



# DATEQ DDA-2400DSP Amplifier User Manual

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## DATEQ DDA-2400DSP Amplifier User Manual



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## Introduction

### Output power

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

The amplifiers support constant pressure 100V (1000W@10 ). They monitor the status and DSP  $\Omega$ 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

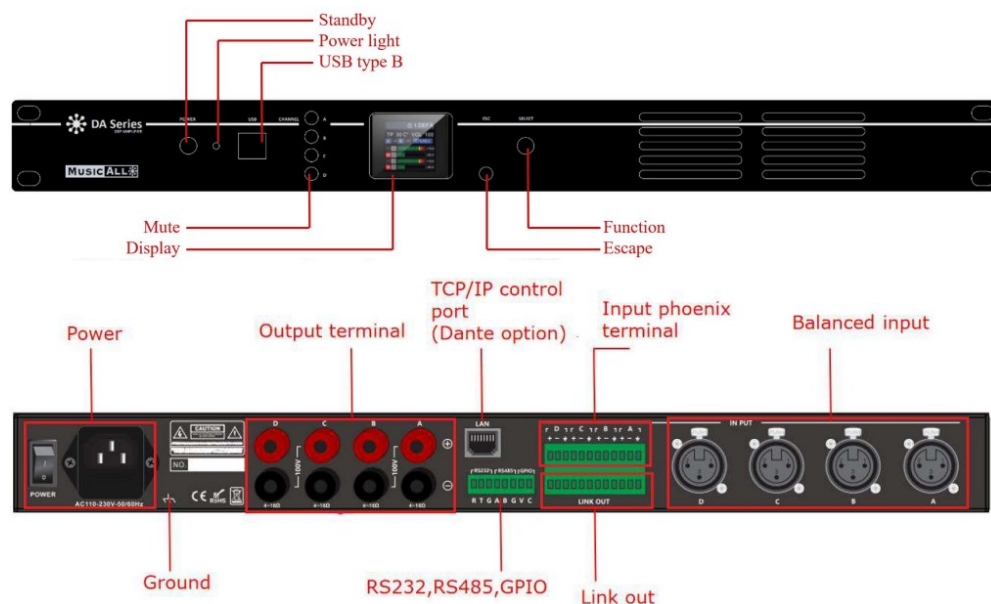
- dBu/6dBu sensitivity adjustment for each input
- emote standby (and wake) amplifier
- color IPS LCD display
- support balanced XLR input and unbalanced RCA input
- software selectable working mode : stereo, bridge, mono, free matrix
- control interface: USB and RJ45 by TCP/IP protocol, configuring RS232, RS485 central control interface, supporting GPIO external expansion control interface
- support Constant Pressure and Resistance : 100V, 8Ω, 4Ω

## 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                                                                                                                                                                                                                        |

