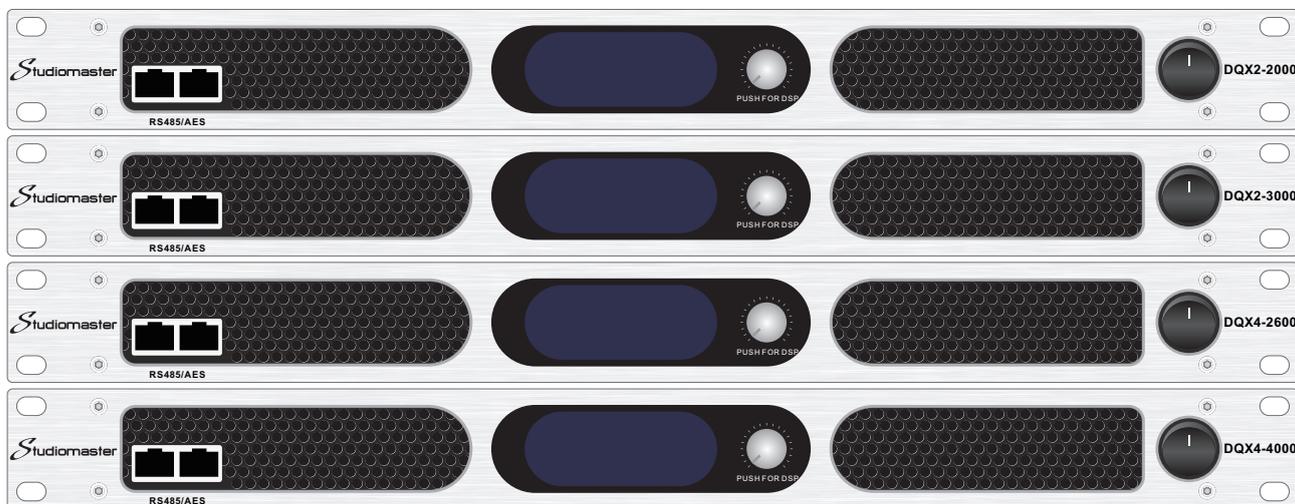




# Owner's Manual

## Professional Amplifier



## DQX SERIES

This manual does not contain all the information about the design, production, and changes of the equipment, and does not cover all the conditions that may occur during the installation, use and maintenance.

The information provided in this manual is accurate at the time of delivery of the equipment, it maybe has been changed because of the product upgrade.

# IMPORTANT SAFETY INSTRUCTIONS

---

- 1、 The equipment can only be inserted in the power outlet that is indicated by the manual. Otherwise it may cause fire or electric shock.
- 2、 Do not place the container with liquid or small metal objects on the equipment. Otherwise, the liquid or metal falling into the equipment may cause fire or electric shock.
- 3、 Do not place the weight (including the equipment) on the power cord. Otherwise, it may damage the power cord, which can lead to fire or electric shock.
- 4、 Do not place the power cord in the vicinity of the heater. Otherwise it may lead to melting, causing a fire.
- 5、 Do not scratch, bend, twist, stretch or heat power cord. Otherwise, it may damage the power cord, which can lead to fire or electric shock.
- 6、 Pull off the power plug from the power outlet, please grasp the insulation part of the plug, do not pull the cable. Otherwise, it may damage the power cord and the socket, which can lead to fire or electric shock.
- 7、 Do not use wet hands to touch the power plug. Otherwise it may cause electric shock.
- 8、 Please do not let water enter the equipment or make it affected with damp. Otherwise it may cause fire or electric shock.
- 9、 Please do not the use the equipment in the following occasions:
  - \_An unstable platform surface, such as a shaking table or an inclined plane.
  - \_A place where the air is exposed to high humidity or where dust accumulates.
  - \_Exposed to an overheated environment, such as a window in a closed car or in direct sunlight.
  - \_Exposed to splash oil foam, such as steam, stoves, boilers, humidifiers and other places.
- 10、 There are ventilation holes in front and behind the equipment, to avoid the impact of internal cooling, do not block the ventilation holes.
- 11、 Please keep enough space around the equipment. Reserved space should not be less than: side 5cm, behind 10cm, and air follow unblocked.
- 12、 If you want to move the equipment, please unplug the power plug and unplug all the connecting cables. Otherwise, it may damage the cable, which can lead to fire or electric shock.
- 13、 Attachment of the equipment (such as machine foot, manual bag, desiccant, etc.) please put them in the place where children can not get them.
- 14、 Do not open the equipment cover. Otherwise may lead to electric shock. If you think the equipment needs to be repaired or maintained, please contact the agent.
- 15、 Do not unauthorized change the equipment. Otherwise, it may result in abnormal, fire or electric shock.
- 16、 If lightning strikes, please close the power switch as soon as possible, and unplug the power cord.
- 17、 The equipment output signal may be high voltage, there is a risk of electric shock, please use a dedicated connection header.
- 18、 Connect the speakers to the amplifier output socket, can only use special speaker cable. Use of other cables may cause fire.
- 19、 When connecting to the equipment, please turn off all the audio equipments and speakers.
- 20、 Before turning on the equipment, be sure to turn the volume knob to the minimum. Otherwise, a sudden burst of sound may damage your hearing.
- 21、 If you will not use the equipment for a long time, please unplug the power cord from the AC power outlet. Otherwise it could cause a fire.
- 22、 If the power cord is damaged (such as cut off or bare wire), get the replacement from the agent. Or continue to use the equipment may cause fire or electric shock.
- 23、 If the equipment is shell damage or falling from high, please immediately turn off the power switch, and unplug the power cord, and contact the agent. Otherwise it may cause fire or electric shock.
- 24、 When any abnormal, such as smoke, odor, etc., please immediately turn off the power switch, unplug the power cord, and contact the agent. Otherwise, it may lead to fire or electric shock.

# 1 Welcome

Thank you for your trust, buy our class D power amplifier!

Our company focuses on class D power amplifier. The high level of R&D team, experienced production team and high-quality technical support team ensure that our products used in a variety of environment are stable and reliable, and bring you a pleasant experience.

In order to maximize the efficiency of the equipment and bring you a pleasant experience, please read this manual carefully.

## 1.1 Features

- a、 90~260VAC / 50~60HZ Wide range power supply.
- b、 high-definition audio DSP .
- c、 Analog and AES3 signals can be received.
- d、 RS485 serial communication port,for amplifier control and monitoring.
- e、 Modular design and maintenance is simple.
- f、 2, 4 channel design,Very suitable for touring.

## 1.2 Function

- a、 Audio input:AES3 digital audio and analog audio selectable.
- b、 Built-in 4X4 audio matrix.
- c、 Pushbutton for fast mute.
- d、 Mode: stereo, mono, bridge, one in four out.
- e、 15 segment parameter EQ.
- f、 Filter for each channel: direct,low pass,band pass,high pass,all pass.
- g、 Delay for each channel:0~65000us delay (step 1us) .
- h、 Peak voltage limiter,Over temperature,Short protection.
- i、 Over load limiter.
- j、 Under voltage, DC protection.
- k、 Status to monitor:temperature,voltage,current,fault.
- l、 RS-485 address and Baud Rate settings;
- m、 16 memory spaces for parameter save and recall.

## 1.3 How to use this manual

This manual provides the basic information for the proper installation and use of the equipment, and does not cover all the conditions that may arise in the actual project. For more information, please visit our website or contact our technical support, system installation personnel or agents.

Please take care of the sales order or invoice for your purchase of this equipment. You need to show the credentials when the product is guaranteed.

# 2 Environmental protection, energy saving, cost saving

Thank for the high efficiency class D power amplifier and switching power supply technology, the energy efficiency ratio of the equipment is more than 80% in routine use, more than 90% in laboratory.

Thank for the active power factor correction technique, the equipment can be used all over the world, minimizing the interference to the power grid and improving energy utilization efficiency.

### 3.1 Check out of the box

Advantages of high efficiency:

- \* Low working temperature, reliability will be improved obviously.
- \* The size and weight are only 1/3 of tradition amplifier.
- \* The cost for transportation, handling, installation will reduce obviously.

\* Saving energy, reducing operating costs

\* Environmental protection

Aluminum, copper and steel are greatly reduced, saving energy and resources; reduce transportation emissions 70%.

Climate warming is a challenge to the world, energy saving and emission reduction are effective measures to solve the climate.

We are committed to providing environmental friendly products. For blue sky , white clouds, green mountains and rivers ,let us act together!

## 3 Installation

### 3.1 Check out of the box

Open packaging and check whether the equipment is damaged in the transportation .

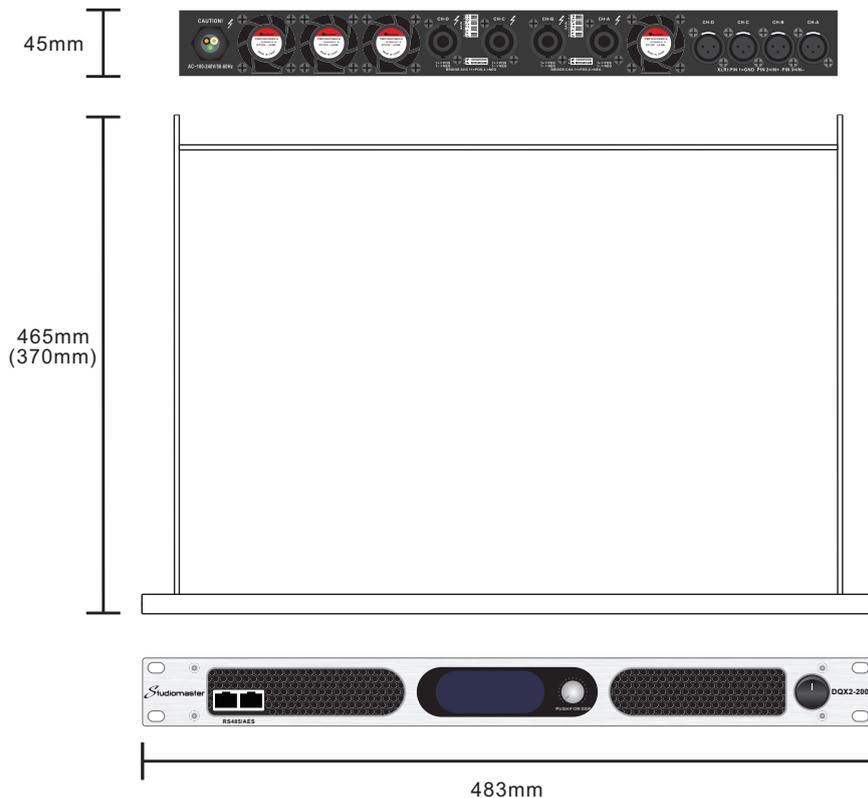
If the equipment is damaged, please inform the shipping company immediately, only you have the right to request compensation for shipping damage. Please save the packing case as evidence of damage for the shipping inspection. We will provide the necessary assistance for you.

It is recommended that you save all packaging materials for use in the transportation equipment. Do not transport the equipment in the absence of an outer package, so as not to damage the equipment.

Packing list:

amplifier	1 pcs	User's manual	1 pcs
Power cord	1 pcs		
Machine foot	4 pcs		

### 3.2 Outline dimensions

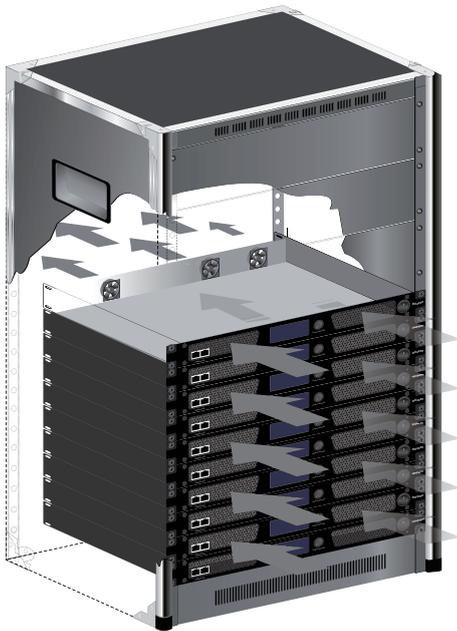


### 3.3 Installation preparation

	<p>Warning: before installation, please confirm that you see and read the safety warning.</p>
	<p>Before installation, make sure that the power cord is not connected to the power outlet; The power switch is turned off; The volume knob is completely.</p>
	<p>The equipment is high power, around a strong magnetic field. Keep the signal sensitive equipment away (preferably not less than 20cm), otherwise may produce noise.</p>

For the normal operation, following parts is needed:

- 1、 Input connection cable
- 2、 Output connection cable
- 3、 Ethernet cable (for Ethernet interface power amplifier)
- 4、 Cabinets or equipment mounting rack



### 3.4 Cooling instructions

The cooling mode of the equipment is as follow: the cold air is sucked through the ventilation hole of the front panel, and the heat are taken out from the rear panel. In order to ensure good heat dissipation, please put the equipment in the 0°C~40°C environment, and ensure that the front and rear panel airway open. If the temperature exceeds 85 degrees, output voltage will be reduced, avoid excessive temperature rise. If the temperature continues rise up to 90 degrees, the power amplifier will be shunted down, when the temperature dropped to a safe temperature, the equipment will restart automatically.

