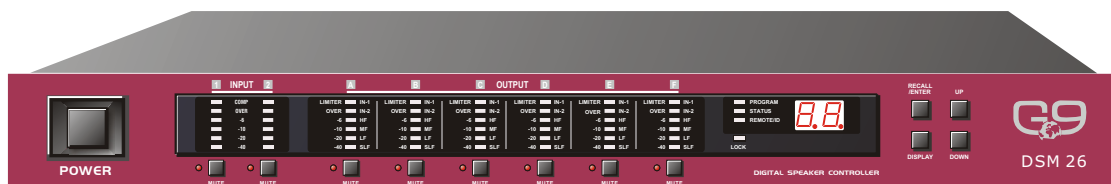


DSM26

DIGITAL SPEAKER PROCESSOR



| | |
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Instruction:

The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated “angerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation an maintenance (servicing) instructions in the literature accompanying this appliance.

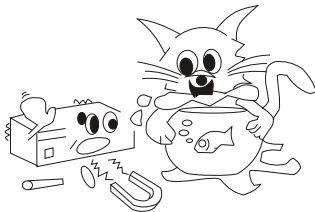
Do not open the cover:

Do not open the cover to avoid the risk of electric shock caused by high voltage parts in the product. Any problems caused by user's wrong actions are out of warranty.



Do not damage the cord:

the cord Please hold the plug when pulling out or plug in the cord. Do not pull out or touch the cord with wet hand, or it will cause the risk of electric shock. Power supply cords should be routed so th at they are not likely to be walked upon or pinched by items placed on or against them. When removing the cord from a power outlet be sure to remove it by holding the plug attachment and not by pulling on the cord.



Avoid object and liquid entry:

Take care that objects do not fall into and that liquids are not spilled into the inside of the product.If the object or liquid enter the product, please ask qualified personnel to check it.

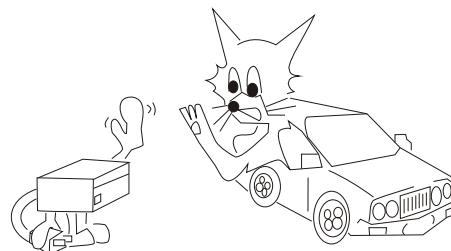
Abnormal status:

In the event of abnormal noise and smell, please put off the power supply and pull out the cord, please ask qualified personnel to check it.



Nonuse for a long time:

When nonuse it for a long time, please put off the power supply and pull out the cord to avoid the unexpected dangers.



Thank you for your purchasing of the DEVICE digital speaker processor. This processor builds on the advanced and experienced ideas of design and marketing, the excellent audio performance and competitive quality/price ratio make sure your interests.

This unit DEVICE, can provide the precise digital signal processing for two channel analog signal. She has audio processor and audio management functions. It can be used to the middle/small sound reinforcement system. And can be used as a monitor to control the working status in control center. RS-485 PC port is provided for use with proper software system. So it is fit for the large avenue systems. The front panel interface allows quick access to all parameter by indication functions: Full control is also available via MIDI input and output jacks. Also indicate each channel configure information (Sound resource, subwoofer, low frequency, middle frequency and high frequency). Numeral remote ID or current users serial number. Setting ID or recall user's program is available by touching front panel buttons.

2.1 Audio Features

The DEVICE utilizes state of the art DSP technologies, beginning with 24bits, 64KHz delta-sigma A/D and D/A converters, with 32 bits floating points DSP for signal processing. Digital processing includes Gain, Polarity Invert, Parametric EQ, Shelving Filters, Delay, Crossover Functions (Butter worth/Bessel/ Linwitz, optional slope 12dB~36/oct), Limiting, Signal Routing, etc. All audio inputs and outputs are precise electrical balanced and RF protected circuit and using standard XLR connectors.

2.2 User Interface

Front panel interface:

LED dynamic indicate, Limiting function indication, Users Program configure indication. Mute input/output indication button, Current program number and Unit ID indication. Front panel operation/running, and Remote ID Changing function button.

Control system software:

The computer interface uses SYSTEM SOFTWARE for Windows98 or above version, which allows flexible user programs configuration through an USB serial port. It can upload the user program from processor to computer, or download the user set programs from computer to processor.

2.3 Other Features

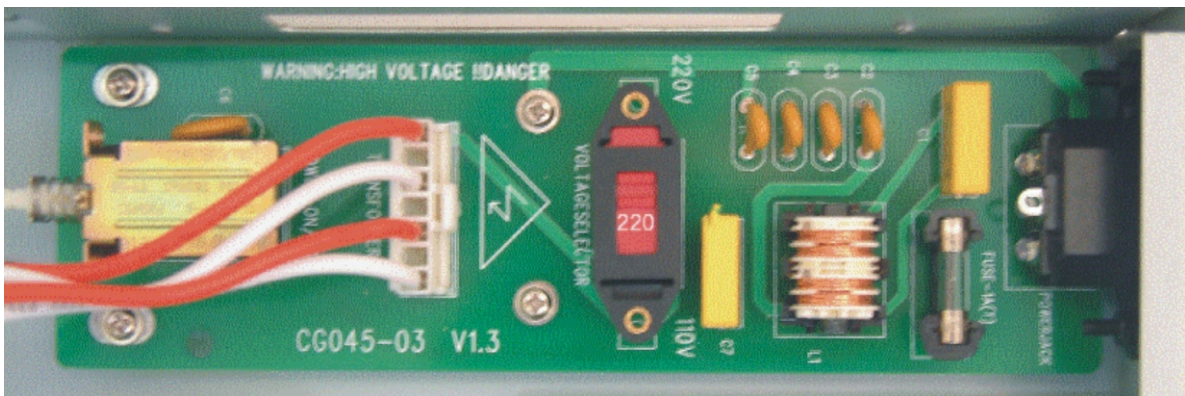
Having 50 groups of configure programs, and many fault programs for different equipments and application avenues, it is very convenient for user.

As a part of our system of quality control, every product is carefully inspected before leaving the factory to ensure flawless appearance. After unpacking, please inspect for any physical damage. Save the shipping carton and all packing materials for the future shipping and safety. In the event that damage has occurred, immediately notify your dealer so that a written claim to cover the damages can be initiated.

4> AC power requirements

Note:

The 115V/220V switch is built in the DEVICE to avoid damage caused by wrong operation. The default set is 220V before leaving factory. If the local voltage is 110V, please open the cover and set the switch at 110V under disconnecting the AC power and change the 500mA fuse.. If the fuse is damaged , please replace the same type and rating fuse.



Instruction:

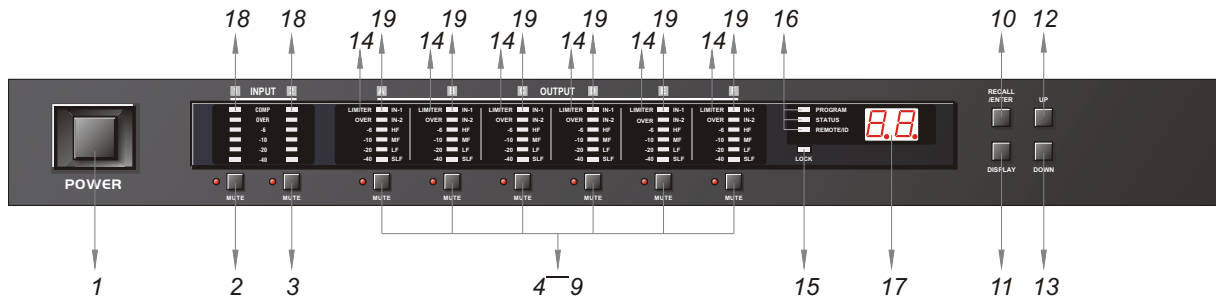
The show on the switch is standard. As above diagram, the show is 220V on switch, it means the current AC voltage is 220V.

Note:

When the local voltage is 110V, please use the 500mA delay fuse; when the local voltage is 220V, please use the 250mA delay fuse.

Note:

When the operation on front panel is locked(the LOCK indicator lights up) or when connecting with PC, all the buttons is not available.



1. Power switch

To turn the power on/off.

2. Input channel 1 mute button:

Press the button, the red LED on the left lights up, the input is muted. The output from Channel 1 has not the signal output, but at the same time, input level dynamic range still shows the real input status.

