

# Warranty Registration Card

## PROFESSIONAL PRODUCTS

By completing and returning your product registration card you will receive these important benefits:

- WARRANTY CONFIRMATION
- PRODUCT PROTECTION
- PRODUCT REGISTRATION

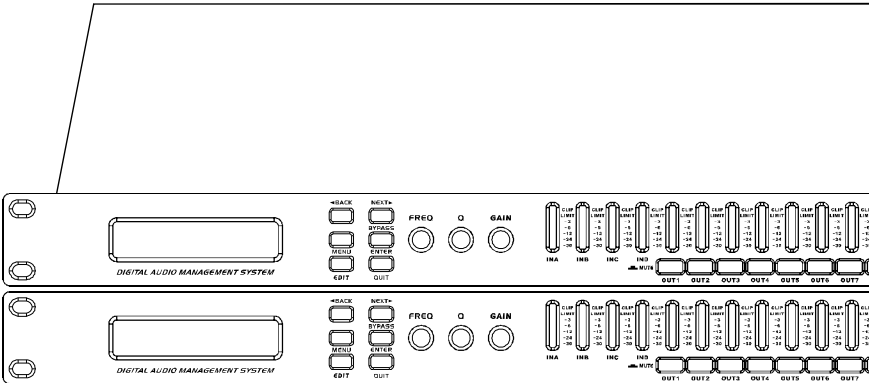
**PROFESSIONAL PRODUCTS**  
RIGHT RESERVED THE COMPANY TRADEMARK  
REGISTERED IN CHINA

Warranty Registration Card  
产品合格证 保修登记卡

First Class  
Postage  
Required  
Post Office Will  
not deliver  
without proper  
postage

# User Manual

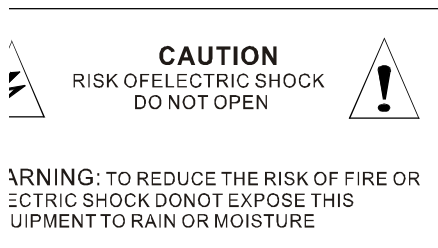
## Digital Audio Processor



**DP series**

DIGITAL AUDIO MANAGEMENT SYSTEM

# IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit.



The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the

## WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING:

PLEASE READ THESE INSTRUCTIONS

READ ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

DO NOT USE THIS APPARATUS NEAR WATER

WASH ONLY WITH A DRY CLOTH

DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER

DO NOT PLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

For all servicing to qualified service personnel, Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE:** Replace fuse with same type and rating only.

**UNITS WITH SELECTIVE-INPUT VOLTAGE:** This equipment requires a different fuse indicated on equipment rear panel depending on the voltage selector position. Refer servicing to qualified service personnel or equivalent.

**WARNING -** Do not place objects on the product's power cord, place it in a position where anyone could step on it, walk on it or roll anything over it. Do not allow the product to rest on it or to be installed over power of any type. Improper installations of this type create the possibility of fire hazard and/or personal injury.

## RETURN THIS CARD TODAY AND RECEIVE THESE IMPORTANT BENEFITS:

Warranty confirmation:  
your prompt product registration confirms your right to the protection available under the terms and conditions of your Company warranty.

Product protection:  
we will keep the model number and date of purchase of your Company electronics product on file to help you refer to this information in the event of an insurance claim such as theft or loss.

Product registration:  
thank you for purchasing our product. Filling out the attached card is the only way of insuring that we contact you in the event of safety, update, or other product issues that may arise.