After working for some time, if the cooling effect is not good, please turn off the equipment and remove the dust net cover to clean up the dust.

### 3.5 Power cord

	<p>The grounding end of the power cord must be grounded, otherwise there is a risk of electric shock!</p>
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The power cord must have sufficient current capacity, AC power supply voltage and frequency must be in range of ±10% of the nominal value.

### 3.6 Input / output line

Common knowledge:

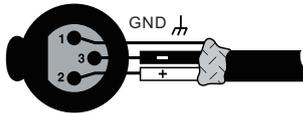
Try to use the shielded wire, the higher density shielding layer is the better.

Try to select balance connection for input, to reduce noise interference.

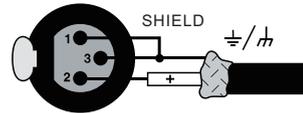
Selection of non balance connection, the shorter the better, preferably not more than 3m.

The weak signal line should avoid to parallel with the power line and the power output line, otherwise it might produce noise.

Before changing any connection, please turn off all equipments. Otherwise, it may cause damage to hearing and speakers.



Balanced analog input



Non balanced analog input connection

## 4 Operating instructions



Before installation, make sure that the power cord is not connected to the power outlet; the power switch is turned off; the volume knob is completely closed (counter clockwise to the limit).

### 4.1 Protection speaker

Clipping not only makes sound distortion, but also damages the tweeter, you can reduce the input signal to avoid clipping.

Strong sub signal will cause the speaker burned. The high level low frequency signal caused by the falling of the microphone is a typical sub acoustic signal. One of the following ways to prevent sub sonic signals should be used:

- a. Installing a high pass filter between the mixer and amplifier.
- b. Turn on the high pass filter in the mixer. Without affecting the use, the filter frequency is set as high as possible. For example, for the music signal is set to 35Hz, for the microphone set to 75Hz.

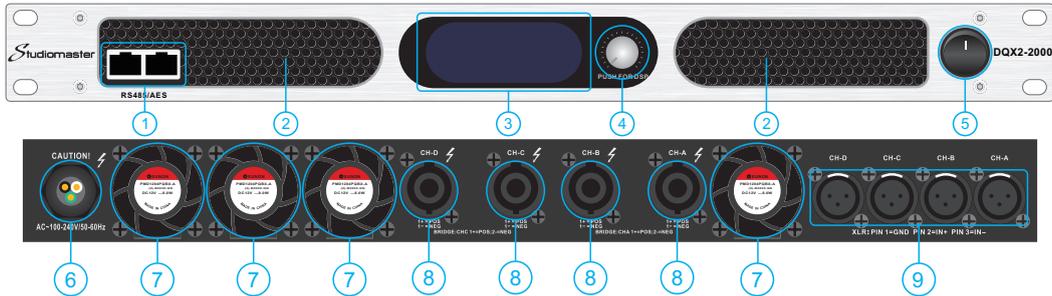
### 4.2 Attention

In order to achieve the best performance and the highest security, please pay attention:

- 1、 Before use, you need to configure the amplifier, including the input and output lines. Improper wiring will lead to the equipment can not work properly. For information about connection and configuration, please refer to the "installation" section of this manual.
- 2、 Be careful when connecting, selecting the input signal and controlling the output level. This can avoid unnecessary trouble.
- 3、 Do not connect the ground wire of the input and output cable together . This will form a ground loop and cause oscillations.
- 4、 Do not connect the output cable to the power supply, Otherwise it may cause electric shock.
- 5、 Without authorization, modify the circuit will be dangerous, and the agents will not provide any services.
- 6、 Do not use the amplifier in the SIG LED continuous flashing yellow.
- 7、 Do not make mixer overload, otherwise it will send clipping signals to the amplifier. Power amplifier will accurately reproduce such signals, the speaker may be damaged.
- 8、 Do not use the amplifier under the condition of lower than the nominal load. Too low load may cause amplifier output protection and premature clipping ,damage the speaker.
- 9、 When the amplifier is turned on, the output port may be fatal.

**Important note: our company is not responsible for the damage caused by excessive use.**

### 4.3 Operation



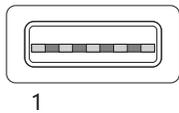
1. RS485 serial communication port, AES3 digital audio input port. 2xRJ45 port, the port is defined as follows:

RJ45 PIN#	PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8
Wire Color	White/Green	Green	White/Orange	Blue	White/Blue	Orange	White/Brown	Brown
Signal	RS485_A	RS485_B	AES1/2+	AES3/4+	AES3/4-	AES1/2-	Reserved	Reserved

◇Instructions for connecting amplifier and computer(RS485):

Hardware preparation:

- Recommended configuration of computer: Windows XP and above, Windows 10 recommended. Display resolution greater than 1366 x 768;
- USB-RS485 adapter: it is recommended to adopt the USB to serial port scheme of CH340, 485half duplex communication; and correctly install the USB to serial port driver; (the following figure shows the common adapter, only connect two wires a and B to the RJ45 port of power amplifier)

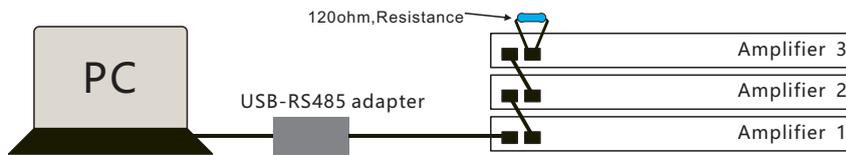


Item	Pin definition
1	A
2	B
3	GND
4	GND
5	+5V

- Adapter to RJ45 port of power amplifier: Category 5 line and above.

◇Online steps:

- Connect the hardware as shown in the figure below:



Connection precautions:

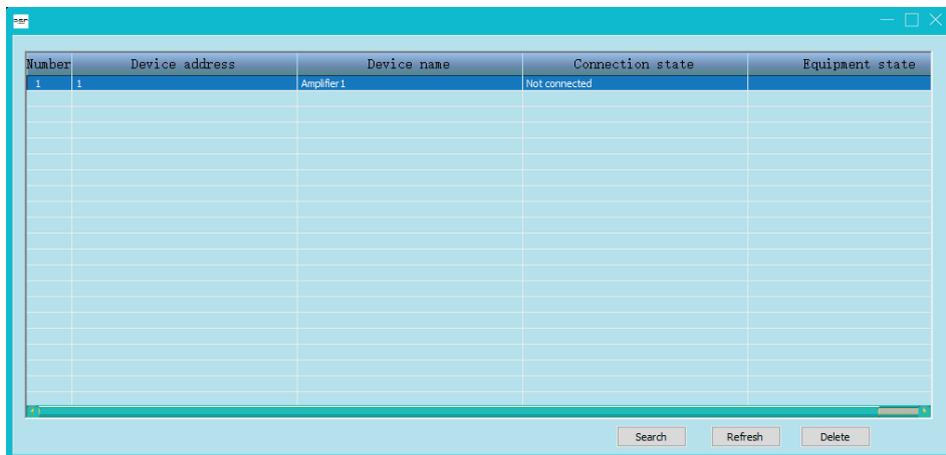
- In order to ensure the normal communication, the RJ45 port at the end of the bus needs to be equipped with a 120ohm impedance matcher;
  - The line sequence of USB-RS485 adapter and RJ45 port of power amplifier shall be the same, RJ45 Pin1 = 485 A, RJ45 Pin2 = 485 B;
- The 485 address and baud rate of the machine can be set through the front panel rotary

b、 encoder, as shown in the following figure;



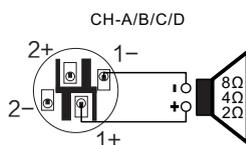
Setting considerations:

- I、 485 address setting range: 1-255, 485 address of equipment under the same bus cannot be repeated;
  - II、 The baud rate range is 1920-115200, and the baud rate of the equipment under the same bus shall be set to be consistent; the baud rate shall be set according to the transmission distance and rate. The lower the baud rate is, the farther the transmission distance is. The higher the baud rate is, the closer the transmission distance is. It is recommended to set 3840;
- c、 Open the upper computer software of the computer, click "search", the amplifier under the bus will be displayed in the list, double-click or right-click to enter the power amplifier configuration interface;



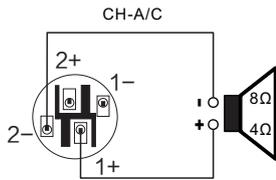
- 2、 Cooling Vents:Front-to-rear forced airflow through foam dust filter.
- 3、 LCD Display Screen.
- 4、 Control Button:turn for previous and next ,push for enter.
- 5、 Power Switch:ON/OFF . It is ON to press "I" down .
- 6、 Power cord:Configuration 3×1.0mm<sup>2</sup>, 3×1.5mm<sup>2</sup> or 3×2.5mm<sup>2</sup> cord according to power .
- 7、 Fans:Provide front-to-back forced airflow for cooling.
- 8、 Output sockets.

To wire stereo or mono speakers to the Output sockets, use below method:



To wire Bridge speakers to the Output sockets, use below method:

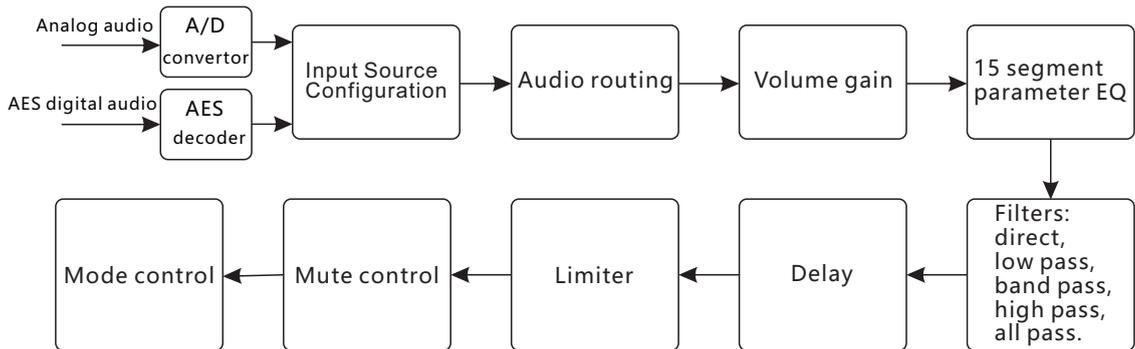
To wire Bridge speakers to the Output sockets, use below method:



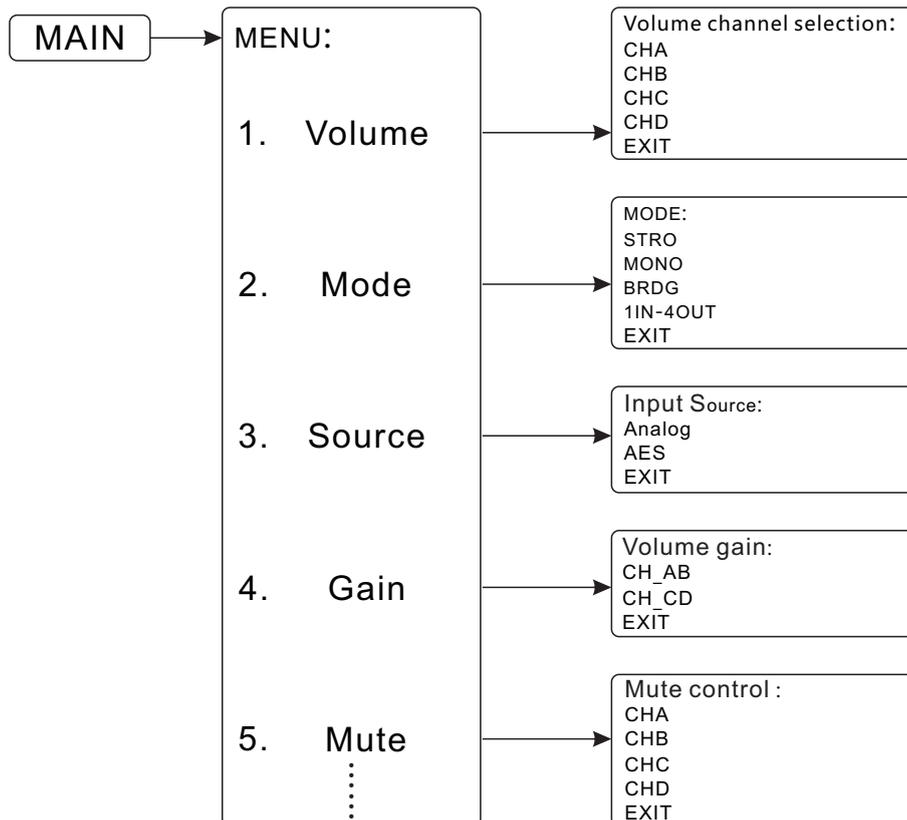
9. Balanced Analog XLR Inputs:3-pin female XLR connector for each channel.