3. Input channel 2 mute button:

Press the button, the red LED on the left lights up, the input is muted. The output from Channel 2 has not the signal output, but at the same time, input level dynamic range still shows the real input status.

4-9. Output channel mute button:

press the button, the red LED on the left lights up, the output is muted, A-F channels have not output, and the level dynamic range LED will be off.

10. Enter/recall button

When the " PROGRAM " indicator lights up, press the " ENTER/RECALL " , number display shows the current program number, output channel LED shows the channel status. Use the " UP " and " DOWN " buttons to find the needed program, press the " ENTER " button and recall the program.If you want to cancel the recalling, press " DISPLAY " button under the sparkling status.

11. Display button

12. UP button

13. DOWN button

14. Output channel peak limiter indicator

15. Front panel lock indicator

16. Status indicator

17. Program number or ID number display

18. Input channel level dynamic indicator

19. Output channel level dynamic indicator

Remarks:

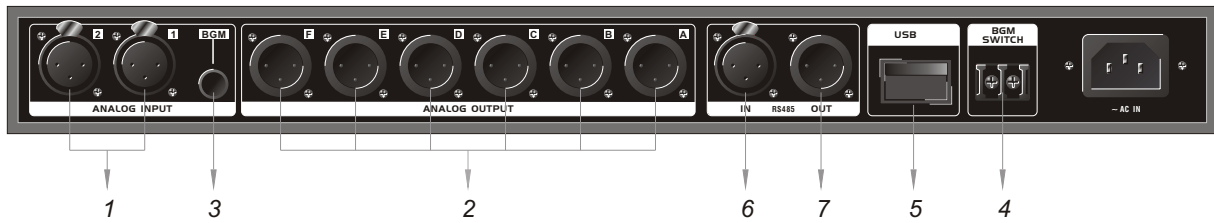
Unit of level indicator

OVER:

lights up when the wave reaches digital's full scale(the clipping level). You need to lower the level when it lights up often.

-6,-10,-20,-40:

Indicates the level in decibels(0dBFS) on digital full scale.



1. Analog input terminals(IN-1,IN-2)

Connector: XLR-3-31

1: GND, 2: HOT, 3: COLD

Circuit: Electronic balanced circuit

Maximum input level:+20dBu



5. Control interface (standard USB)



Compatible with
USB1.1&USB2.0

2. Analog output terminals (A.B.C.D.E.F)

Connector: XLR-3-32

1: GND, 2: HOT, 3: COLD

Circuit: Electronic balanced circuit

Maximum input level:+20dBu



6. Remote control input terminal (RS-485)



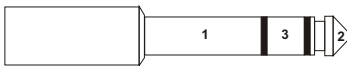
1: GND

2: A+

3: B-

3. Spare signal input terminal(BGM)

Connector: 6.35 big three cores jack



1: GND, 2: HOT, 3: COLD

7. Remote control output terminal (RS-485)



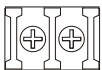
1: GND

2: A+

3: B-

4. Spare signal switch(BGM SWITCH)

Control voltage:DC+5V-+48V



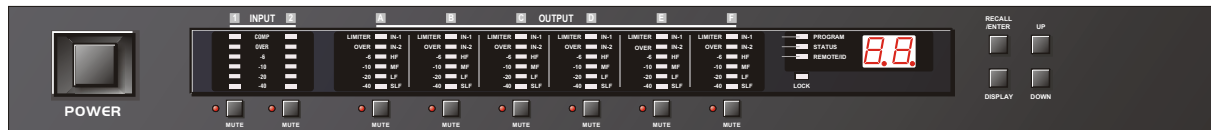
Connecting: terminal board,
tight the screw

Action status: the voltage on two terminals>
5V DC,input switch to BGM, or
the In1 and IN2 are available

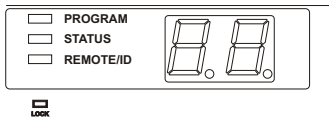
8. Power input terminal

input voltage: Refer to 4





7.1 Switching display mode



You can change the display mode by pressing the display button in turn. The Display mode indicator shows the current display. (Not available during external control)

When PROGRAM is lit:

The number display indicates the current program number and each output channel indicator indicates output level at that output;

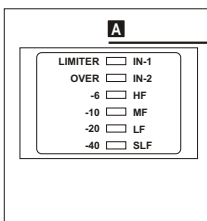
When OUTPUT STATUS is lit:

The number display indicates the current program number and each output channel indicator indicates output assignment status.

When REMOTE/ID is lit:

The number display indicators REMOTE ID number and each output channel indicator indicates the level.

Output level indication:



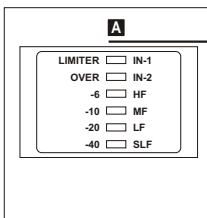
Indicates signal levels of each output after all signal processing.

Output level correspond to the level scale printed at the left side of the indicator.

When OVER is lit for a long time: means that the signal is too big, can lower the input signal;

When LIMITER is lit: means the compressor is working.

Output status indications:



Indicates simply which output channel is fed by which input channel and the output frequency range based on the setting of filter cut-off frequencies.

This function helps prevent speaker from being damaged as you can make sure of each output's status when you operate RECALL or connect an amplifier and loudspeaker.

The print at the right side of the LED show each indication's meaning as follows:

" IN-1, IN-2 "

Indicates which input's signal is the sound source. When both indicators light up, it indicates monomixed signal is the sound source.

" HF, MF, LF, SLF "

Indicates the frequency range of each output channel:

HF : High Frequency; Lights up when frequencies $\geq 1\text{KHz}$;

MF : Middle Frequency; Lights up when frequencies from 500Hz to 1KHz;

LF : Low Frequency. Lights up when frequencies from 100Hz to 500Hz;

SLF: Super Low Frequency; Lights up when frequencies $\leq 100\text{Hz}$.

7.2 Indications and operation at LOCK

To assure the use security by using an external computer(need to install control software of this processor), you can disable RECALL and REMOTE/ID operation with the unit, and then LOCK indicator lights up.

You can operate without using an external computer to LOCK and release LOCK of the unit

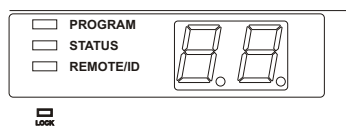
To LOCK

- 1). Turn off the power,
- 2). Turn on the power with keeping pressing UP button. (Sound is not output),
- 3). LOCK lights up while digital transistor display normal No., move away your hand from UP ,
Auto panel operation is prohibited and come to normal working status.

To release LOCK

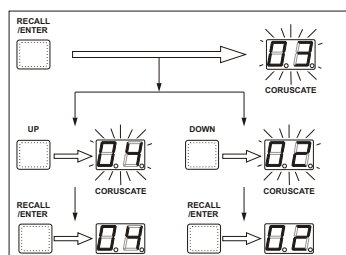
- 1). Turn off the power
- 2). Turn on the power with pressing DOWN button.
- 3). LOCK lights down while digital transistor display normal No., move away your hand from DOWN, Auto panel operation open and come to normal working status.

7.3 Display and operation during linking to computer



You cannot use buttons on the front panel while you control with an external computer. In this case, indicator of LOCK at DISPLAY mode indicator light up. The number of the display indicates the current program number.

7.4 " RECALL " : Transferring program



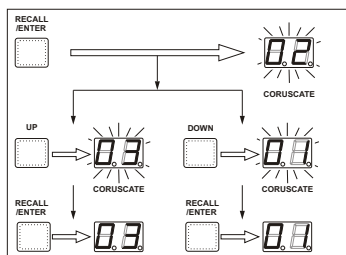
RECALL of stored programs with the unit is as follows,

- 1). Press RECALL/ENTER button while PROGRAM indicator lights up. Then the currently set program number flashes and each output channel indicator turns to flash simultaneously, meaning that it is ready for setting output status. (Program will not be changed until step 3),
- 2). Select program number you to RECALL output indicating the program arrangement information with UP and DOWN,
- 3). Press RECALL/ENTER button. The program number will stop flashing and display the newest programs' Number.