## Functional Structure



## Display interface

### Main page

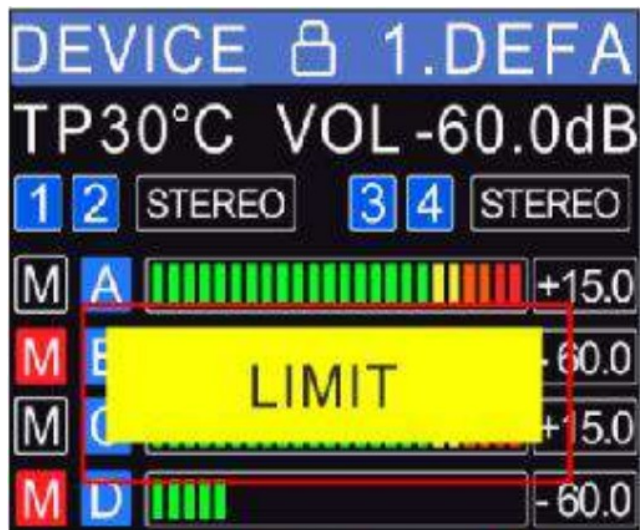
- Channel Signal



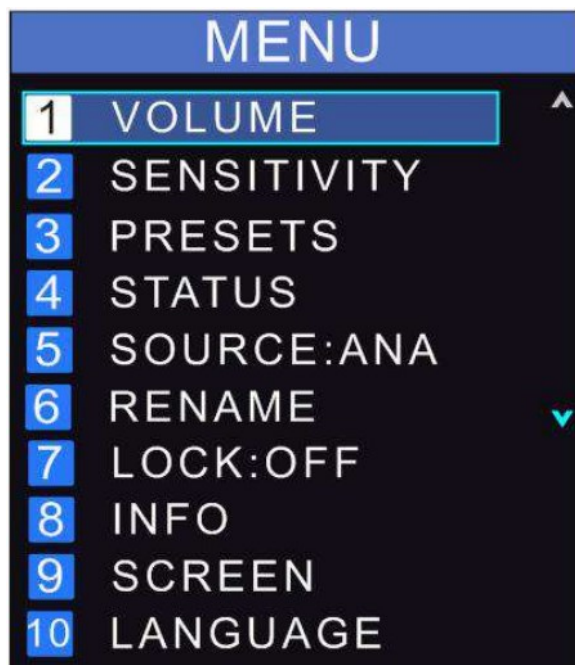
- Software Connected'