User archives:  
Product king: \_\_\_\_\_ Product model: \_\_\_\_\_  
user unit name: \_\_\_\_\_ user unit telephone: \_\_\_\_\_  
User's complete address: \_\_\_\_\_  
your name: \_\_\_\_\_ the term of validity: \_\_\_\_\_  
date of purchase: \_\_\_\_\_

## PROFESSIONAL PRODUCTS

## Warranty Registration

### 产品合格证

### 保修登记卡（用户联）

产品编号: \_\_\_\_\_

尊敬的用户:

非常感谢您选用本公司专业舞台音响系列产品,产品出厂前为确保性能良好,已进行严格的品质检验.为了确保用户得到完善的售后服务,敬请注意以下事项:本公司本着“用户至上”的原则,向用户承诺如下:

- 1、产品保修期为一年,从购买产品开始保修卡之日起,产品如有损坏或者发生故障时,经本公司技术人员检查核实,非因错误操作所引起的损坏,凭保修卡享受免费修理和免费更换元件。  
(保修期满后,免收维修费仅收取合理的元器件成本费用)
- 2、在下列情况下,本公司将不予提供免费维修和免费更换元件:
  - a、产品曾因被错误操作而损坏,如过荷或反馈而烧坏;
  - b、产品曾因不小心搬运则摔坏;
  - c、产品曾被非本公司技术人员修理或改装。
- 3、本公司并不负责由于器材损坏而直接或间接导致任何的损失。
- 4、在您购买本公司产品后,请正确填写好“用户档案”留与当地经销商处存档,当您的产品需要服务时,凭保修卡与经销商联系,以便为您提供快捷的服务

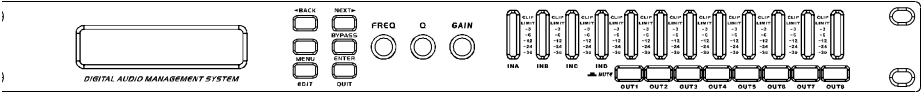
### 用户档案: 为方便阁下保修卡之储存,请用正楷中文填写

产品种类: \_\_\_\_\_ 产品型号: \_\_\_\_\_  
用户单位: \_\_\_\_\_ 用户单位电话: \_\_\_\_\_  
用户单位名称: \_\_\_\_\_ 用户单位电话: \_\_\_\_\_  
用户详细地址: \_\_\_\_\_  
用户签名: \_\_\_\_\_ 有效期: \_\_\_\_\_  
购买日期: \_\_\_\_\_

(用户填写好后,请经销商盖章生效)

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Thank you for choosing the dp480 speaker management system. This product will enable you to achieve the best possible performance from your loudspeaker system. You can also reduce the amount of outboard gear that is required to transport, set-up and operate as part of the sound system. The dp480 offers many powerful functions. It is highly recommended that you read through this manual before you begin connection and operation. For those that are familiar with this type of device or if you simply can't wait to know how good your system will sound, some terms that will be used in this manual:

**Configuration:** this refers to a particular group of settings, with the primary parameter being the crossover type. **Program:** a program is a configuration with either the factory default or a user-created one. **Configuration and program** may be used interchangeably, though a configuration must be programmed for a program to exist. **Parameter:** a component of a setting such as the center frequency or the band of parametric eq or the attack time of a limiter. **Balanced inputs:** as standard, the dp480 comes with electronically servo-balanced inputs. This circuit design features automatic hum and noise reduction for balanced signals and thus allows for trouble-free operation even at high operating levels. Externally induced mains hum etc. will be effectively suppressed. The automatic auto-function recognizes the presence of unbalanced connectors and adjusts the nominal level internally to avoid level differences between the input and output signals (section 6 db). **Low distortion high dynamic frequency response** 20hz~20khz, 30 is 4 input 8 output, include 10 configure modes: 4 x 2-way crossover; 2 x 3-way, and 2 aux; 2-way + mono sub; 2 x 4-way crossover; 1 x 5-way, and 3 aux; mono distribution; stereo distribution; with mono subs; 4 x 4 processor; muted, flat startup all the parameters of these preset modes are adjustable. each input channel includes input gain control each channel includes independent crossover controller. 5 bands parameter equalizer delayer maxim delay 7ms output gain and phase control parameters lock function to avoid misoperation. 32 usb interface remote control pc software included . 1 group parameter equalizer has 360 iso frequency points, gain is from -12db to +12db 1 group q value is from 0.5 to 128 and provide hi\_shelf lo\_shelf function. independent limiter attack time hold time decay time and threshold parameter flexible configuration. 1 channel high pass, low pass configured with 6db 12db 18db 24db 48db butterworth linkwitz riley bessel frequency response curve.