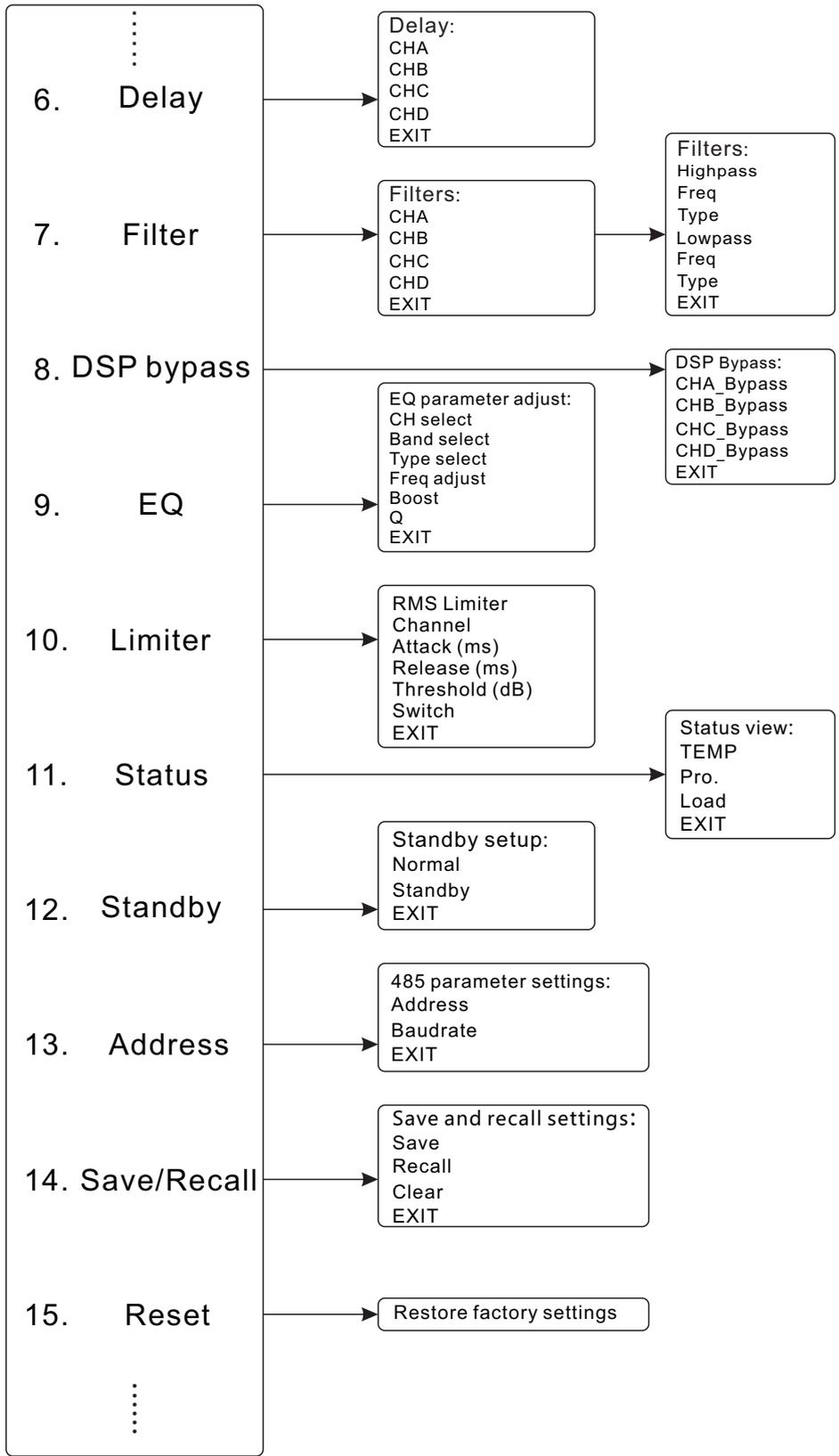
## 5 Advanced Operation

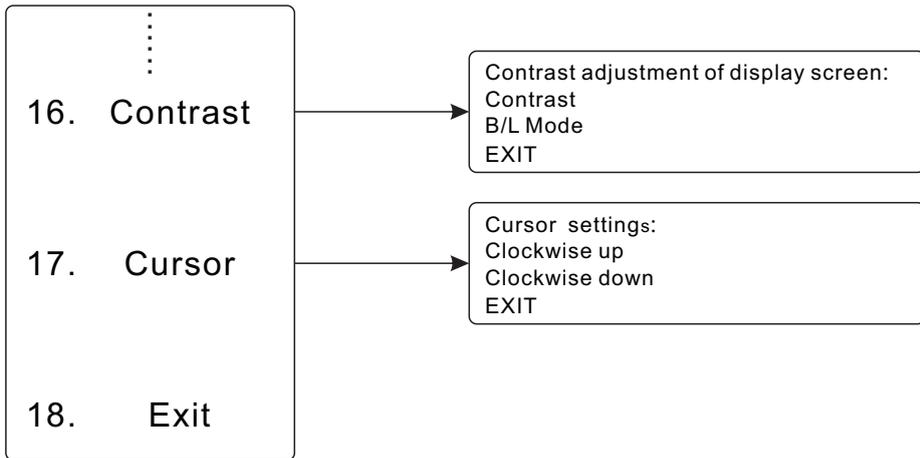
### 5.1 DSP signal processing flow



### 5.2 MENU TREE

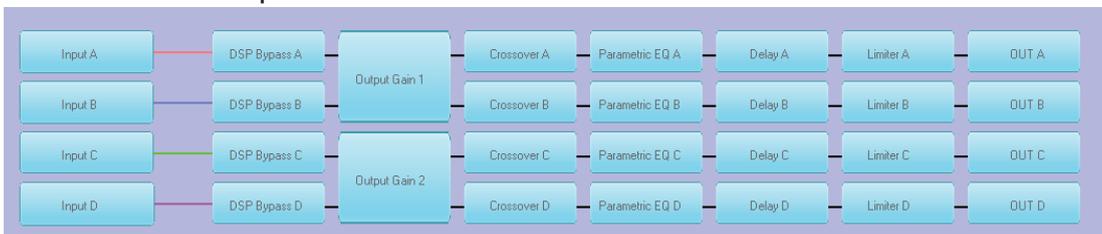






## 6 Software settings

### 6.1 software flow pattern



Click on the corresponding process box to make corresponding parameters and process settings.

Click on the following flow chart:

- Input A\Input B\Input C\Input D
- Output Gain 1\Output Gain 2
- OUT A\OUT B\OUT C\OUT D

The parameters are set as follows:



### 6.2 Volume adjustment and MUTE

Volume independent adjustment of channels A, B, C and D (-80dB~0dB)

MUTE independent adjustment of channels A, B, C and D (ON\MUTE)



### 6.3 Gain adjustment

Gain 1 control the gain of channel A and B, the gain range is shown in Tab 9.  
 Gain 2 control the gain of channel C and D, the gain range is shown in Tab 9.

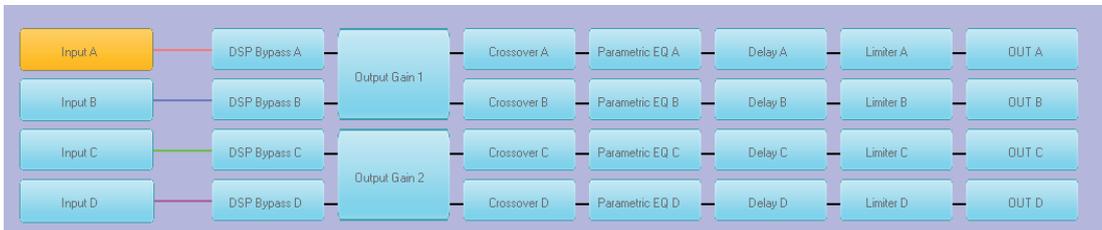


### 6.4 MODE

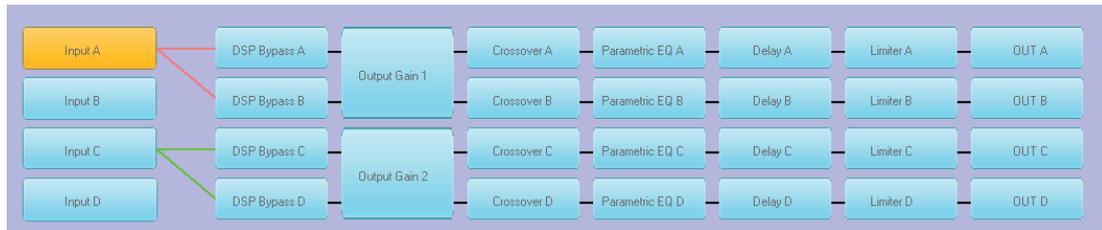
Can be set: STRO (Stereo), MONO, BRGD (Bridge), ONE IN (1 in 4 out) four modes.



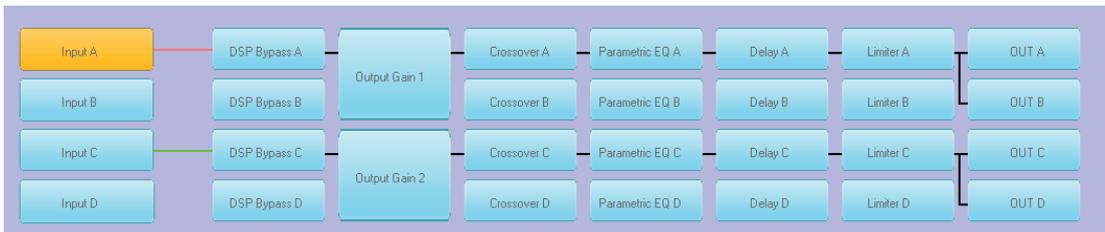
The flow chart of each channel is as follows  
 STRO(Stereo)



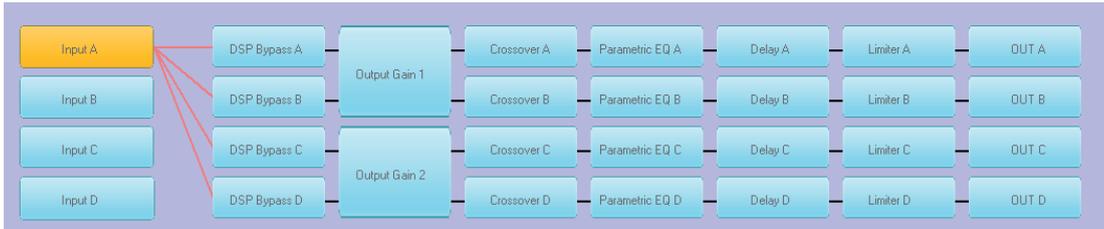
MONO



BRGD(bridge)

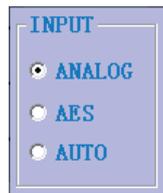


ONE IN(1 in 4 out)