Attention:

- 1). You can press DISPLAY button to cancel while digital transistors display, the mode will be back to the normal status before starting RECALL,
- 2). Program NO. inside without save will not display,
- 3). RECALL operation is impossible if you press RECALL/ENTER when there is no RECALL-capable program. Also, any stored programs which are set RECALL LOCK are never displayed. (use an external computer to set and release RECALL LOCK.),
- 4). When the LOCK indicator is lit, RECALL operation is impossible.

7.5 Changing remote ID



REMOTE ID is preset at factory to 01. It can only be changed by operating from the panel:

- 1). Press **DISPLAY** button. Then **REMOTE/ID** indicator lights up and currently selected number displays set number displays,
- 2). Press **UP** or **DOWN** button repeatedly until the number you want appears. When you keep pressing them. The number gains or loses continuously,
- 3). Press " **RECALL/ENTER** " button, confirm the changing and display the latest ID code.

Signal Processing Block and procedure Chart (go to 13 for reference).

8.1 input signal selecting block

Select the combination of 2 analog channels (IN1+IN2) and 2 digital channels (IN1,IN2).

8.2 Master channel processing block

1). 11-band parametric equalizer

EQ Type : (parametric equalizer type): Select one of Peaking/ bandpass/hi-shelf/lo-shelf/notch;

Frequency : Adjustable in a range of 20Hz-20kHz, at 1/12 oct steps and from 121 points.

Level : As for peaking and shelving, adjustable in a range of + 12.0dB and at 0.5dB steps.

Q : As for peaking, bandbass and notch, adjustable in 73 levels in a range of Q =0.31-19.4

Gain : Ajustable in a range of oo + 12.0dB at 0.5dB steps;

PEQ Link : You can link IN1 & IN2 by linking command, and adjust and influenced PEQ & Gain.

2). Master channel delay compressor

Can be adjusted with 15.515 μ sec steps up to 0-2.034 seconds.(15.515 μ sec is equal to sound transfers to 5.275mm in air)

8.3 Output channel processing block

Each output channel is identical and can to be set independently.

1). Selecting the input signal

You can select the input source from master 2 channels from following 3 patterns.

IN-1 : Master IN-1 channel signal

IN-2 : Master IN-2 channel signal

IN-1+ IN-2 : Mono-mix signal of master 2 channels

2). Crossover filter (LCF,HCF)

Selectable OFF for both LCF and HCF. Also it allows to be used for a 2input/6output signal Distributor.

Frequency: Adjustable in a range of 20-20kHz, at 1/12 oct steps and from 121 points.

Filter type:

- (1) ²nd order Butterworth(-12dB/oct slope)
- (2) ³rd order Butterworth(-18dB/oct slope)
- (3) ⁴th order Butterworth(-24dB/oct slope)
- (4) ⁵th order Butterworth(-30dB/oct slope)
- (5) ⁶th order Butterworth(-36dB/oct slope)
- (6) ²th order Bessel(-12dB/oct slope)
- (7) ³th order Bessel(-18dB/oct slope)
- (8) ⁴th order Bessel(-24dB/oct slope)
- (9) ⁵th order Bessel(-30dB/oct slope)
- (10) ⁶th order Bessel(-36dB/oct slope)
- (11) ²th order Linkwitz-Riley(-12dB/oct slope)
- (12) ⁴th order Linkwitz-Riley(-12dB/oct slope)

3). 3-band PEQ

It offers 3-band PEQ for each output channel.

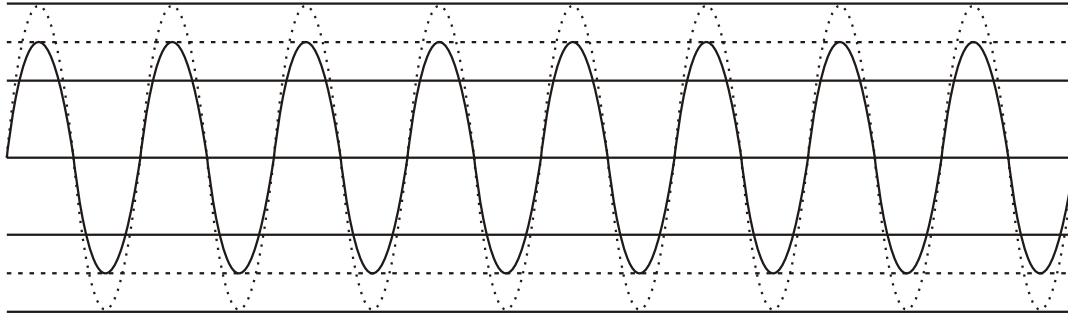
Each parameter of 3-band PEQ is same as the PEQ of master channel processing block.

4). Channel Level

Adjustable in 0.5dB steps over a range of ∞ -- +12.0dB.

5). Peak Limiter.

Include Instantaneous waveform transformation type peak limiter in each channel. It can be set over a range of -24.0dBFs+2dBFs, OFF at 0.5dB steps. When signal reaches the limiting level, the limiter indicator is lit. Following is the chart before processing (narrow line) and after processing (wide line).



Real line: before processing Broken line: after processing

6). Delay

Capable adjust with 15.515 μ sec steps at 0- 2.034seconds (15.515 μ sec is equivalent to approximately 5.275mm in the speed of sound.

NOTE:

The minimum delay time between input and output while using an analog input/output is about 1.2msend when delay time is set at 0. This delay is caused by signal's passing through A/D, D/A converter and the signal processor.

7). Phase

Capable of switching normal or inverse (180°).

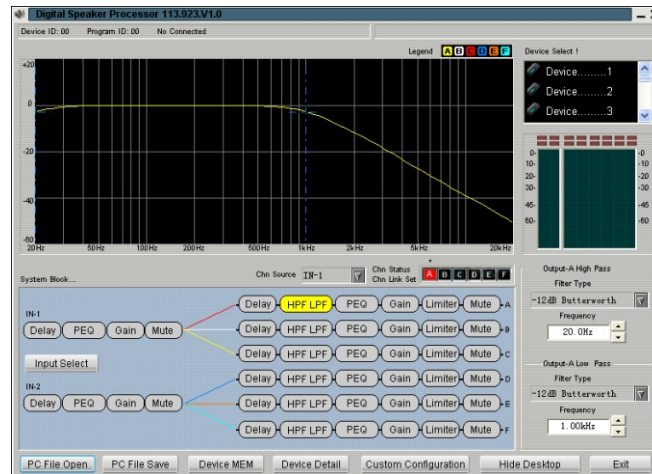
8). Muting

Capable of setting for each channel.

9). Domain of output channel link

Except Muting and source of invoice is individual setting everlasting, Parameter of other channels can be adjustable by link.

This facility offers a multifunctions software control panel, which controls Max 50 equipments, and it equips lots of relative documents and allow users to put into practice concretely and quickly.



9.1 How to get this software

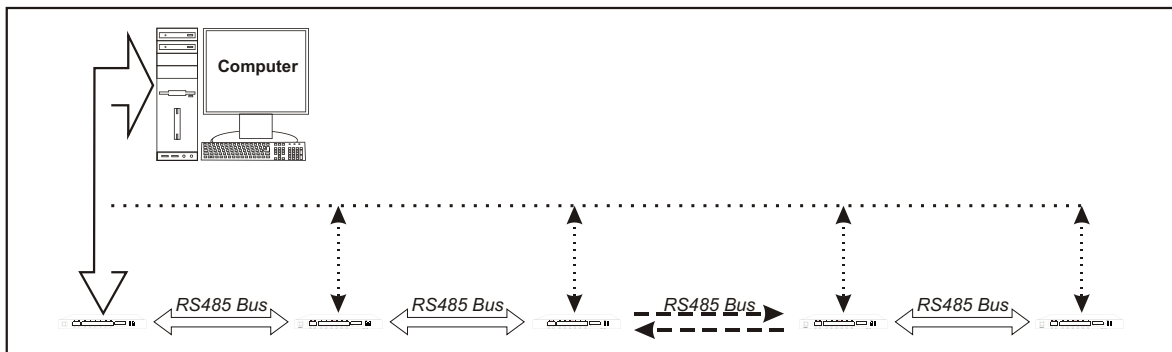
The software is stored in the disc. of course, you can also down load the latest version of this software and more our company's optimize collocated files and practical useness.