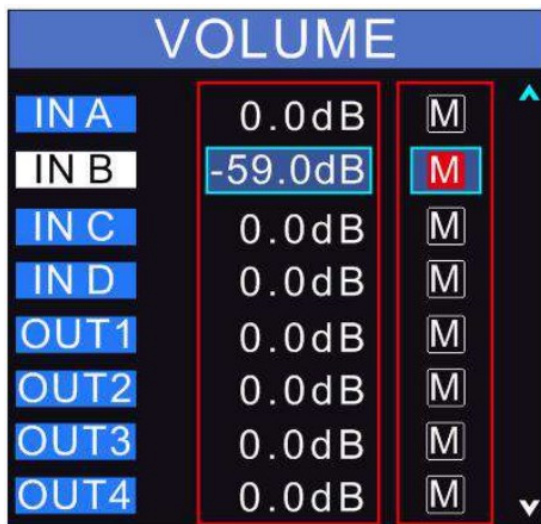
- Output limiter working



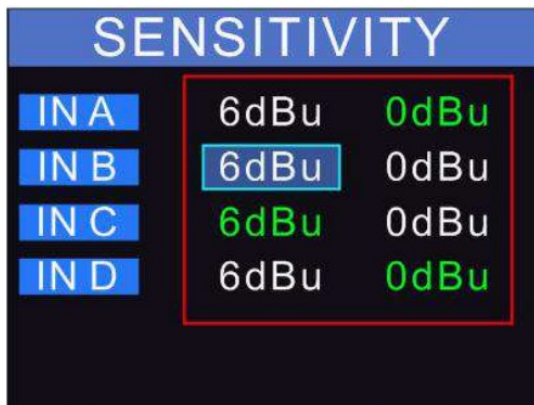
Menu page



- Volume Mute



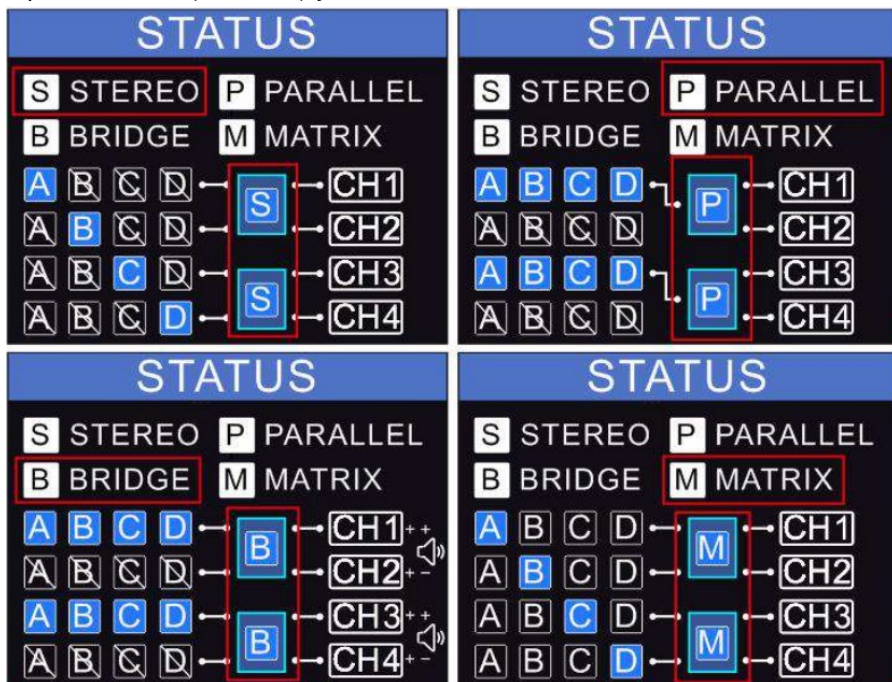
- Two Steps sensitivity







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.



## Software installation

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

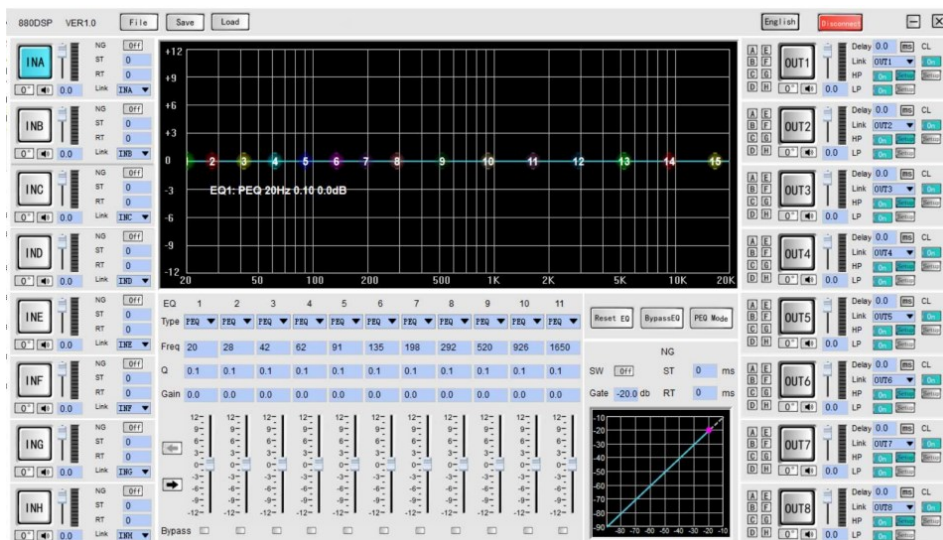
## Operating Environment

The software supports installation on Windows systems with win7/win8/win10/win11which must be operating with Microsoft.NET Framework 4.0.