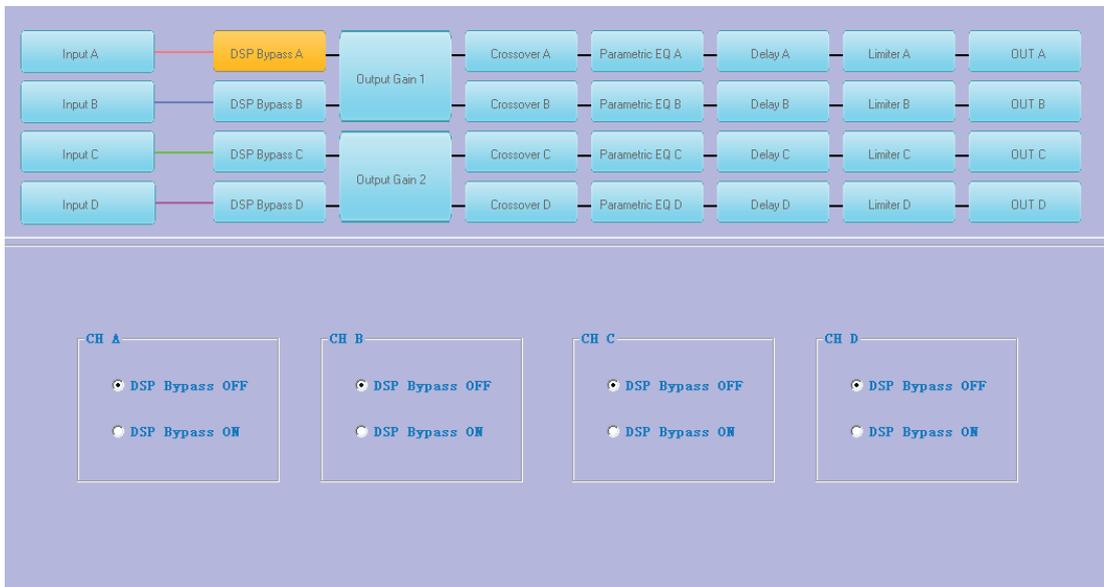


6.5 INPUT(Signal source selection)

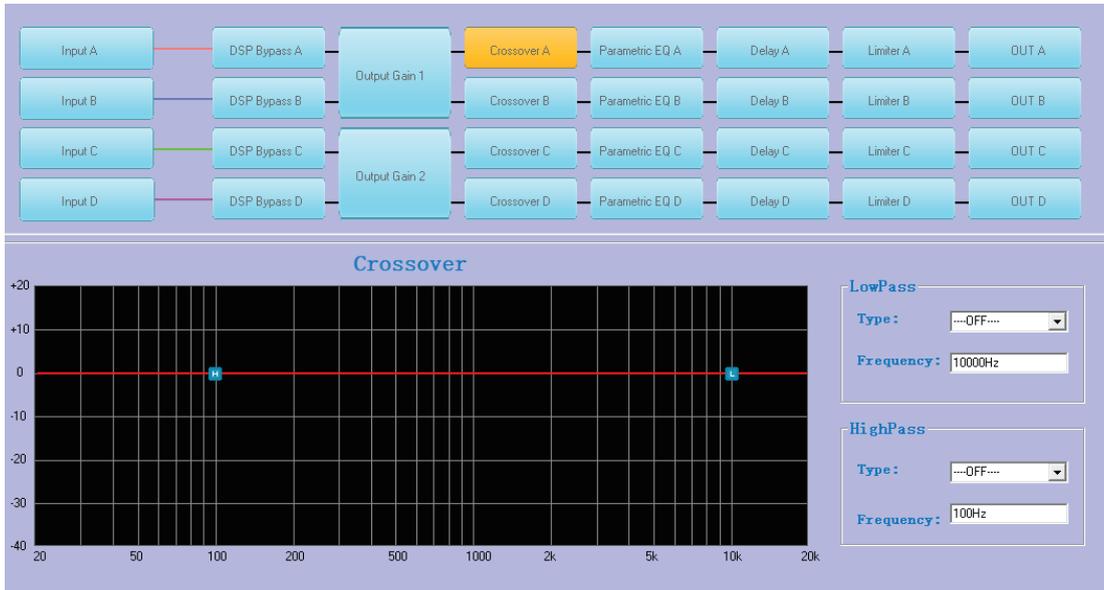
Options: Analog (analog audio input), AES (AES3 digital audio input), AUTO (digital audio priority, automatic switching between analog and AES3)



6.6 DSP Bypass



## 6.7 Crossover

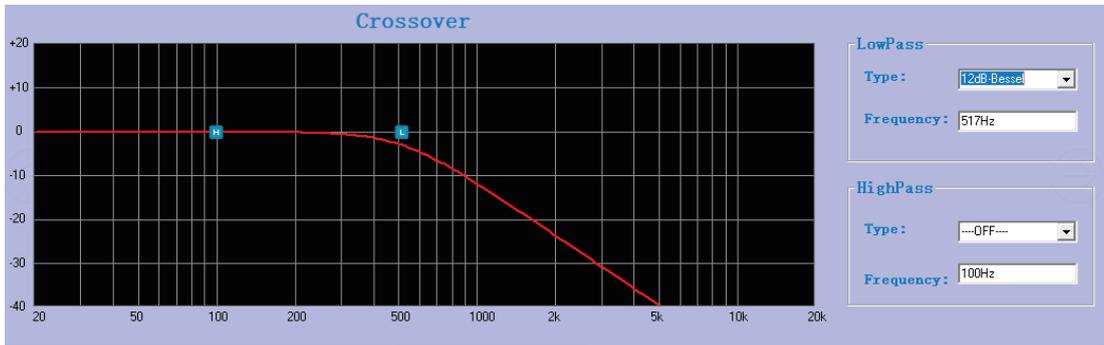


Crossover-Click the image to change the high and low frequency (20Hz-20KHz).

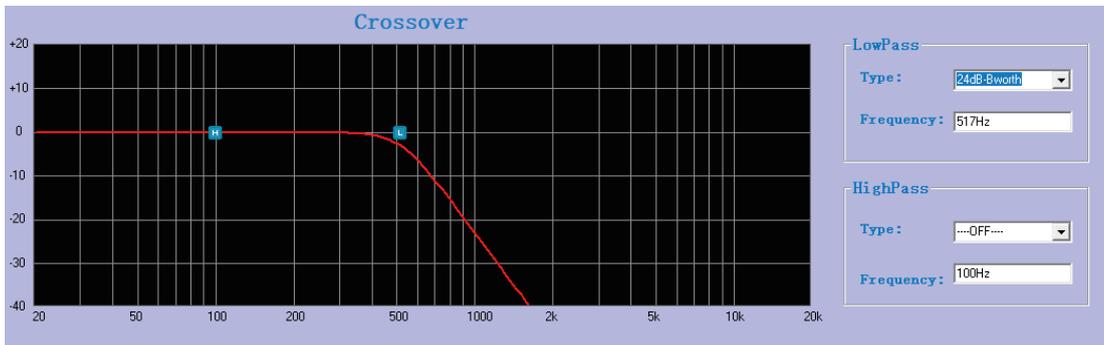
### 6.7.1 LowPass(low pass filter):

Low pass filter types (12\24\48dB-Bworth, 12\24\28dB-Bessel, 12\24\48dB-Lnkwtz)

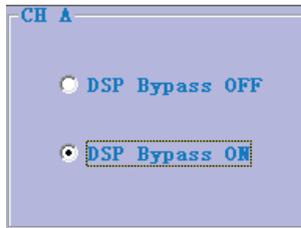
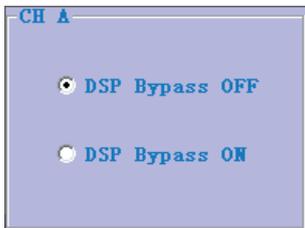
#### 12dB-Bworth



