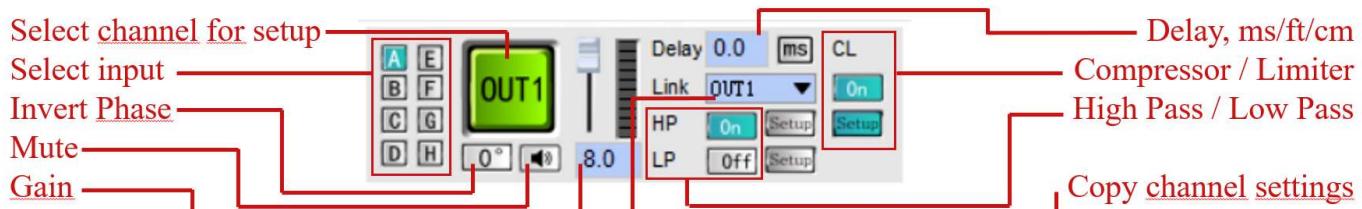


The software shows the corresponding setup screens:

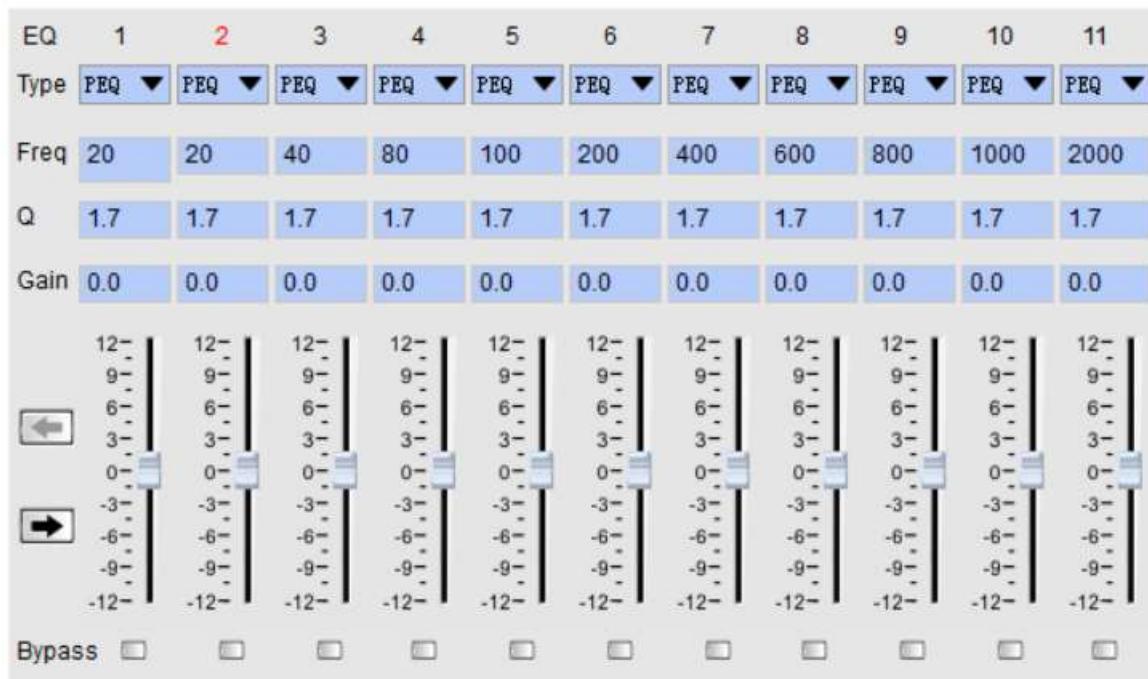
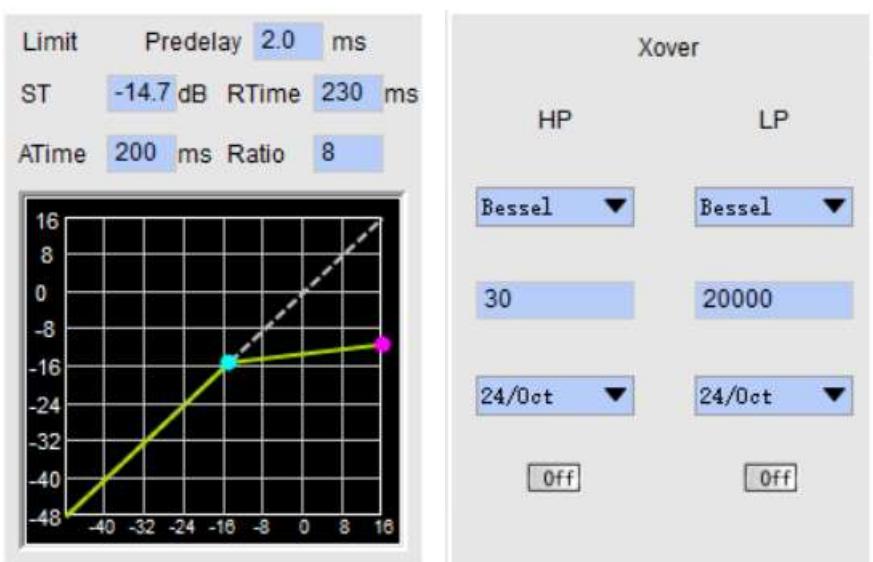


6.1 The main interface of the Output module.

Click on the channel selection button In_x , to edit the settings.



The software shows the corresponding setup screens:





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DATEQ International B.V.
De Paal 37, 1351 JG Almere, Netherlands
Tel: + 31 36 5472222

E-mail: info@dateq.nl
Internet: www.dateq.nl
Chamber of Commerce: 84615559