9.2 Installation of the software

System requirement: Window98 or above operation systems. Distinguish of clearance at 800*600 or above, have at least a USB serial interface . Play the installation program DEVICE on the disc, and finish the steps of the instruction installation procedures

9.3 Facility and the connection of computer

System demand: Windows98 operation systems or above, Distinguish of clearance at 800*600 or above. Have at least a USB serial port . Play the installation systems DEVICE on the disc, and finish the steps of the instruction installation procedures.

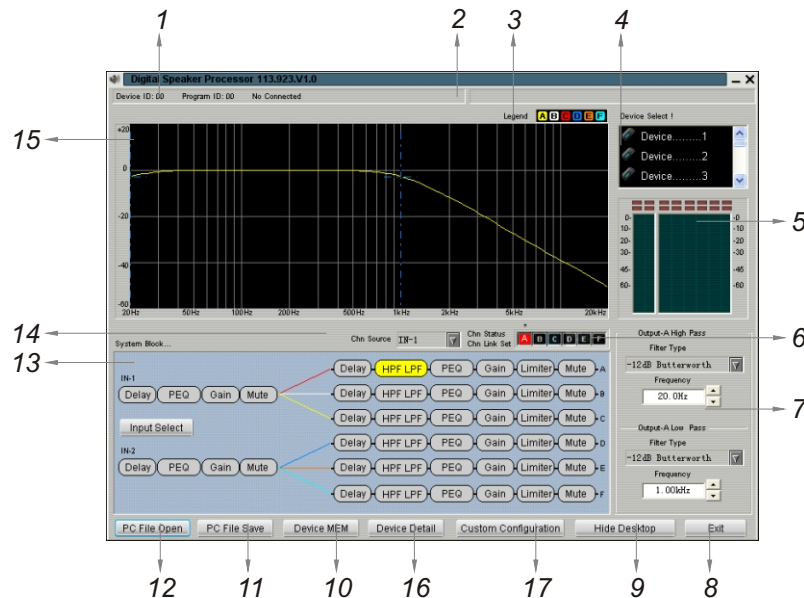


Use a computer installing control software , then it can control the facilities on RS485, and by USB which can connect into any facility on the net(The connecting facility to computer play the role as the general line of transistors of USB and RS485.

When plug USB into PC the first time, system prompt to install driver. you may select the special driver file from CD with control software. And If you install the USB driver successfully, Please be sure to DO NOT unconnect or powerdown the device when the control software is in connecting status, Elsewise, PC prompt serious error, and you should restart the control software.

9.4 Using of the software

When you finish the installation , run the controlling software and it will display the following page:



- 1). Display of status: Device ID. Program ID, Serial Port,
- 2). Indication of communication between this facility and computer: It displays OK normal communication, or ERROR for unmoral,
- 3). By different colors to identify the 15th curve of frequency response,
- 4). Device list, 2 times press No. of the device , then being ready to connect, and display the following interface:



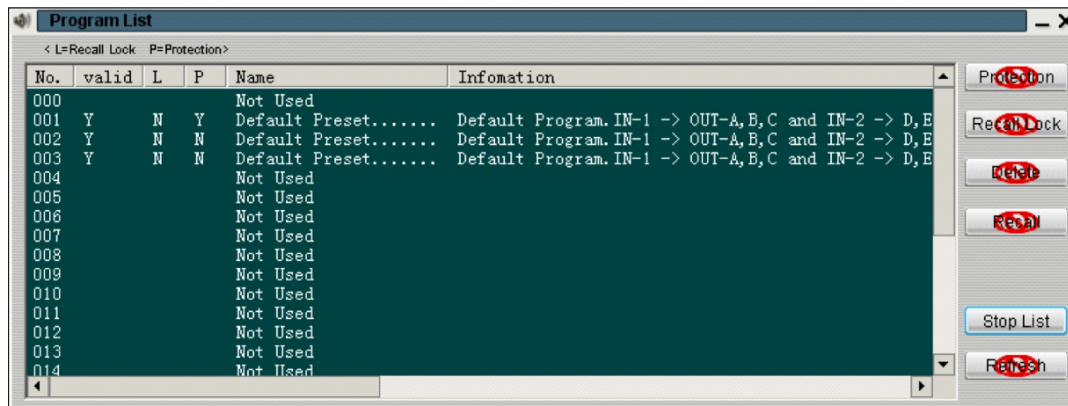
- **RAM: Date will lost if not saved when power off
- **FLASH: Save the user data permanence
- **FILE: In computer system operation

If online, press this device then show the "Disconnect with this device" information to process offline command.

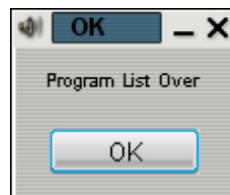
[Before connect, there have two option: Download data from PC to DEVICE---Indicate that download data have configed in computer, But only load into RAM. If to save datas, you should process the save operation(in Program menu); Upload data from DEVICE to PC indicate that load the current program using in device into PC to review or edit]

- 5). Input channels IN1, IN2 and output channels OUT-A, B ,C D,E,F indication of electric level,
- 6). Indicate the currently adjustable output channels(*marks) and connection status among all channels , one time press this area,
- 7). Parameters' adjustable areas, different parameters to different adjustable methods/types,
- 8). Break the current connection and out the programs,
- 9). Change to full screen status,

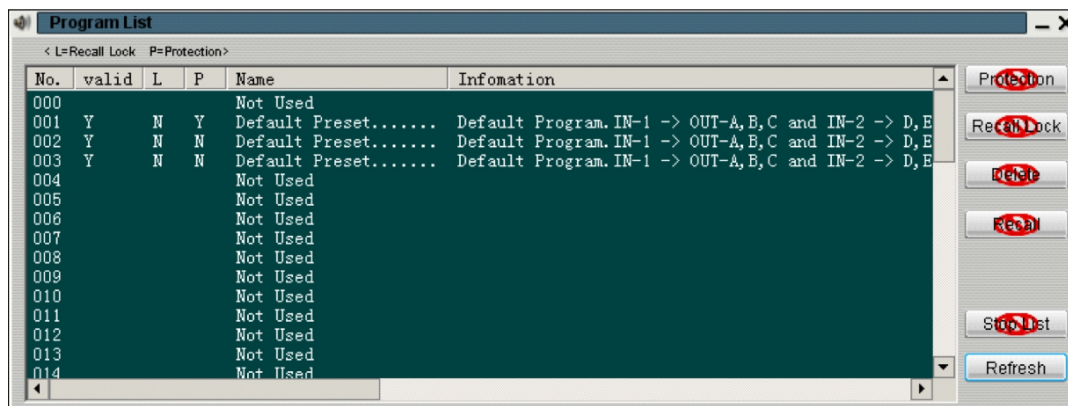
10). Program Operation Menu (effective only on line), after click, if choose " program List " order, then you can see the following interface:



after listing(Press " Stop List " during the listing, the Program List will end)show:



Press " OK " , then Show:

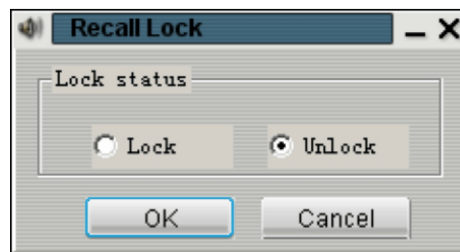


Red Marks on the right of button, Show no operation.

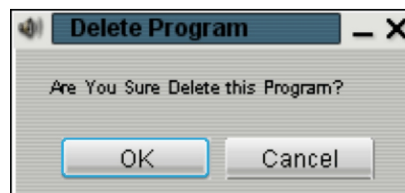
Protection: If set " Protection " ,the program can not be revised or covered.



RecallLock: Prohibit/ Permit to transfer the program via the panel key, if set " rohibit " ,you can not see the program on the Panel ,and even can not transfer the program..