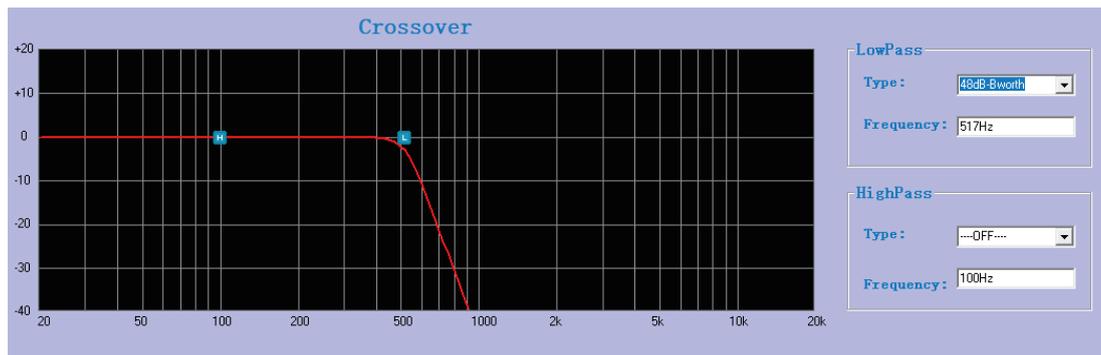
#### 24dB-Bworth



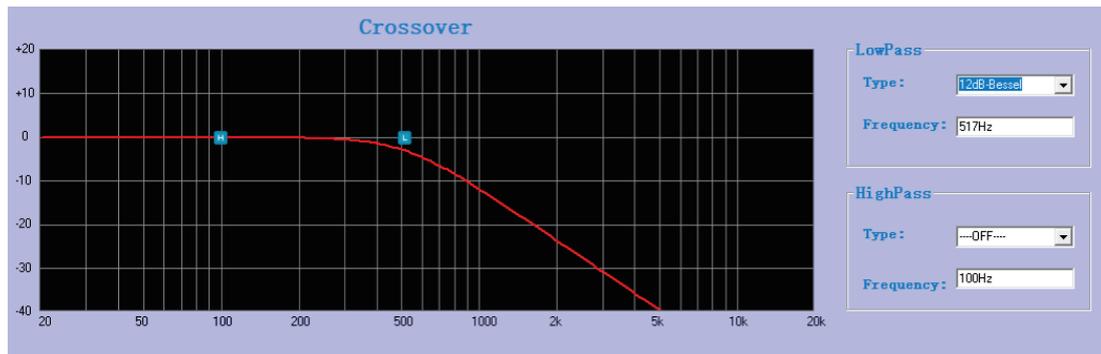
DSP Bypass switch



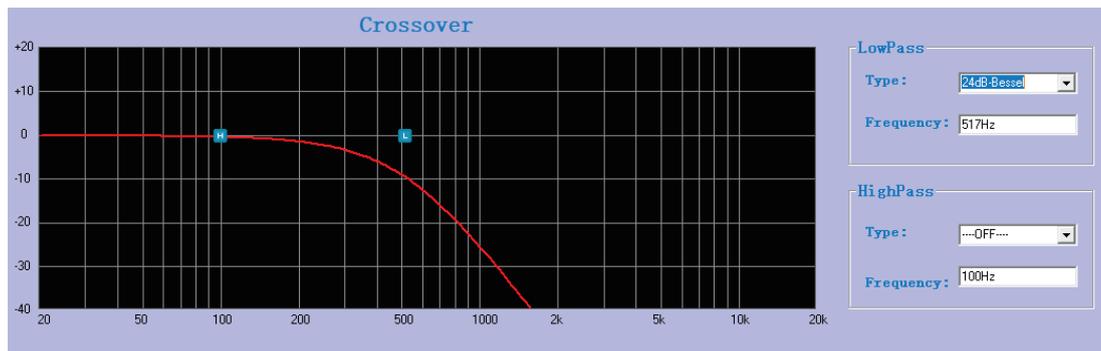
48dB-Bworth



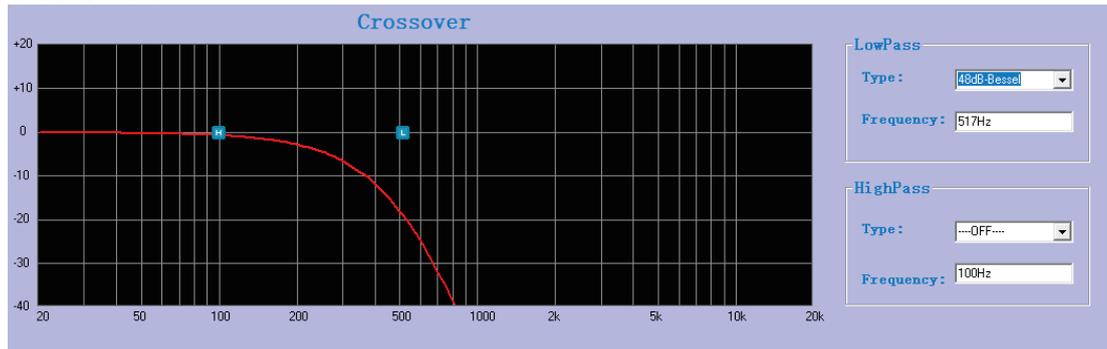
12dB-Bessel



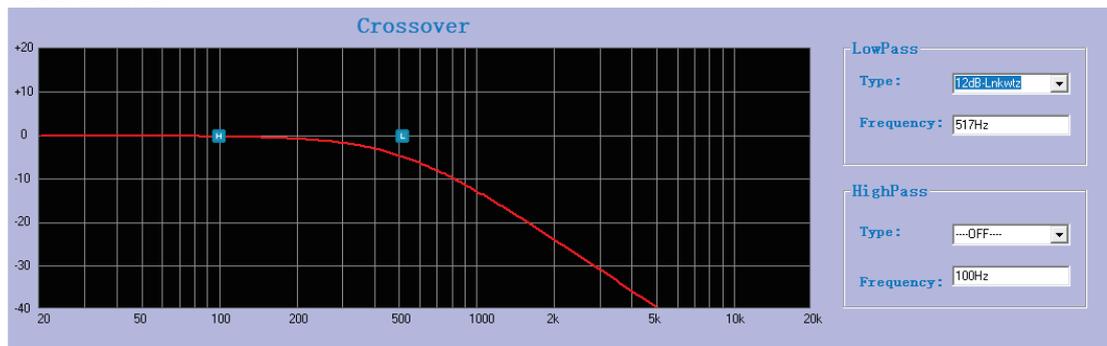
24dB-Bessel



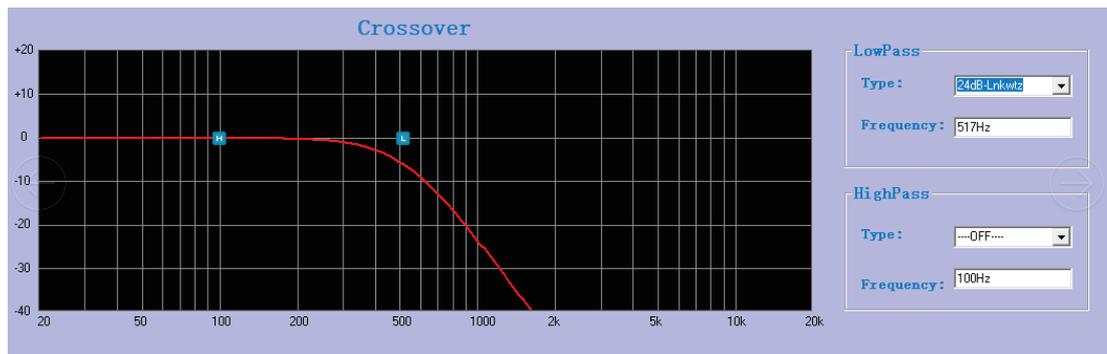
## 48dB-Bessel



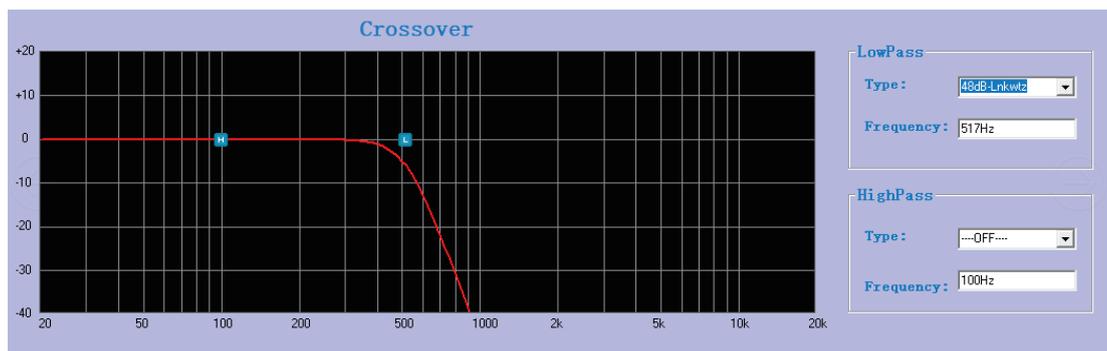
## 12dB-Lnkwtz



## 24dB-Lnkwtz



## 48dB-Lnkwtz

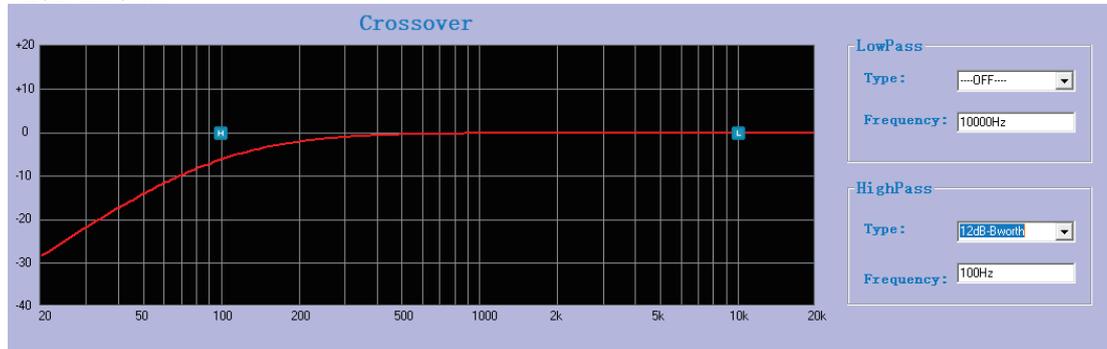


Frequency-Input low pass filter frequency (20Hz~20kHz)

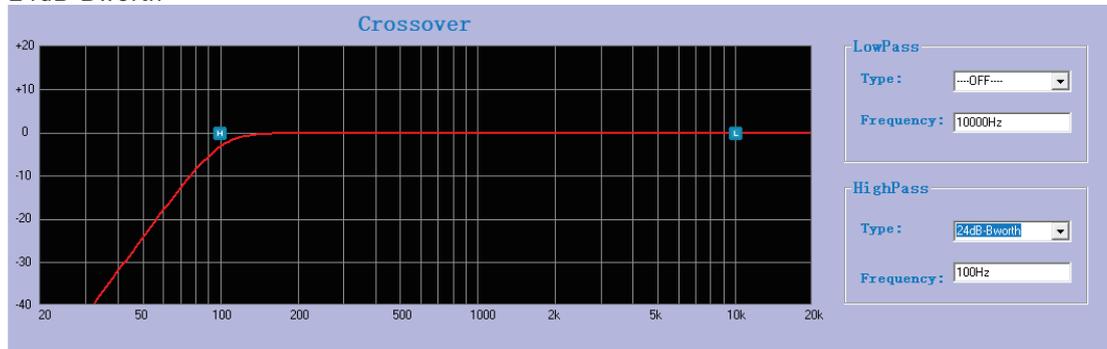
### 6.7.2 High Pass(High pass filter):

High pass filter types (12\24\48dB-Bworth, 12\24\28dB-Bessel, 12\24\48dB-Lnkwtz)