Inputs

Impedance : > 10 KΩohms Electron Balance Input  
CMRR: >65dB(30Hz-20KHz)  
Output Impedance<50Ωohms  
Source Imp: > 10 KΩ Electron Balance Output  
Max.Level: >Vpp=4V Balance, Vpp=7.6V Imbalance  
Frequency Resp: 20Hz-20.0kHz + 0.5dB

Outputs

Dynamic Extension

Distortion: >105dB(A weighted) 20Hz-20kHz 0.01%(THD)  
Maximum Delay: 7mS, The least adjusting distance 0.021mS  
Output Gain: -40dB to +6dB , in 0.1dB steps  
Input Gain: -40dB to +6dB , in 0.1dB steps

Parameter Balance Filter: 5 sect / Each way input , 3sect /each way output

Filter Gain: -40dB to +6dB in 0.1dB steps  
Freq Range: 20Hz-20kHz, 1/36 octave steps.(368 positions)  
Filter Q/BW: 0.5 to 128/2.0 to 0.008(Sections switched to shelving response)

High and Lowpass Filters

Filters: Each way output is with 1 HPF and LPF  
Freq Range HPF: 20Hz-20kHz, 1/36 octave steps  
Freq Range LPF: 20Hz-20kHz, 1/36 octave steps  
Responses Curve: Butterworth : 6dB 12dB 18dB 24dB 36dB 48dB  
Bessel: 12dB 18dB 24dB 48dB  
Linkwitz-Riley : 12dB 24dB 48dB

Limiter

Threshold: + 3dBu to -40dBu  
Attack Time: 1 to 100milliseconds  
Release Time: 2/4/8/16/32 ×Attack time 0~100mS

Display

20x2 blue back light white word LCD  
Input LED: -30dB,-24dB,-12dB,-6dB,-3dB,Limit, Clip  
Output LED: -30dB,-24dB,-12dB,-6dB,-3dB,Limit, Clip

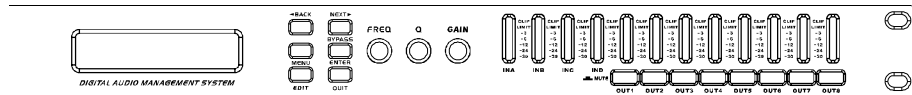
BLAK PANEL FEATURES

Inputs: 3 pin female XLR  
Outputs: 3 pin male XLR  
RS232: 9 pin DEE connector  
USB connector  
Power switch&IEC Socket

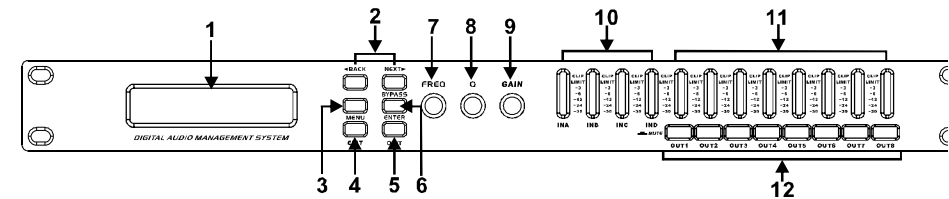
Electric Source

Input Electric Source: 95V to 250VAC 50Hz to 60Hz  
Fuse: T1.5A/250VAC  
Weight: 3.5KG  
Size: 482mm×210mm×44mm)

Note: Due to continuing product improvement the above specifications are subject to change