Delete: the program protected will not be deleted

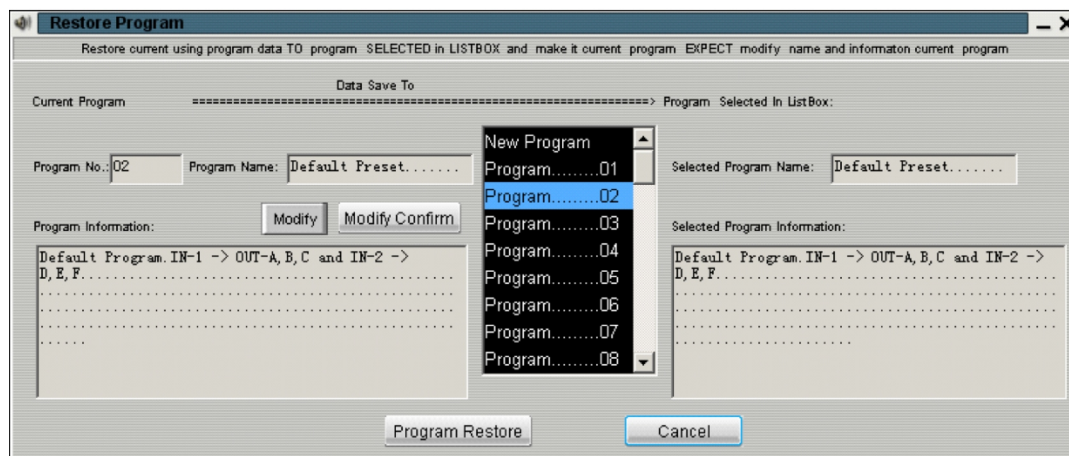


Recall: Press the " Recall " order, will implement the operation of Transferring Program, and set the choosing program as the current using program.

StopList: StopList Order only will be used in implementing List Program.

Refresh: Refresh Order only will be used in after List Program ending.

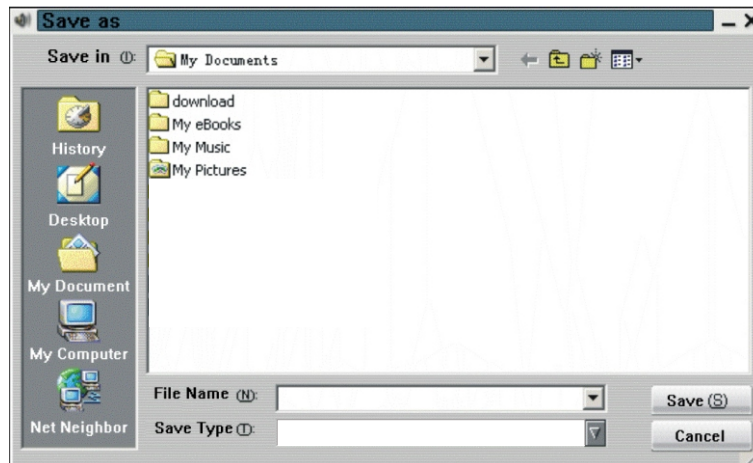
If choosing " Program Restore " order :



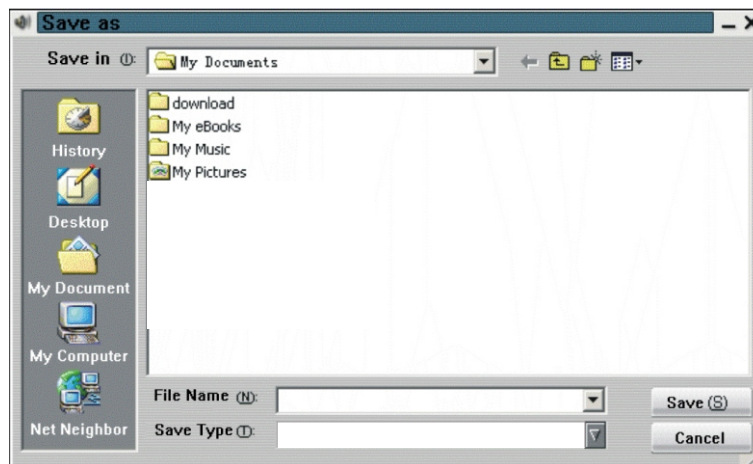
Save the current program to program number designated, if choosing the New Program ,and automatically use the new program number ,which is not being used, or otherwise save to program number designated.

You may press " Modify " to revise the program name and program information , and enter the contents in the Program Name column and Program Information Column respectively , after finishing, please press " Modify Confirm " to save.

11). Save the current configuration program to file, and click to show the following interface:



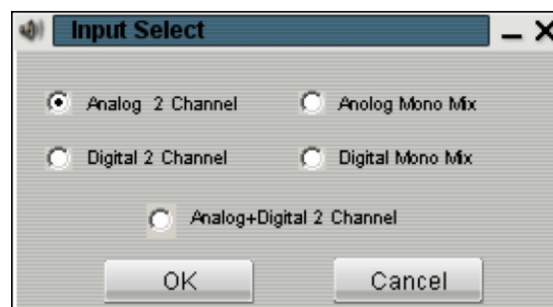
12). Open the program file in the computer, and click to show the following interface:



Choose the file, and press " Open Button "

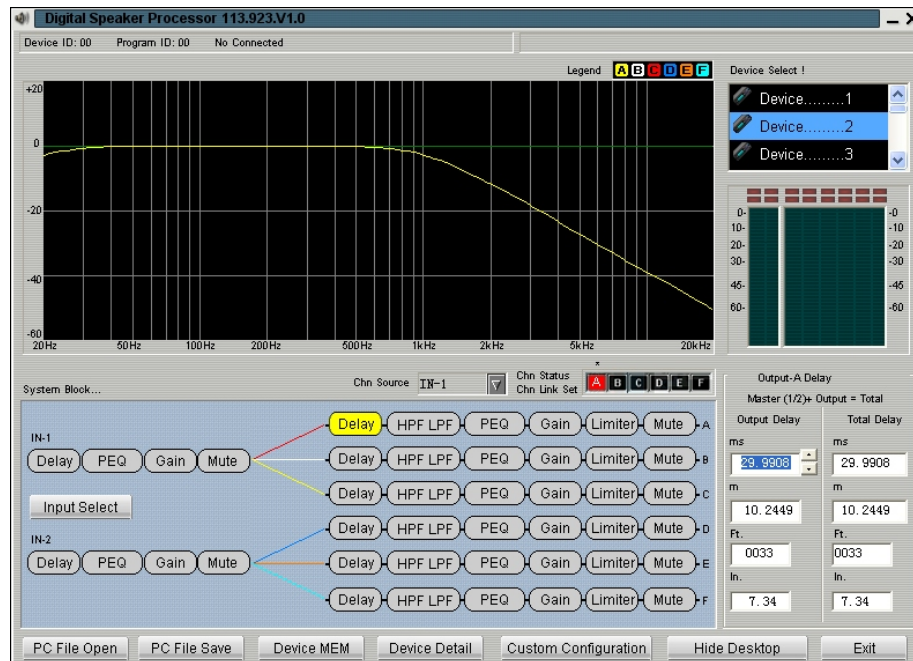
13). Signal processing procedure ,Function Module, Parameter Adjustment range
13.1 Enter mode choosing:

- (1) analog 2 Channel
- (2) Analog Mono Mix: IN1+IN2



13.2 Delay Adjustment Interface

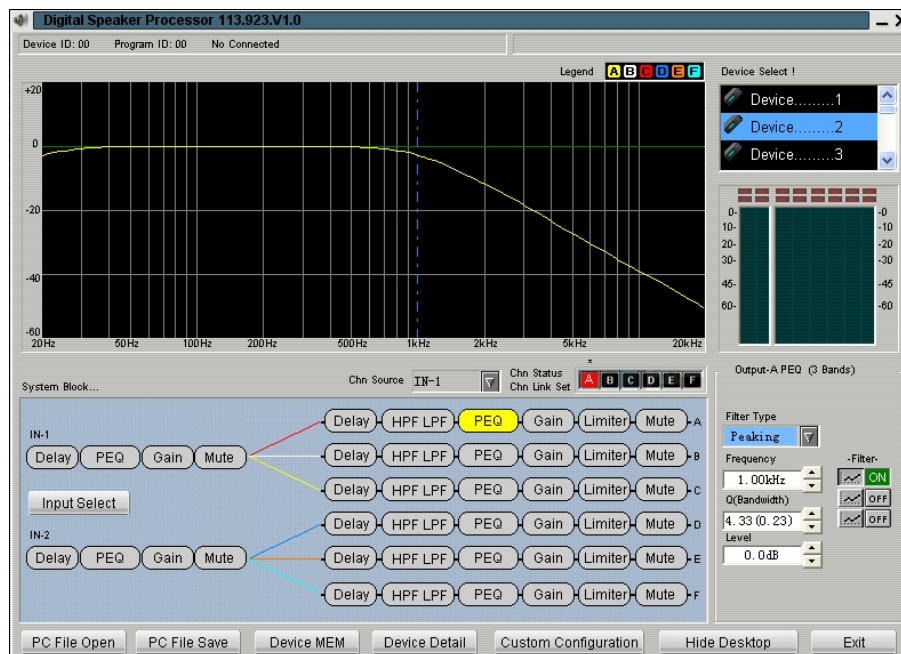
Right corner is the Delay Adjustment Interface, if change the delay time, and the interface shows the delay distance accordingly (Sound speed=340m/s).