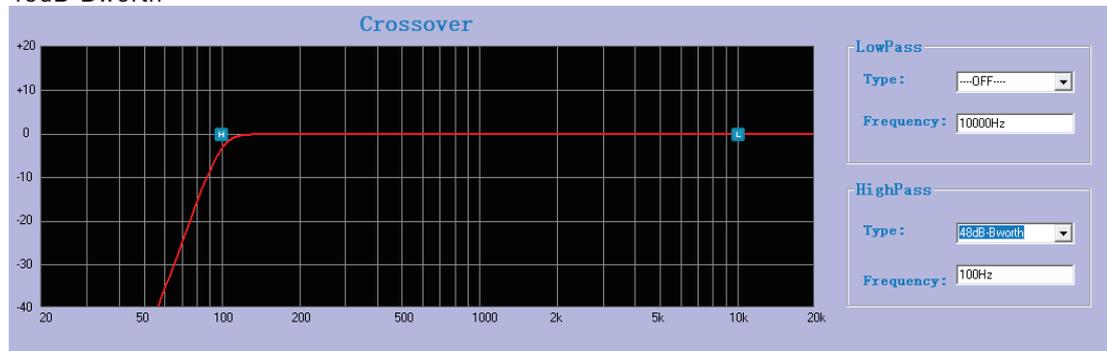
12dB-Bworth



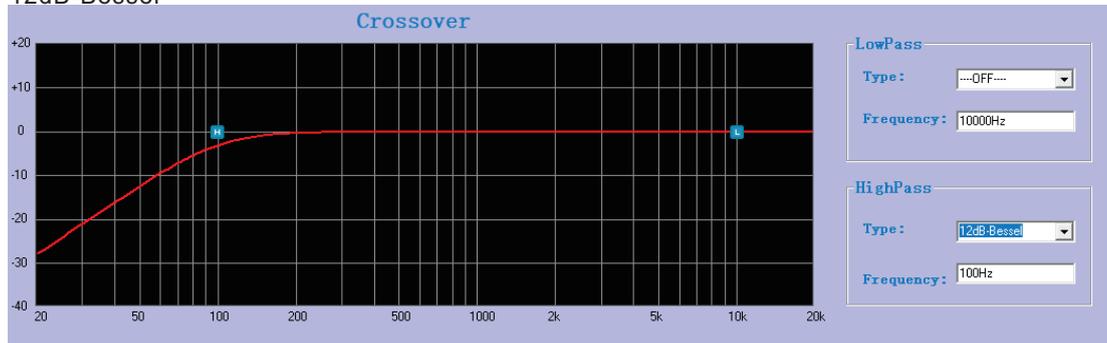
24dB-Bworth



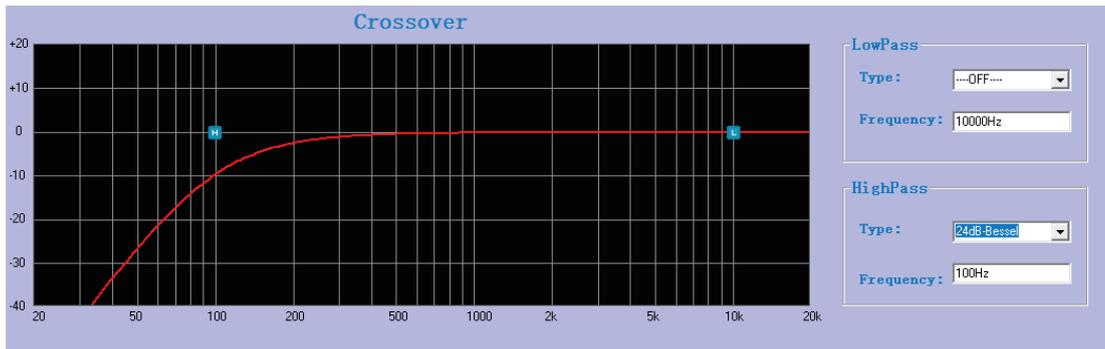
48dB-Bworth



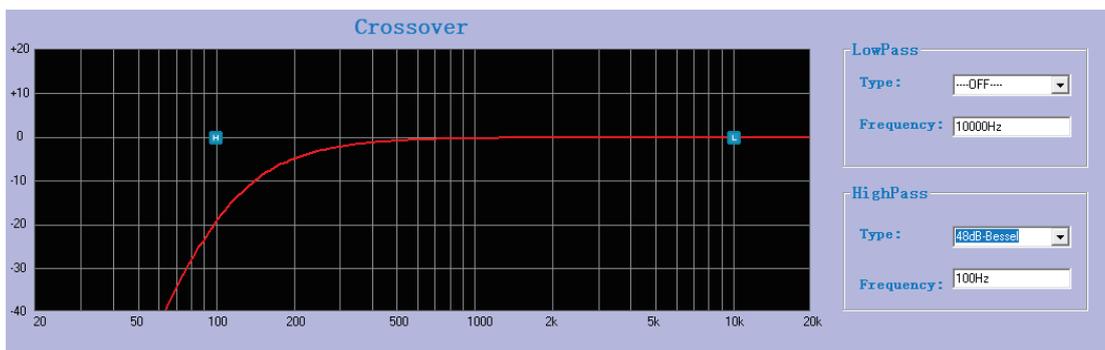
12dB-Bessel



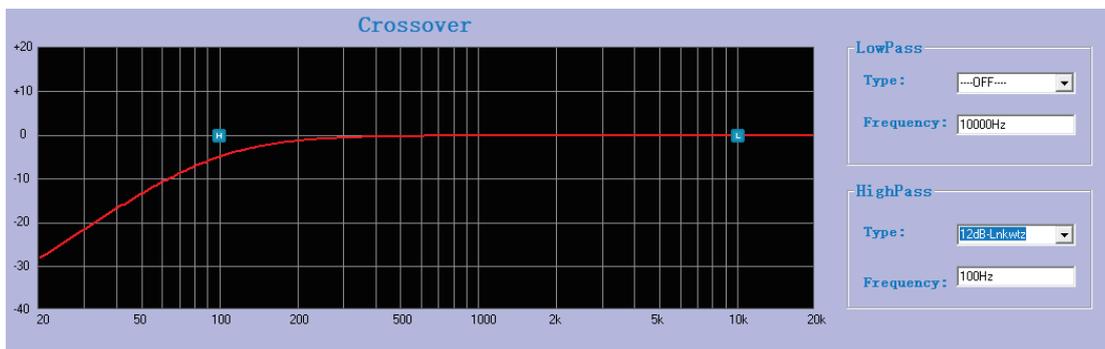
## 24dB-Bessel



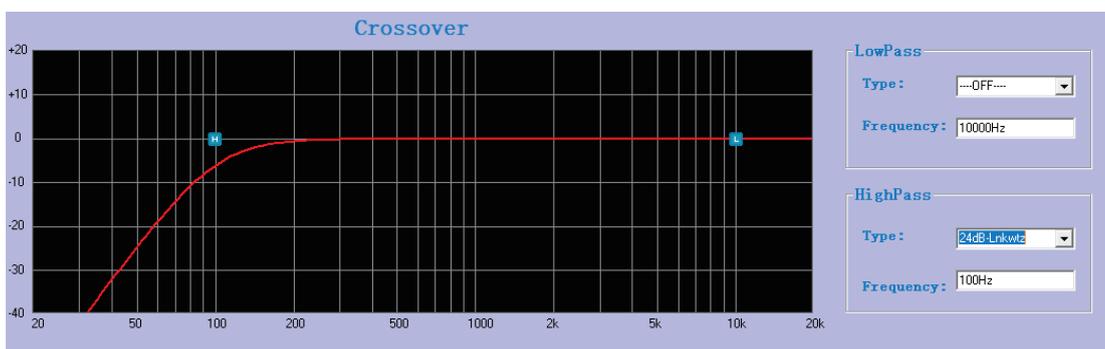
## 48dB-Bessel



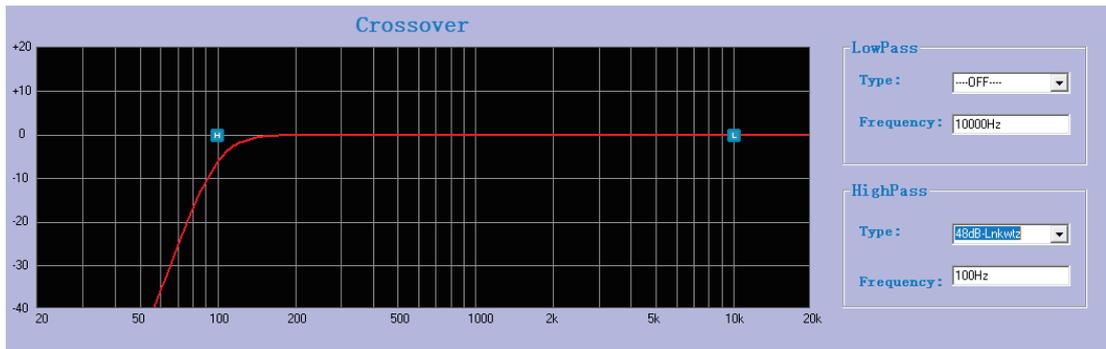
## 12dB-Lnkwtz



## 24dB-Lnkwtz

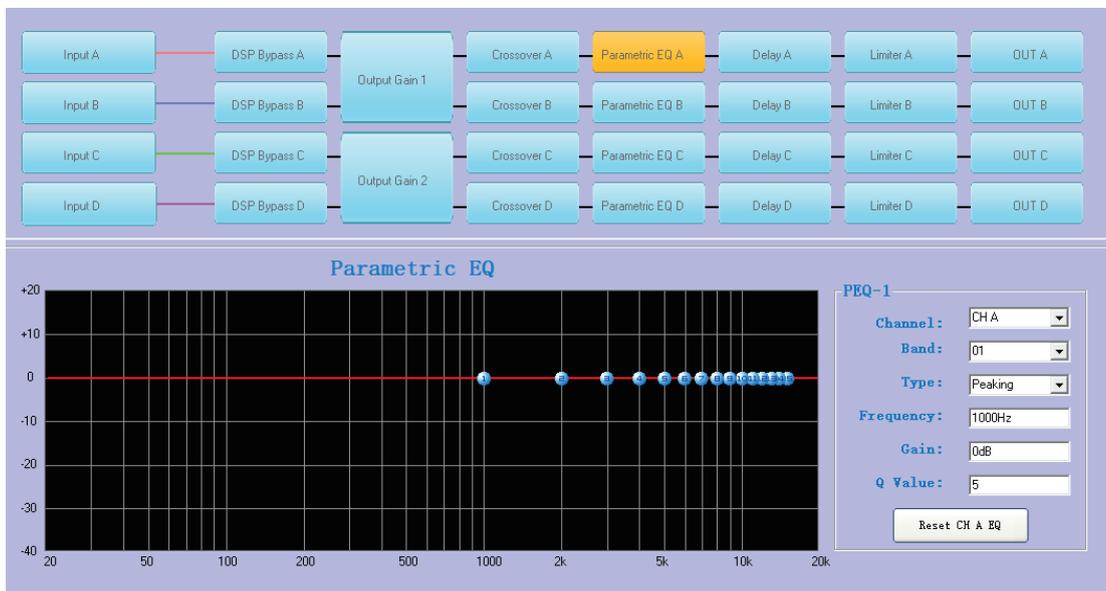


### 48dB-Lnkwtz



Frequency-Input high pass filter frequency (20Hz~20kHz)

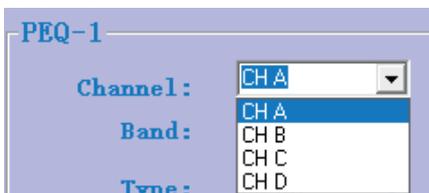
## 6.8 Parametric EQ



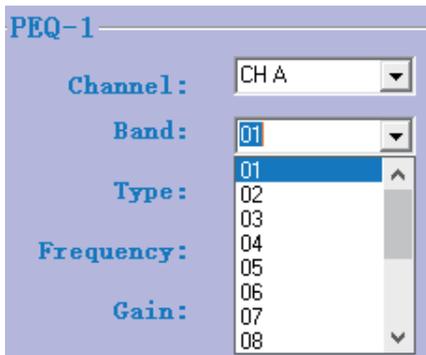
Parametric EQ- the type, frequency, gain and Q value of each segment are settable.

### PEQ-1:

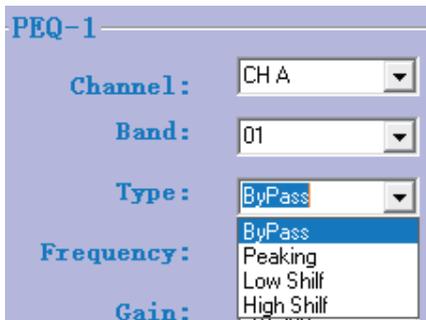
Switch channel



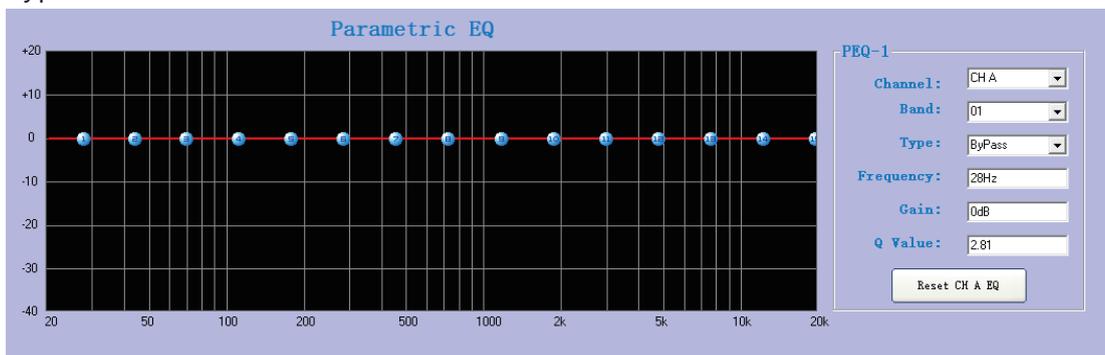
## Switch Band



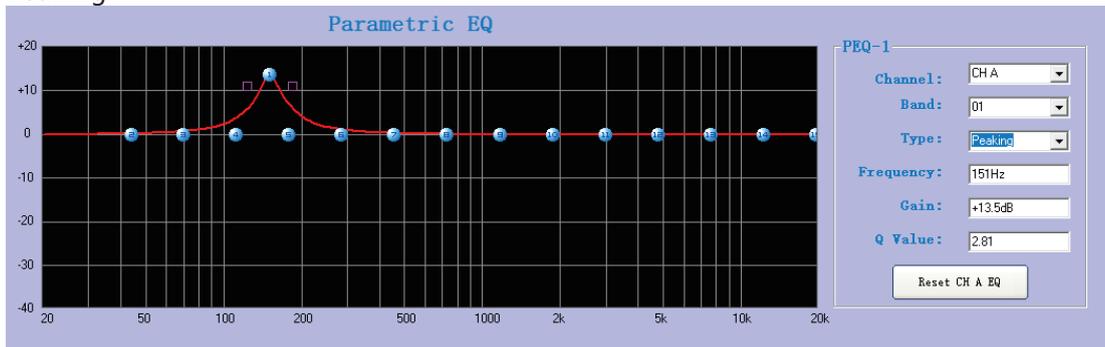
## Switch Filters Type (ByPass, Peaking, Low Shelf, High Shelf)