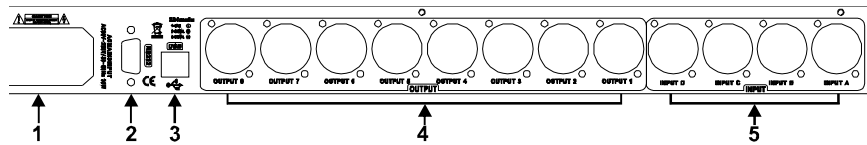


Parametric• Chose the excellent DSP decoder and 32 bit interior data channel which is especial wide dynamic extension and purity sound quality.  
 Input gain control for each channel, Separate crossover controller  
 Crossovers• 4 inputs 8 outputs and includes 10 configurations  
 Choice of Operating and Crossover Modes: 4 X 2-way,  
 X 3-way + 2 Aux, 2 X 4-way, 1 X 5-way + 3 Aux, Mono Dist.,  
 Stereo Dist., LCRS w/Mono Subs, 4 X 4 Processor, Muted/Flat Startup  
 Equalizers• 5 band fully parametric equalizer  
 Each group Q value is from 0.5 to 128 and provides Hi shelf/Lo shelf select function.  
 Each group parametric equalizer has 360 ISO frequencies with + or - 2dB gain  
 Separate limiter with Attack, Hold, Decay and Threshold parameters  
 High Pass and Low Pass filter avail for each channel @ 6 or 12dB slope  
 Choice of 6dB, 12dB, 18dB, 24dB, 48dB Butterworth, Linkwitz-Riley or Bessel frequency response curve  
 Delay• Driver Alignment Delay for each output up to 7ms in .1ms increments  
 Output gain and phase control  
 Three front panel encoders to speed programming  
 Protection• Security lockout to discourage system tampering  
 Connector• USB, RS-232 remote control PC interface (Windows compatible software included) windows 7, windowsXP, windows2003.  
 Memory for up to 30 on-board user programs USB and Rs232 connector, can connect the out-controller, friendly, intuitionistic computer operation view, as well as multilevel perfect security lock function.  
 Driver• 8X7 bit input/output precision digital LED meter.  
 20X2 Blue in a poor light white word LCD display, display more good-view.



1. LCD Display: The 2x20 backlit LCD displays the program and programming choices of the
2. <BACK/NEXT> Buttons  
These buttons allow navigation for selection of sub-menus and some parameter values.
3. Menu  
This is one of two buttons that will access the front panel programming. This one is used primarily to select which program to call up, edit or save.
4. Gain  
This is one of two buttons that will access the front panel programming. This, along with the <Back/Next> buttons accesses the various parameters of a program.
5. Quit: This exits the programming menu and returns the display to showing the selected pr
6. Enter: Hitting this button will write the current selection to memory, Using currently equilil parameter will be pass-by.( High-pass/low-pass filter and limiter can't pass-by)
7. FREQ Encoder Knob  
This acts as the main value selector dial for most parameters other than those associated with EQ, Q and EQ Gain.
8. Q Encoder Knob : This adjusts the Q of a selected equalizer band.
9. GAIN Encoder Knob  
This adjusts the Gain levels of Inputs, Outputs and any selected equalizer band.
10. Input Meters  
These display the levels of the four inputs. The seven LED lamps per display are in 6 dB steps from -30dBV to -6dBV, then -3dBV, then Limit (0dBV), then Clip (+8 dBV)
11. Output Meters  
These display the levels of the eight output channels. The seven LED lamps per display are in 6 dB steps from -30dBV to -6dBV, then -3dBV, then Limit (0dBV), then Clip (+8 dBV)
12. Output Mute Buttons  
Pressing one of these buttons will mute the respective Output channel and the LED will illuminate. All outputs will mute automatically during certain program selection and editing processes, to protect the loudspeakers

## ack Panel Control Introduction



### Power Jack

This accepts a standard IEC type AC bayonet plug. Because the unit uses universal switching power supply, no voltage selection is required. The ON/OFF power switch is also located here.