13.3 PEQ Adjustment Interface

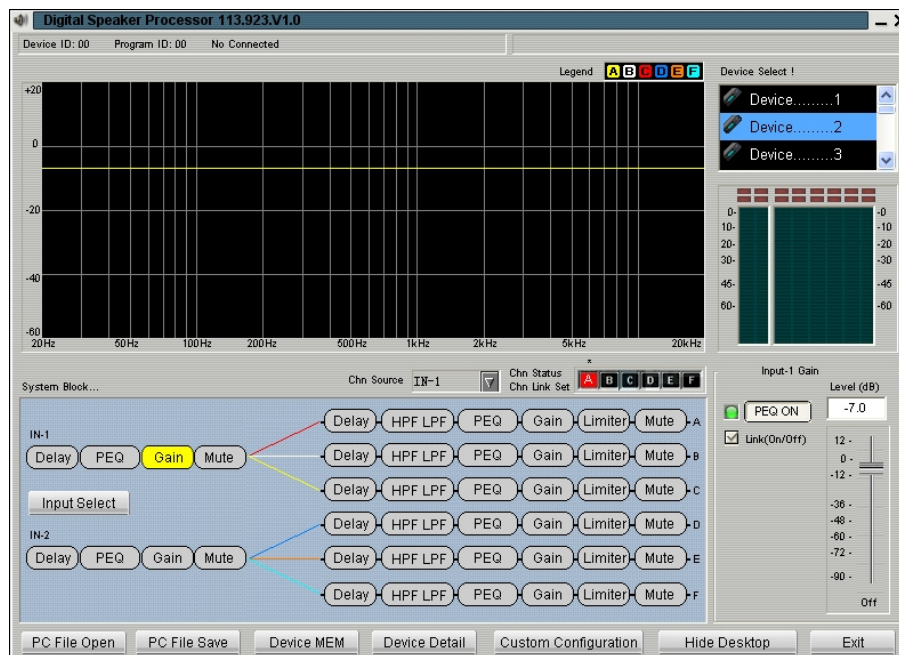
You can set PEQ Open/ Close and Link

Attention: Link setting is also effective to Enter Channel Gain.



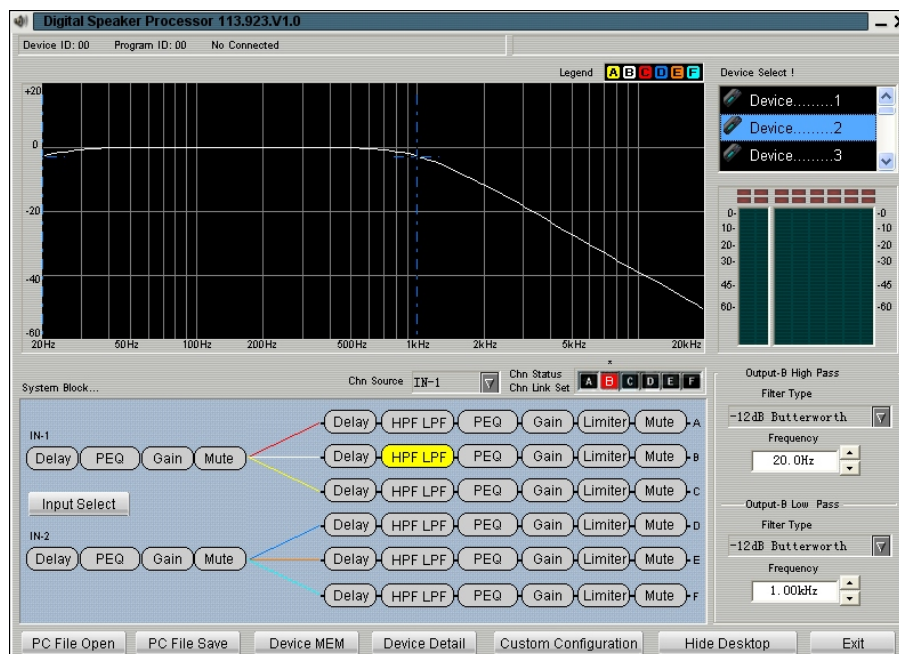
Only press the button, which show the Filter Curve accordingly, you can adjust the parameter (Filter Type, Central Frequency, Q/Bandwidth, Gain/Level).

13.4 Input Channel Gain Adjustment Interface:



13.5 Input Channel Silence , press " Mute " , and turn red to show the state of Mute, otherwise , it is no Mute.

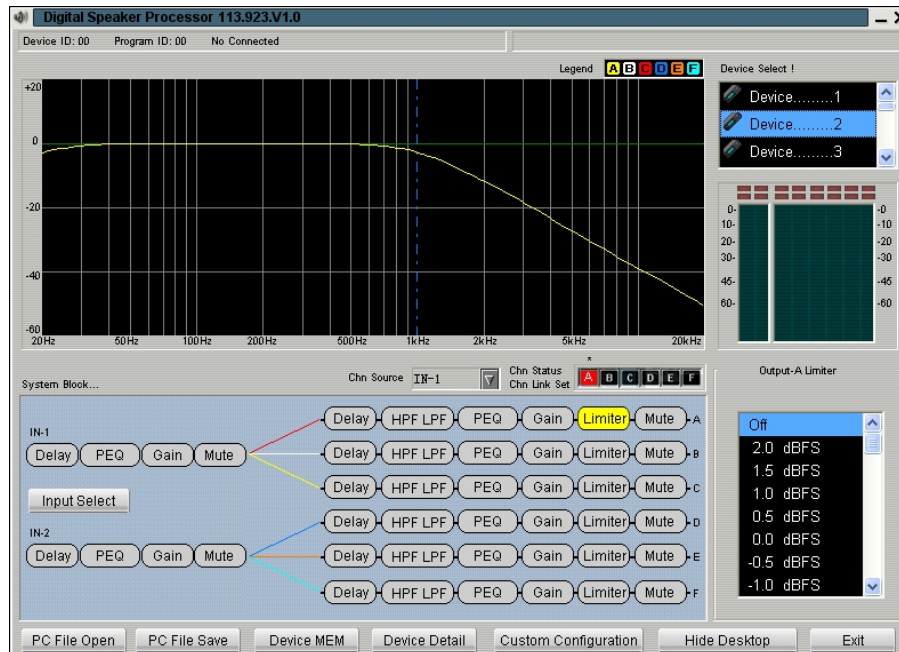
13.6 Output Channel Crossover setting Interface:



The above part is High Pass Filter (cut low frequency), the under part is Low Pass Filter (cut high frequency).

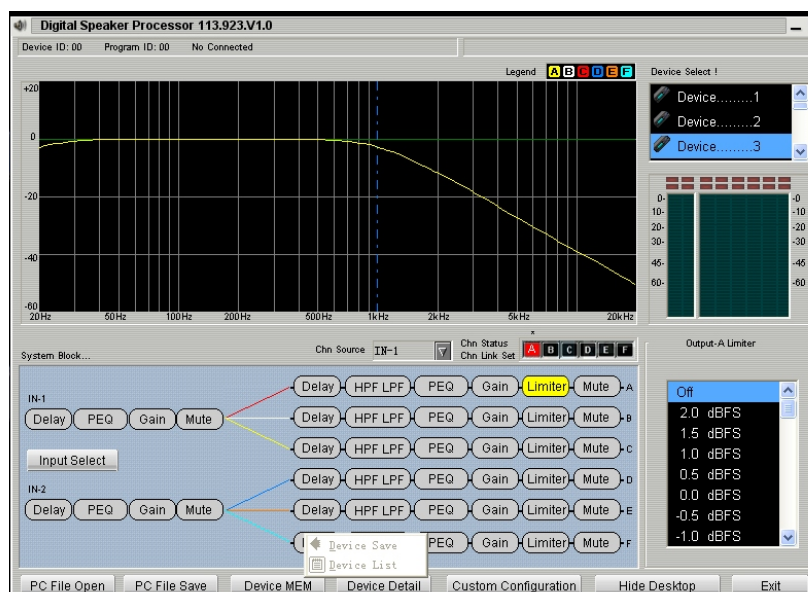
13.7 Output Channel Peak Limit Adjustment Interface

Adjustment Range :-24.0db~+2.0db, OFF, 0.5db for each step.