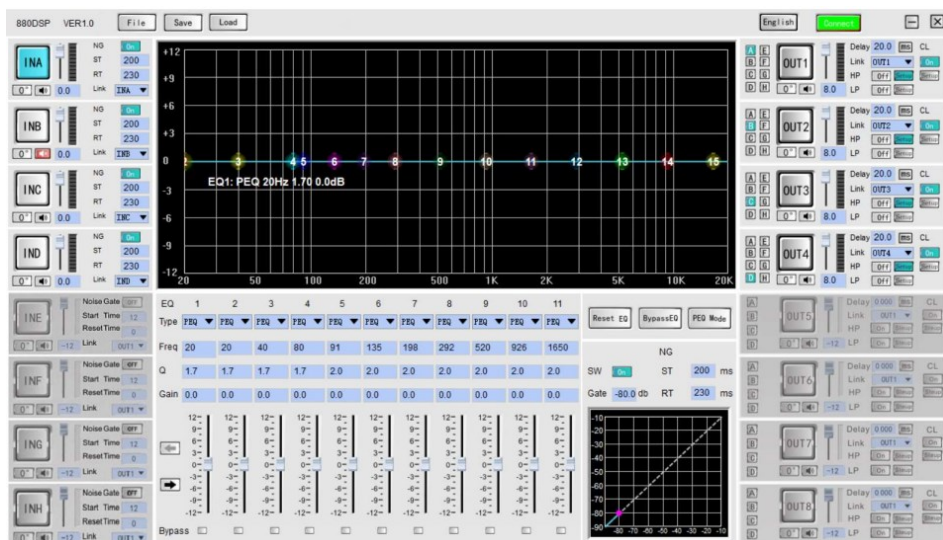
## Installation

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

## Software operation



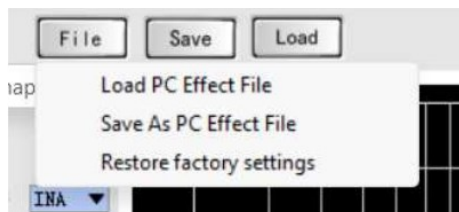
## Software introduction



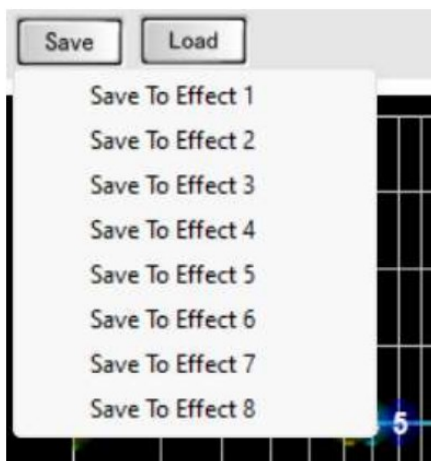
After connecting the device the software will show the available channels.

## Menu

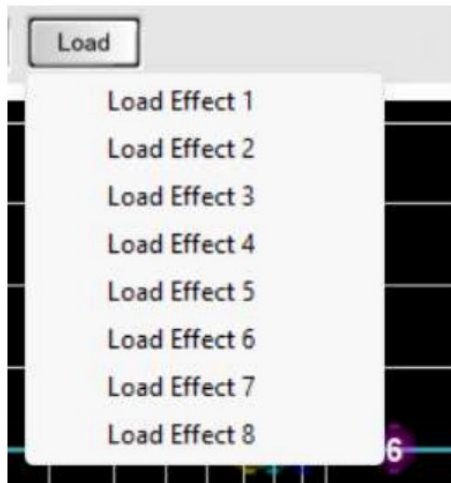
- File



- Save



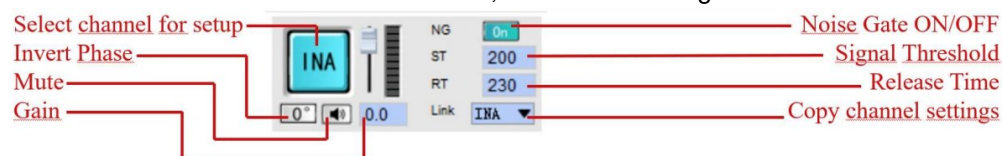
- Load



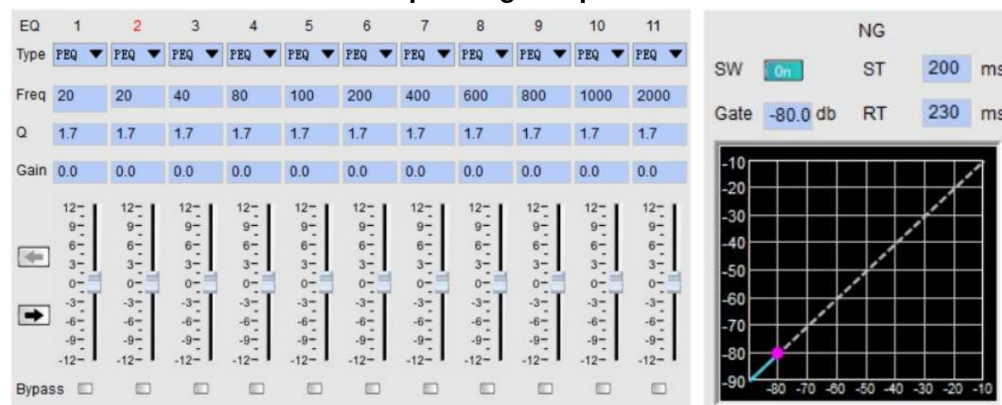
## Function Introduction

### The main interface of the Input module.

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



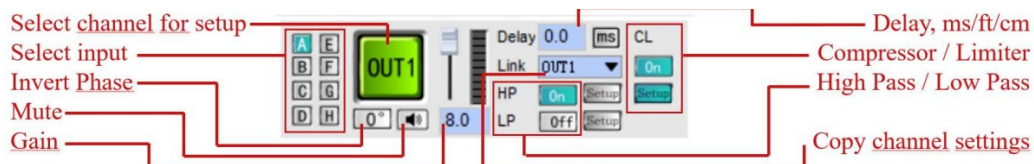
### The software shows the corresponding setup screens:



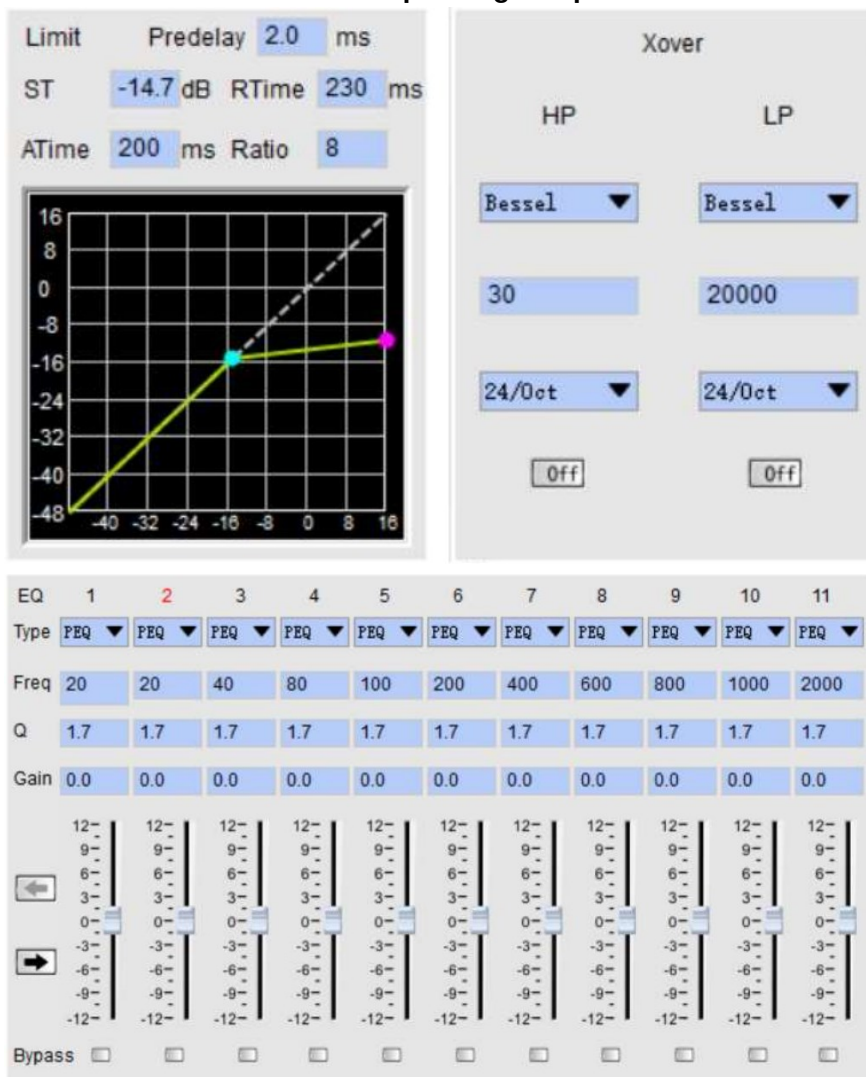
### The main interface of the Output module.

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





The software shows the corresponding setup screens:



**DATEQ International B.V.**  
 De Paal 37, 13511G Almere, Netherlands  
 Tel: + 31 36 5472222  
 Email: [info@dateq.nl](mailto:info@dateq.nl)  
 Internet: [www.dateq.nl](http://www.dateq.nl)  
 Chamber of Commerce: 84615559



Documents / Resources



[DATEQ DDA-2400DSP Amplifier](#) [pdf] User Manual  
DDA-2400DSP, DDA-4400DSP, DDA-2400DSP Amplifier, Amplifier