### RS232 Interface

Connect this to the serial port on a PC using the included cable or other standard DB-9 type cable. With the software installed, the PC can now monitor and program the equipment. (Windows 7, windows xp, windows2003)

### USB Interface

USB connector \_ connecting with personal computer.

(Windows 7, windows xp, windows2003)

### XLR Outputs 1-8

XLR style output \_ each way frequency output is with 3 core of XLR plug.

Each port is balance , 2 feet are hot end , 3 feet are cold end , 1 foot is screen

(connect with grounding) end.

### XLR Inputs A-D

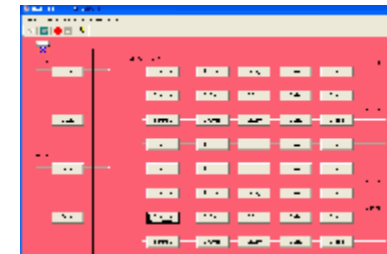
These are balanced Input (Pin 2 Hot) XLR inputs that accept the signal from the

Outputs of the mixer.

## software installation instructions

1. Insert with equipment machine incident software CD-ROM to PC, open the cd-rom drive disc within the data files to click inside 4In8OutSetupV103. Setup program for installation, always press "next" button until the installation is completed and install USB is V1.20 Installer (USB Driver) program, finish after installation can directly use the software.

2. From the start of the application 4In8Out Processor v103 menu found open softw



3. Click Config drop-down menu of RS232 port set menu, select the same and the processor device ID number to control the corresponding equipment, up even machine256 sets, COM choice refers to the processor and PC computer through connected to the ports of the Settings, respectively, if a choice to choose the right port equipment can be normal connection, and if the equipment and PC port sett not correct,cannot connect, must change another port until right before connecti

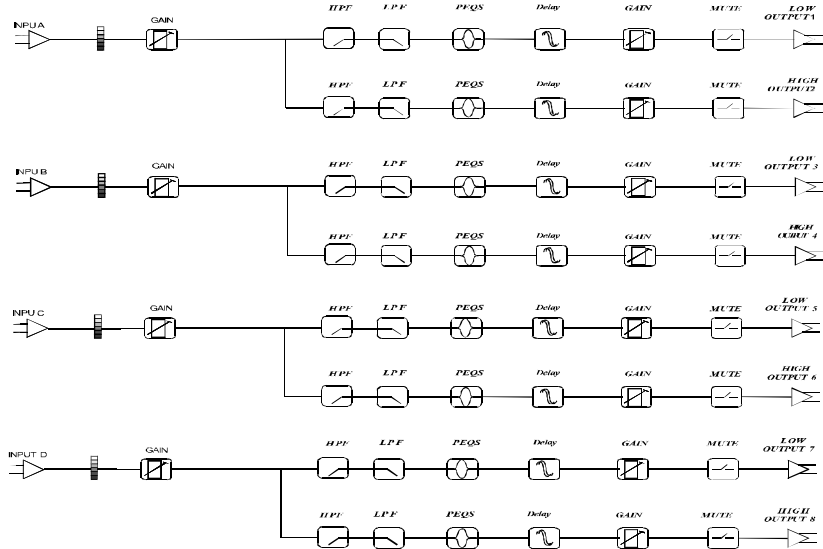


4. Every time setting a good port pressed after the config drop-down menus ONLin if the connection success will display, rather than; After the success of the avai software to connect all the parameters adjustment processor control