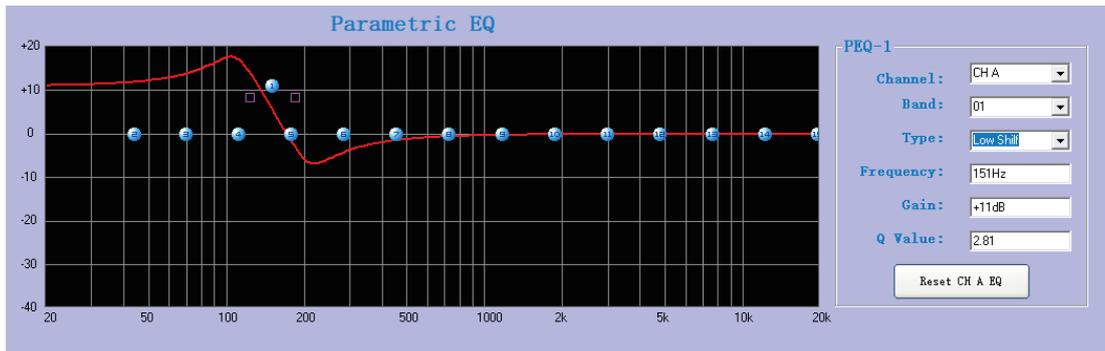
## Bypass



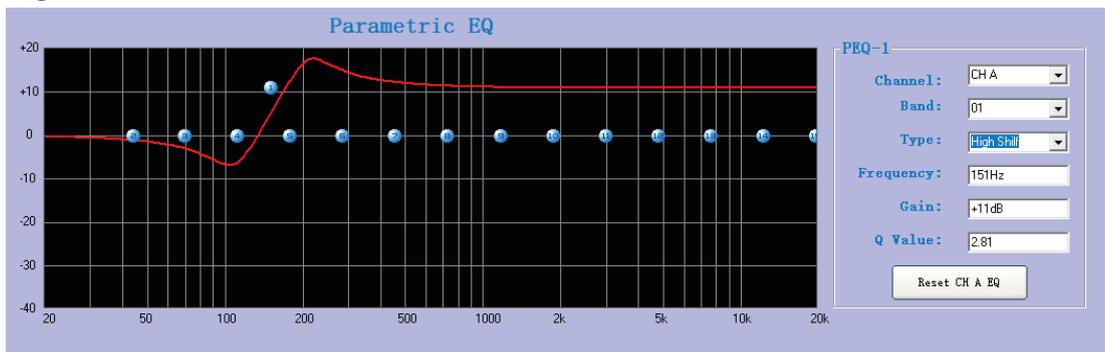
## Peaking



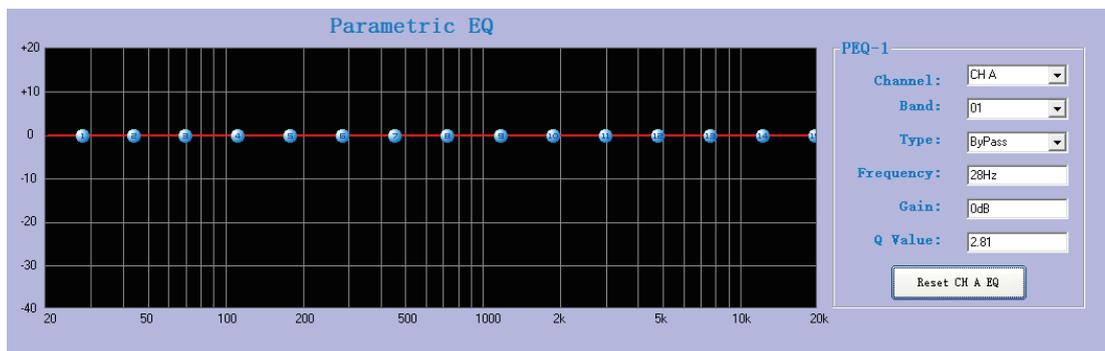
### Low Shelf



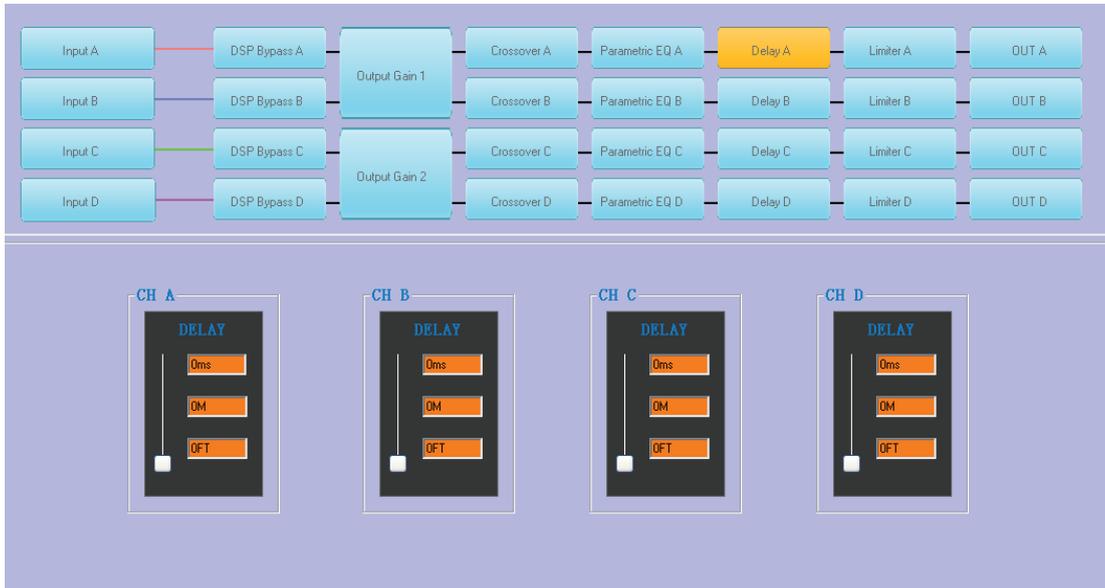
### High Shelf



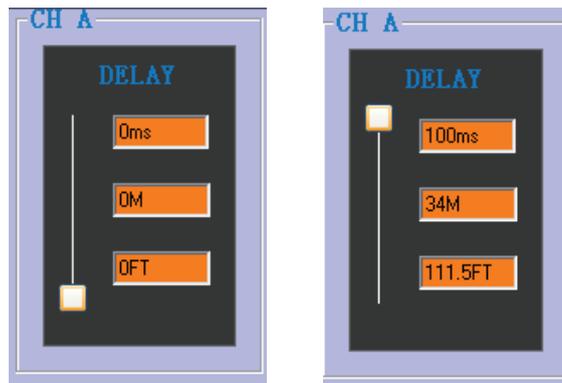
### Reset CH A\B\C\D EQ



## 6.9 Delay



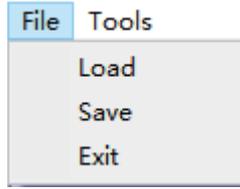
DELAY:0ms~100ms(0M~34M,0FT~111.5FT)



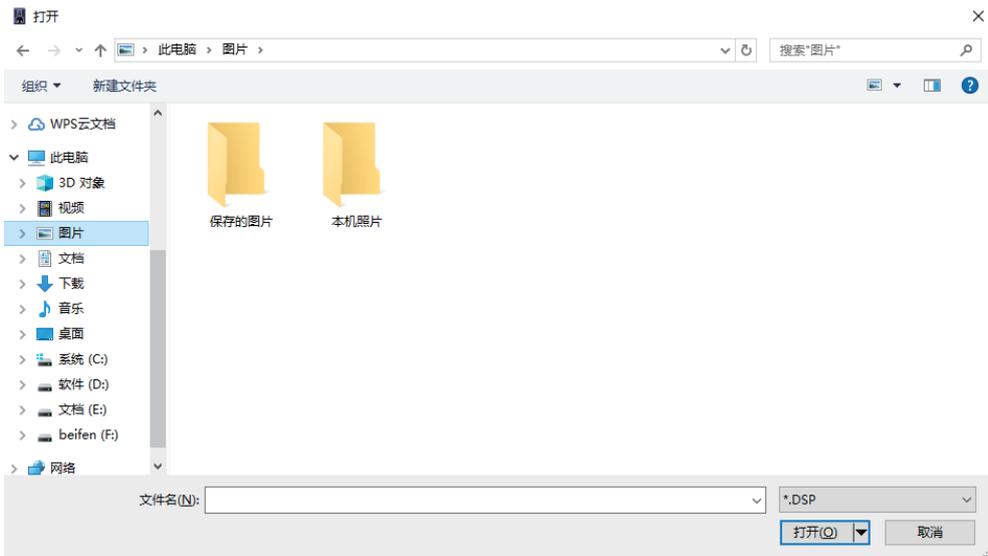
### 6.10 Limiter

Limiter:  
 Channel: CHA, B, C, D  
 ON/OFF  
 Threshold: -32dB~0dB  
 Attack: 10ms~10000ms  
 Release: 10ms~10000ms

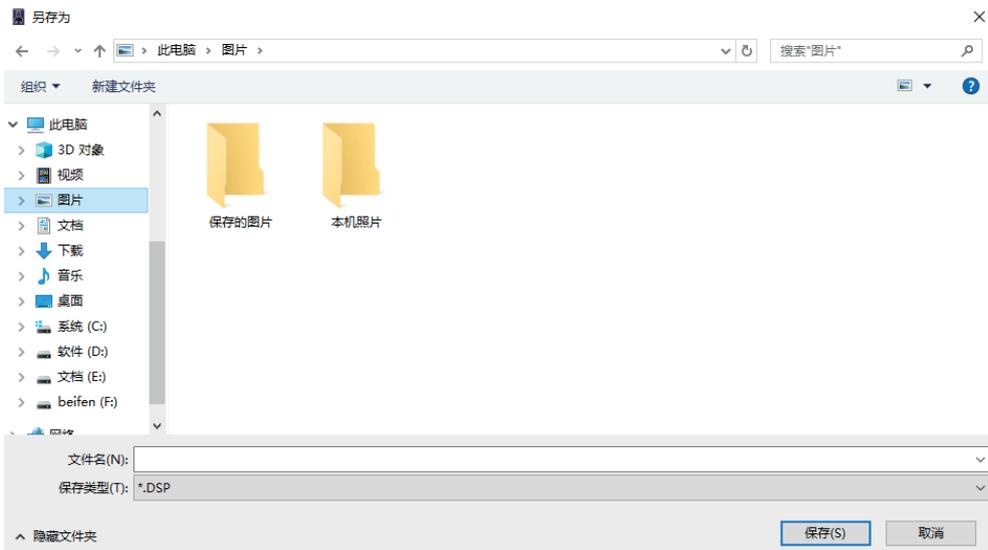
# 7 File



## 7.1 Load



## 7.2 Save



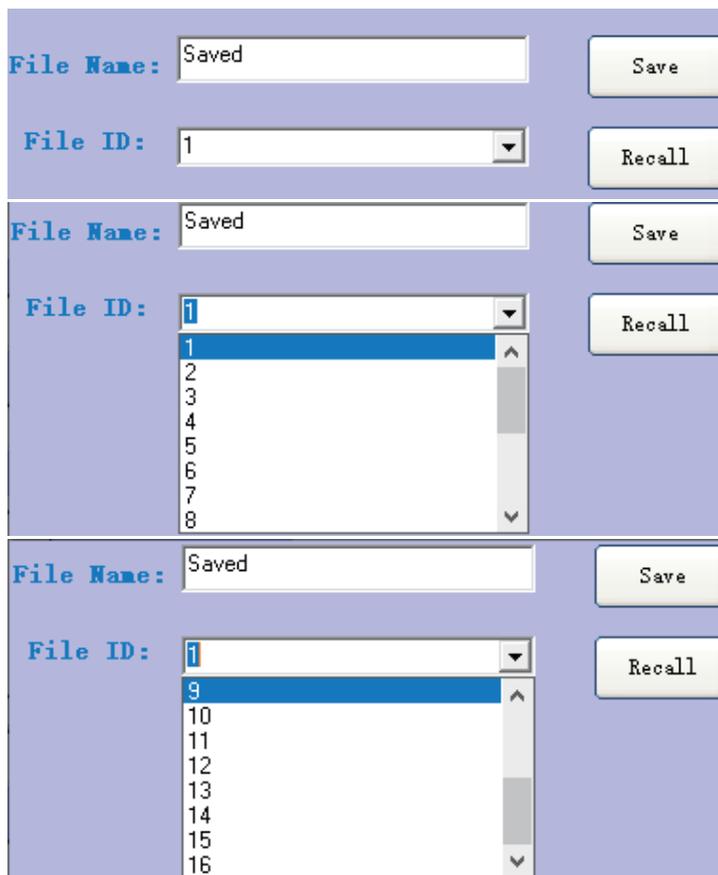
## 7.3 Exit

# 8 Tools



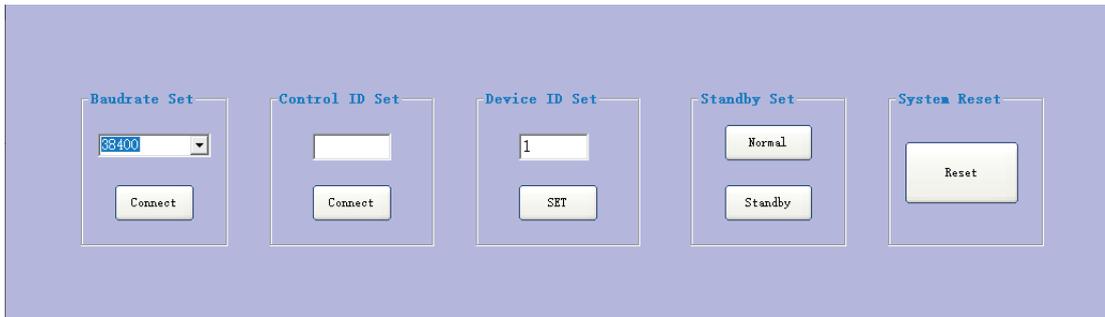
## 8.1 Connect

## 8.2 Save/Recall

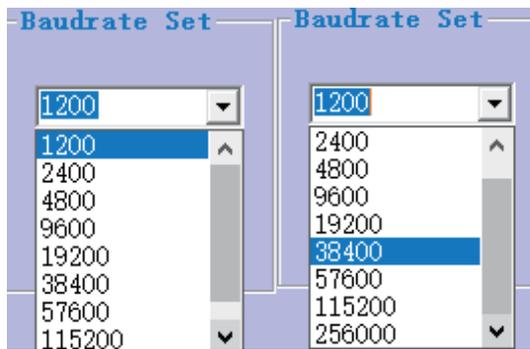


Enter the file name, select the file number (0-16) and click Save to save the data to the appropriate location to select the file number (0-16). Click Recall to retrieve the corresponding data.