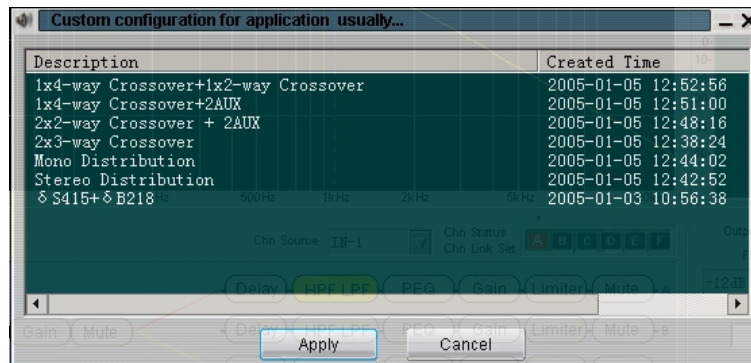


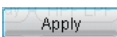
13.8 Output Channel " Mute " ,setting same as the INPUT CHANNEL.

- 14). Current output channel sound source choosing (Choosing IN-1,IN-2,OR IN-1+IN-2)
- 15). Frequency Response Curve showing range, Show the PEQ curve of the main channel IN-1,IN-2 and the Output Channel, and the curve of the HPF / LPF .
- 16). Click the button with mouse and then show the following interface.



17. Default configure adjustment: when it is in the off line status, click the button for showing following interface:



Select the default configure file which need to adjust, click button , returning to the main interface. Here, the parameter of the controller does not change. Click the command for login. Select download configure to controller. The parameter of controller will update after successful link, Audio process will be effective. Please check the other relevant illustration of further operation.

10.1 Audio relevant question

| | |
|---|---|
| <i>Disconnect :</i> | <i>Check the power cord is connected well or not? And the power button on the front panel is turn on or not?</i> |
| <i>Panel button operation error:</i> | <i>Check the lock button on the panel is flashing or not. And unit is locked status or not.</i> |
| <i>No Sound output :</i> | <i>Check the input/output is silent or not? The plus of input/output is weak or not? Check the selection sound source of each output channel. And confirm whether have signal to relevant input channel. If finished setting the crossover, confirm the closed frequency of high filter is lower than the closed frequency of low filter.</i> |
| <i>Overload indicator is flashing often :</i> | <i>Whether the input signal is over strong? (The max input signal is over 20dBu or not?). Whether the plus of Input/output increased much? Check the plus of parameter increased much.</i> |
| <i>Sound default :</i> | <i>Check the crossover setting if want output full range signal.</i> |
| <i>Noise :</i> | <i>Check whether the setting of input signal and plus is limited. And will get more plus from output. So do not try to adjust much the plus of the equipment and filter. That will caused the output noise being strong.</i> |

10.2 USB/RS-485 connecting problem

- 1). Check all the connecting wires, and make sure these are standard wires. Please check the back plate connecting terminal definition for the reference of connecting standard.
- 2). While many machines are connected with the head line(485), Please check the address pins of the machines, and make sure no conflict.
- 3). Check the USB port, Keep the hardware and software are in the same port.

10.3 BGM switch problem

- 1). Make sure BGM switch controlling terminal is connected well.
- 2). Make sure BGM switch controlling signal(difference between two lines) are between +5VDC--+48VDC.

Analog input

| | | |
|------------------------|---|---|
| <i>Terminal</i> | : | <i>Balanceable 6.35 Mic socket (BGM signal) and XLR-3-31 input socket</i> |
| <i>Input impedance</i> | : | <i>10K Ohm</i> |
| <i>Max input level</i> | : | <i>+20dBu</i> |
| <i>A/D conversion</i> | : | <i>Sampling frequency 64KHz, 24bits linear</i> |

Analog output

| | | |
|-------------------------|---|---|
| <i>Terminal</i> | : | <i>Balanceable XLR-3-32 output socket</i> |
| <i>Output impedance</i> | : | <i>47 Ohm</i> |
| <i>Load impedance</i> | : | <i>≥600 Ohm</i> |
| <i>Max output level</i> | : | <i>+20dBu</i> |

Analog Audio characteristics

| | | |
|--------------------------------|---|--|
| <i>Frequency response</i> | : | <i>20Hz-20KHz(+0.3/-0.3dB), 10Hz-30Khz(+0.3/-3.0dB)</i> |
| <i>S/N Ratio</i> | : | <i>110dB(A Weight)</i> |
| <i>THD+noise</i> | : | <i><0.006%</i> |
| <i>System min delay</i> | : | <i>1.2ms(signal output and input setting are " 0 " .)</i> |
| <i>Remote control terminal</i> | : | <i>RS-485/USB</i> |

Others

| | | |
|--------------------------------|---|-----------------------|
| <i>Power request</i> | : | <i>220VAC 50Hz</i> |
| <i>Power consuming</i> | : | <i>25W</i> |
| <i>Dimension(WXDXH)</i> | : | <i>482X44.8X228mm</i> |
| <i>Weight</i> | : | <i>4.7Kg</i> |
| <i>Operatating temperature</i> | : | <i>0-+40℃</i> |
| <i>Storage temperature</i> | : | <i>-10-+60℃</i> |

Accessories

| | | |
|--------------------|---|--|
| <i>Power cord</i> | : | <i>1 pcs</i> |
| <i>Fuse(spare)</i> | : | <i>500mA@250V AC delay/250mA@110V AC delay</i> |
| <i>User manual</i> | : | <i>1 pcs</i> |
| <i>CD</i> | : | <i>Including user manual, installation software etc.</i> |

Installation record: _____ Worker: _____ Tel: _____ E-mail: _____

Agent: _____ Tel: _____ Address: _____

System description(equipment, engineer request and its relevant information): _____

DEVICEprogram No.: _____ program name: _____

program panel is locked or not: _____

program information: _____

input selection: ☐ stereo, ☐ mono:

input channel1: Plus _____ dB, delay _____ ms, sound silence ☐ on ☐ off, channel click status ☐ on ☐ off

parameter equal filter 1, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 2, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 3, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 4, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 5, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 6, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 7, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 8, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 9, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 10, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 11, filter type _____ centre frequency _____ Q value/wide _____

input channel2: Plus _____ dB, delay _____ ms, sound silence ☐ on ☐ off, channel click status ☐ on ☐ off

parameter equal filter 1, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 2, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 3, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 4, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 5, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 6, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 7, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 8, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 9, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 10, filter type _____ centre frequency _____ Q value/wide _____

parameter equal filter 11, filter type _____ centre frequency _____ Q value/wide _____

Output channel A: Sound source ☐ IN1 ☐ IN2 ☐ IN1+IN2, output plus ☐ dB ☐ phase ☐ normal ☐ contrary output delay ms

parameter equal filter 1, filter type centre frequency Q value/wide

parameter equal filter 2, filter type centre frequency Q value/wide

parameter equal filter 3, filter type centre frequency Q value/wide

Crossover setting low pass type frequency low pass type frequency

Pressure limit value dBFS mute ☐ on ☐ off

Output channel B: Sound source ☐ IN1 ☐ IN2 ☐ IN1+IN2, output plus ☐ dB ☐ phase ☐ normal ☐ contrary output delay ms

parameter equal filter 1, filter type centre frequency Q value/wide

parameter equal filter 2, filter type centre frequency Q value/wide

parameter equal filter 3, filter type centre frequency Q value/wide

Crossover setting low pass type frequency low pass type frequency

Pressure limit value dBFS mute ☐ on ☐ off

Output channel C: Sound source ☐ IN1 ☐ IN2 ☐ IN1+IN2, output plus ☐ dB ☐ phase ☐ normal ☐ contrary output delay ms

parameter equal filter 1, filter type centre frequency Q value/wide

parameter equal filter 2, filter type centre frequency Q value/wide

parameter equal filter 3, filter type centre frequency Q value/wide

Crossover setting low pass type frequency low pass type frequency

Pressure limit value dBFS mute ☐ on ☐ off

Output channel D: Sound source ☐ IN1 ☐ IN2 ☐ IN1+IN2, output plus ☐ dB ☐ phase ☐ normal ☐ contrary output delay ms

parameter equal filter 1, filter type centre frequency Q value/wide

parameter equal filter 2, filter type centre frequency Q value/wide

parameter equal filter 3, filter type centre frequency Q value/wide

Crossover setting low pass type frequency low pass type frequency

Pressure limit value dBFS mute ☐ on ☐ off

Output channel E: Sound source ☐ IN1 ☐ IN2 ☐ IN1+IN2, output plus ☐ dB ☐ phase ☐ normal ☐ contrary output delay ms

parameter equal filter 1, filter type centre frequency Q value/wide

parameter equal filter 2, filter type centre frequency Q value/wide

parameter equal filter 3, filter type centre frequency Q value/wide

Crossover setting low pass type frequency low pass type frequency

Pressure limit value dBFS mute ☐ on ☐ off

Output channel F: Sound source ☐ IN1 ☐ IN2 ☐ IN1+IN2, output plus ☐ dB ☐ phase ☐ normal ☐ contrary output delay ms

parameter equal filter 1, filter type centre frequency Q value/wide

parameter equal filter 2, filter type centre frequency Q value/wide

parameter equal filter 3, filter type centre frequency Q value/wide

Crossover setting low pass type frequency low pass type frequency

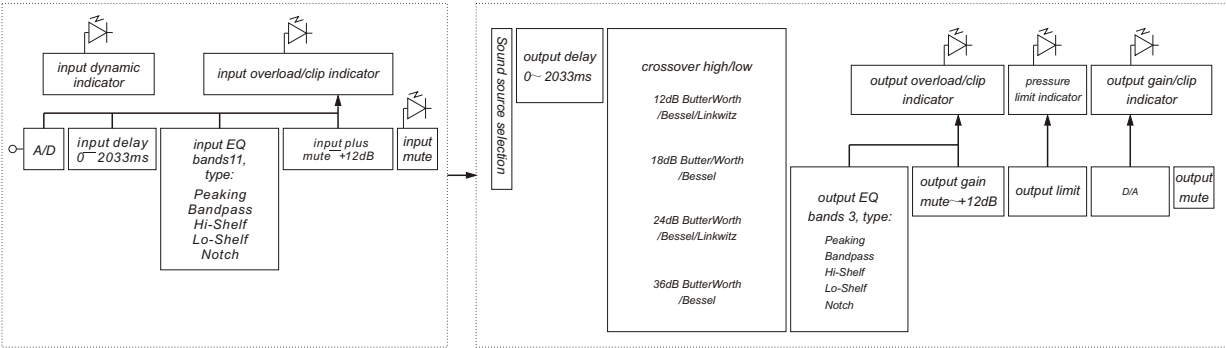
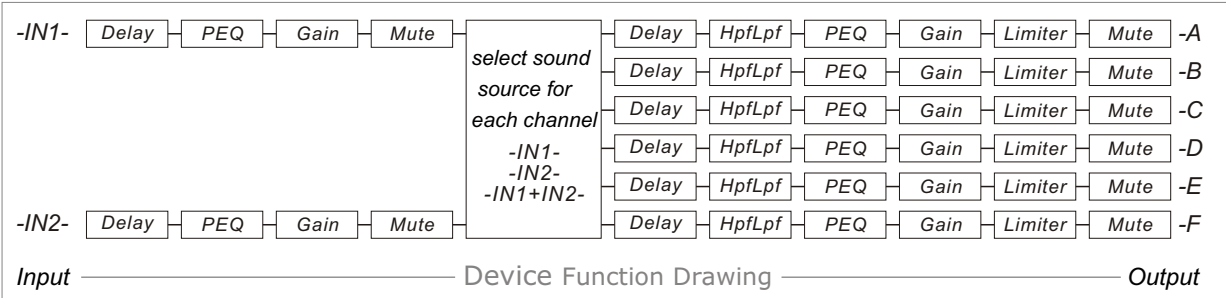
Pressure limit value dBFS mute ☐ on ☐ off

Output channel link status:

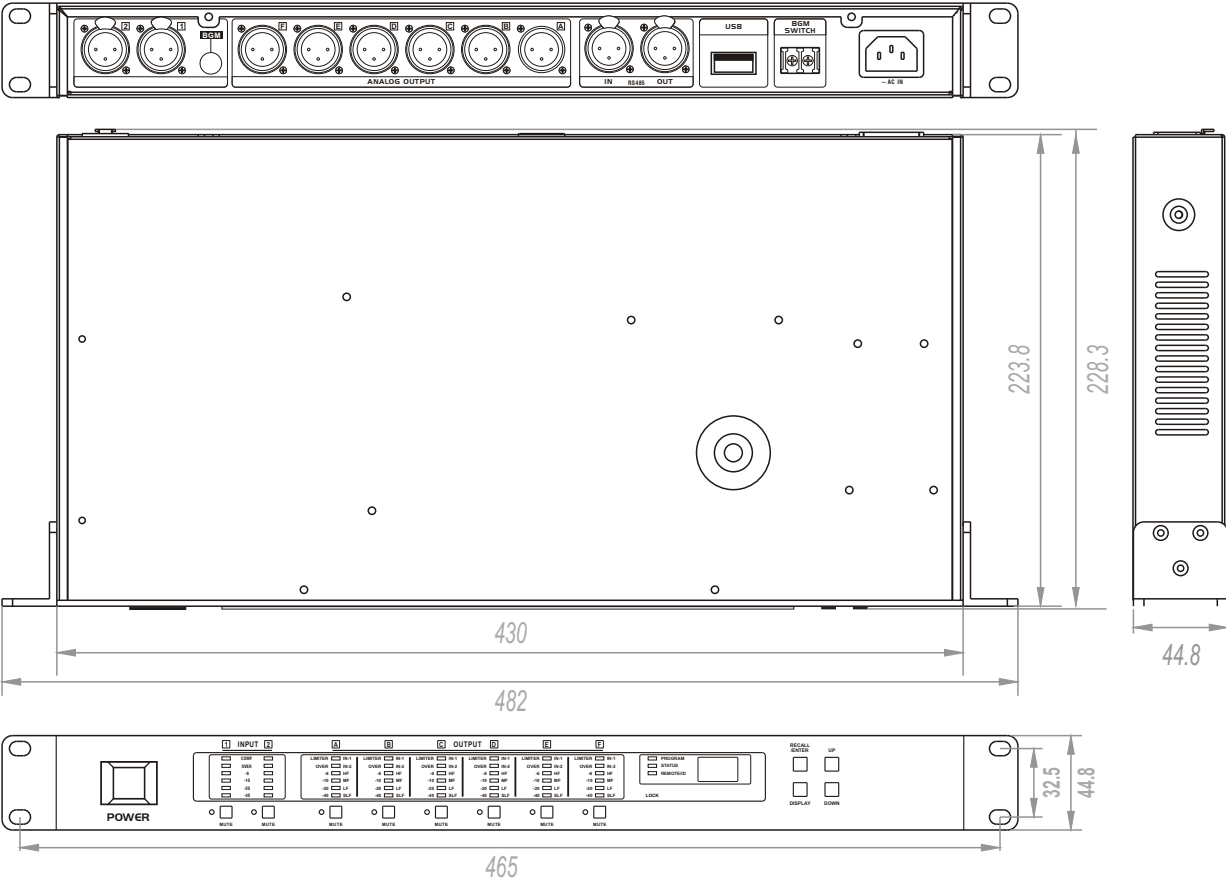
Other settings:

The panel operation is locked or not ID code

machinery infomation



14> Dimensions





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