## 8.3 Other Set:



8.3.1 Baudrate Set (Baud rate setting: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 256000)



### 8.3.2 Control ID Set

-Enter the corresponding ID number and click Connect to confirm that switching ID corresponds to the control of the device.

### 8.3.3 Device ID Set

-Enter ID number and click SET to set the current ID as input ID.

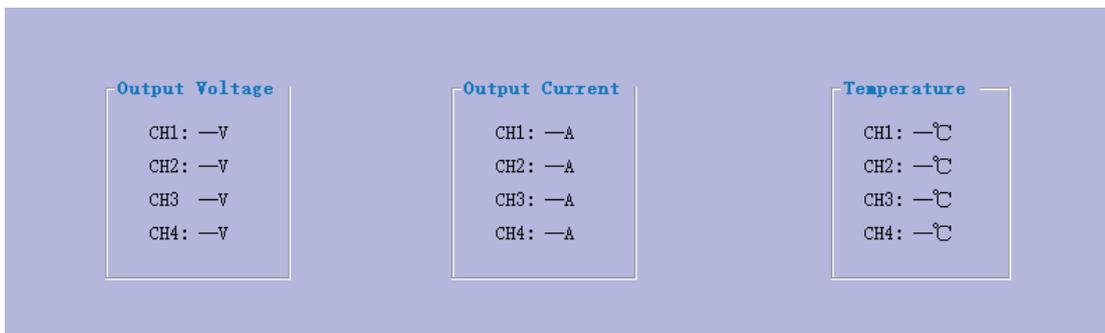
### 8.3.4 Standby Set

-Click Normal or Standby.

### 8.3.5 System Reset

-Click Reset

## 8.4 Info



**Output Voltage**

-Displays the voltage of all current channels.

**Output Current**

-Displays the current of all current channels.

**Temperature**

-Displays the Temperature of all current channels.

## 9 Specification

Model	DQX2-6000	DQX4-8000	DQX4-6000	DQX2-4000	DQX2-3000	DQX4-4000	DQX2-2000	DQX4-2600	DQX2-1300	
Rated Output Power(THD+N=1%, 1kHz continue sine wave, one channel driving)	8Ω/Stereo	2X2500W	4X2000W	4X1500W	2X2000W	2X1500W	4X1000W	2X1000W	4X650W	2X650W
	4Ω/Stereo	2X4250W	4X3400W	4X2550W	2X3400W	2X2550W	4X1700W	2X1700W	4X1100W	2X1100W
	2Ω/Stereo*	2X5950W	4X4760W	4X3570W	2X4760W	2X3570W	4X2890W	2X2890W	4X1870W	2X1870W
	16Ω/Bridge	1X5000W	2X4000W	2X3000W	1X4000W	1X3000W	2X2000W	1X2000W	2X1300W	1X1300W
	8Ω/Bridge	1X8500W	2X6800W	2X5100W	1X6800W	1X5100W	2X3400W	1X3400W	2X2200W	1X2200W
	4Ω/Bridge*	1X11900W	2X9520W	2X7140W	1X9520W	1X7140W	2X5780W	1X5780W	2X3740W	1X3740W
Output RMS voltage(THD+N=1%, 1kHz)	141.4V	126.5V	109.5V	126.5V	109.5V	89.4V	89.4V	72.1V	72.1V	
Maximum input level	8.7Vrms(+21dBu)(Default Gain)									
Default Gain(Rated Power, 1kHz)	27dB	26dB	25dB	26dB	25dB	23dB	23dB	21dB	21dB	
Gain(Rated Power, 1kHz)	26dB~43dB	24dB~42dB	23dB~41dB	24dB~42dB	23dB~41dB	21dB~39dB	21dB~39dB	19dB~37dB	19dB~37dB	
THD+N(10% Rated Power, typical)	0.05%									
IMD-SMPTE(10% Rated Power, typical)	0.05%									
DIM30(10% Rated Power, typical)	0.05%									
Cross-talk(20Hz-1kHz, below Rated Power, typical)	≥90dB									
Frequency response(10% Rated Power, 20Hz-20kHz, 8Ω, typical)	±0.2dB									
Input impedance	20kΩ ( Balance ) , 10kΩ ( Unbalance )									
Damp factor(8Ω, 20Hz-200Hz, typical)	≥300									
SNR(A weighted 20Hz-22kHz, typical)	≥105dB									
Main power	90~260VAC, 50~60Hz									
Protection	Protection: Under voltage, DC, Over temperature; Limiter: Over temperature, Over load, Short .									
Size(W×H×D)	483x44x465mm					483x44x370mm				
Net weight	13kg					9kg				

\* Test condition: 20ms, 1kHz, THD +N=1%.

## 10 Power consumption and heat

Test signal: Pink Noise, bandwidth limited from 22Hz to 22kHz

1/8 power is typical of program material with occasional clipping. Refer to these figures for most applications.

1/3 power represents program material with extremely heavy clipping.

## 2x800W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.4	0.8	90.0	0.0	90.0	307.1	77.4
1/8 power	8Ω/CH	1.3	2.5	277.8	200.0	77.8	265.4	66.9
	4Ω/CH	2.1	4.2	459.5	340.0	119.5	407.7	102.7
1/3 power	8Ω/CH	3.0	6.0	658.4	533.3	125.1	426.9	107.6
	4Ω/CH	5.0	10.1	1105.7	906.7	199.0	679.2	171.2

## 2x1000W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.4	0.8	90.0	0.0	90.0	307.1	77.4
1/8 power	8Ω/CH	1.6	3.2	347.2	250.0	97.2	331.8	83.6
	4Ω/CH	2.6	5.2	574.3	425.0	149.3	509.6	128.4
1/3 power	8Ω/CH	3.7	7.5	823.0	666.7	156.4	533.7	134.5
	4Ω/CH	6.3	12.6	1382.1	1133.3	248.8	849.0	214.0

## 2x1500W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.4	0.8	90.0	0.0	90.0	307.1	77.4
1/8 power	8Ω/CH	2.4	4.7	520.8	375.0	145.8	497.7	125.4
	4Ω/CH	3.9	7.8	861.5	637.5	224.0	764.4	192.6
1/3 power	8Ω/CH	5.6	11.2	1234.6	1000.0	234.6	800.5	201.7
	4Ω/CH	9.4	18.8	2073.2	1700.0	373.2	1273.5	320.9

## 2x2000W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.5	1.0	110.0	0.0	110.0	375.4	94.6
1/8 power	8Ω/CH	3.2	6.3	694.4	500.0	194.4	663.6	167.2
	4Ω/CH	5.2	10.4	1148.6	850.0	298.6	1019.2	256.8
1/3 power	8Ω/CH	7.5	15.0	1646.1	1333.3	312.8	1067.3	269.0
	4Ω/CH	12.6	25.1	2764.2	2266.7	497.6	1698.0	427.9

## 2x2500W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.6	1.2	130.0	0.0	130.0	443.7	111.8
1/8 power	8Ω/CH	4.7	9.5	1041.7	750.0	291.7	995.4	250.8
	4Ω/CH	7.8	15.7	1723.0	1275.0	448.0	1528.8	385.3
1/3 power	8Ω/CH	11.2	22.4	2469.1	2000.0	469.1	1601.0	403.5
	4Ω/CH	18.8	37.7	4146.3	3400.0	746.3	2547.0	641.9

**4x1000W**

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.7	1.5	160.0	0.0	160.0	546.0	137.6
1/8 power	8Ω/CH	3.2	6.3	694.4	500.0	194.4	663.6	167.2
	4Ω/CH	5.2	10.4	1148.6	850.0	298.6	1019.2	256.8
1/3 power	8Ω/CH	7.5	15.0	1646.1	1333.3	312.8	1067.3	269.0
	4Ω/CH	12.6	25.1	2764.2	2266.7	497.6	1698.0	427.9

**4x1500W**

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.7	1.5	160.0	0.0	160.0	546.0	137.6
1/8 power	8Ω/CH	4.7	9.5	1041.7	750.0	291.7	995.4	250.8
	4Ω/CH	7.8	15.7	1723.0	1275.0	448.0	1528.8	385.3
1/3 power	8Ω/CH	11.2	22.4	2469.1	2000.0	469.1	1601.0	403.5
	4Ω/CH	18.8	37.7	4146.3	3400.0	746.3	2547.0	641.9

**4x2000W**

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.8	1.6	180.0	0.0	180.0	614.3	154.8
1/8 power	8Ω/CH	6.3	12.6	1388.9	1000.0	388.9	1327.2	334.4
	4Ω/CH	10.4	20.9	2297.3	1700.0	597.3	2038.4	513.7
1/3 power	8Ω/CH	15.0	29.9	3292.2	2666.7	625.5	2134.7	537.9
	4Ω/CH	25.1	50.3	5528.5	4533.3	995.1	3396.1	855.8

\*1W=0.860kcal/h,1BTU=0.252kcal

## 11 Maintenance

The internal circuit of the equipment is very complicated and can only be maintained by the trained professional technicians. If a failure occurs, contact our technical support.

When the equipment is sent back to the maintenance, please fill in the "maintenance information card" and send it back with the equipment together.

Do not transport any attachments with the equipment, such as power lines, manuals, etc..

These articles are not required for maintenance, and we are not responsible for these items.

Adequate protection must be given to the equipment. We recommend the use of the original packaging materials.

## 12 Packing directions

1、 Please fill out the attached "Maintenance Information Card" in the back of the manual.

2、 Do not transport the unit with any accessories, such as the wires, hardware and the manual. The product's repair does not need these items, and these items we are not responsible for.

3、 When transporting the products, it must be fully protected. We recommend that you send back to repair with the original packaging.

4、 If you transport the unit with your own packaging, the simple packaging at least meets the following requirements:

a、 Use the double-layer carton which has passed the 275 PSI (PSI: pressure units, 1kg/cm<sup>2</sup> approximately 14.5 PSI) burst test, and leave 8cm space to fill the solid foam polystyrene at the six surfaces.

b、 Use enough sealing tape to seal the carton.

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c、 Do not use thin carton. The damage due to the poor packaging will not be able to enjoy the warranty.

## 13 Maintenance outside the warranty

First we will detect the equipment, and tell you the maintenance fee, you need to pay, then we begin to repair. If you do not agree with the maintenance, please contact the company customer service center to reclaim equipment as soon as possible. The company has no obligation to keep your equipment, if 30 days yet not to get back to your equipment, the company will have the right to dispose of.

## 14 Warranty

We provide three (3) years warranty from the buying date, for any reason caused failure (except Items not included in the scope of the warranty).

## 15 Items not included in the warranty

Warranty applies only to new products within the warranty period. This warranty does not cover following cases: damages due to improper use, accident; losses be insured by the insurance contract; serial number to be defaced, modified or erased; damages caused by improper transport packaging; unauthorized maintenance or modification of the product.

## 16 Warranty responsibility

For any defect, regardless of fault reason (except items not included in the scope of the warranty) we will remedy by repairing, replacing, or refund (we can not provide replacement services, and repair can not solve the problem or can not provide timely repair, otherwise we will not choose a refund). If you choose a refund, you must return the faulty products to us free of charge, and do not retain any lien or mortgage. Refunds shall be the same as the actual purchase price, excluding interest, insurance, handling and other expenses. Warranty can only be performed in authorized service center or factory. We will repair the product defects and deliver the product in a reasonable time.

## 17 How to obtain warranty service

You must inform us your warranty service in the warranty period. Our authorized service center takes the corresponding quality assurance measures within the reasonable time after receiving the defective products. If you are not satisfied with the result of the repair, please inform us immediately.

## 18 Indirect or accidental damage Disclaimer

You have no right to receive any compensation for any damage caused by any defects in our new products, include any damage caused by this type of defect to other products.

The company is not responsible for any loss incurred directly or indirectly as a result of equipment damage.

## 19 Warranty modification

No one has the right to expand, or modify this warranty. This warranty will not be prolonged because you did not use the equipment.

## 20 Design change

We reserve the right to change the design of any product at any time without notice, and do not undertake the obligation to make corresponding changes to the products previously produced.

## 21 Buyers legal remedy

After the expiration of the warranty, the company will have the right to stop the implementation of any quality assurance measures.

This statement will take precedence over any other statements contained in this manual.

*S*tdiomaster