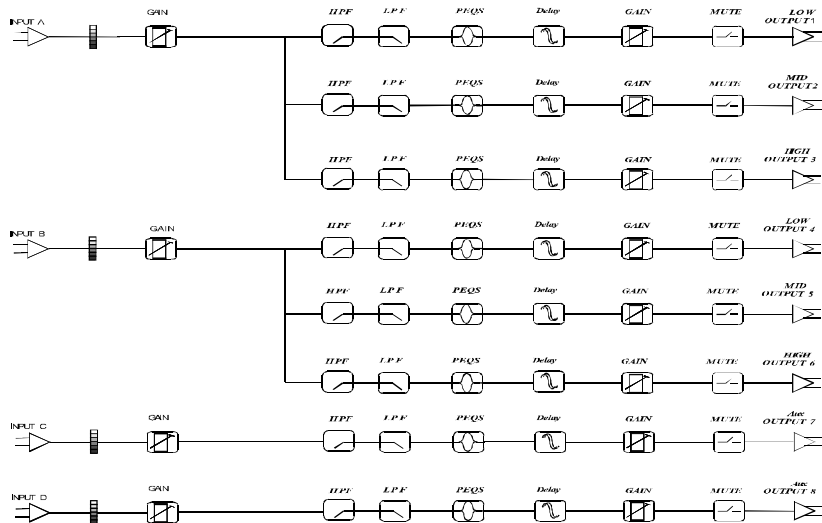


5. Software to apply the following PC computer systems use: Windows 98, ME, 2000, XP and 2003.

## x 2-way Crossover



## 3-way, and 2 Aux



## OPERATION

## 1. Xover Menu

Press the <MENU> button, the display will appear as follows:

MAIN MENU: .....  
Xover Sub-Menu

Press <ENTER> button to enter the Xover submenus.

Xover Menu: .....  
Load a Xover

Press <NEXT> or <BACK> button, you can navigate forward or backward the Xover submenus: Load a xover, Design a xover, Store a xover and Erase a xover. Confirm by pressing <ENTER> button.

Load a Xover: Recall a stored xover mode.

Design a Xover: Design a crossover mode by press <ENTER> button including the mode type, stereoLinks, input channel select for the specific modes..

Store a Xover: You can save up to 20 programs. Press the <ENTER> button for saving the desired program number via the <FREQ> encoder. In order to move the cursor (e.g. For entering the next letter or correcting the last letter.), Press the <BACK>/<NEXT> buttons. Confirm your entry by pressing the <ENTER>. Store a crossover program only including the settings in this section. The length of name of the user memory can reach 16 characters.

If store without naming, the system store it with the corresponding mode name by default.

Erase a Xover: Select the desired program via the encoder or <NEXT> or <BACK> button and confirm with the <ENTER> button.

## 2. Security Menu

Access the Security Menu page as the following display.

MAIN MENU: .....  
Security Sub-Menu

Press the <ENTER> button, the display will appear as follows.

Security Menu: .....  
Unit Lock

Press the <ENTER> button to select one of the following lock types:

Change only: The parameters can be viewed but not changed. Mute is active.

Changes + View: The parameters cannot be viewed or changed. Mute is active.

Changes + Mute: The parameters can be viewed. Changes and Mute are inactive.

Everything: Everything is locked.

Confirm with one type. Press <ENTER> button to access the password set page.



Enter Security Code  
[1234]

- 1. Move the cursor via <BACK> or <NEXT> button. Edit the password by turning the <FREQ> encoder.
- 2. Press <ENTER> button to access the password confirm page as follows.

Confirm Security Code  
[1234]

- 3. Repeat step 1 operation, then press <ENTER> button. Only when the twice passwords are completely same, the lock operation is valid. Otherwise it would fail.
- System Menu
- Press the Security Menu page as the following display.

MAIN MENU: .....  
System Sub-Menu

- Press the <ENTER> button to the System Submenu page. Press <NEXT> or <BACK> button, you can navigate forward or backward the system submenus:
- 1. Set Option, Wake-up Time.
  - 2. Set Option: Switch the stereo link between channels A and B, C and D on or off.
  - 3. Set Wake-up Time: Via this menu, you can adjust how the controller reacts after turning on.
  - 4. Set Fade-in: when turning on, the outputs gradually increase to the preset level.
  - 5. Set Fade-out Hold: all outputs remain muted.
- Interface Menu
- 1. Remote ID number is the address of this device to be identified by PC at the beginning of data communication. Please refer to the PC software for corresponding information. Access the Interface Menu page as the following display.

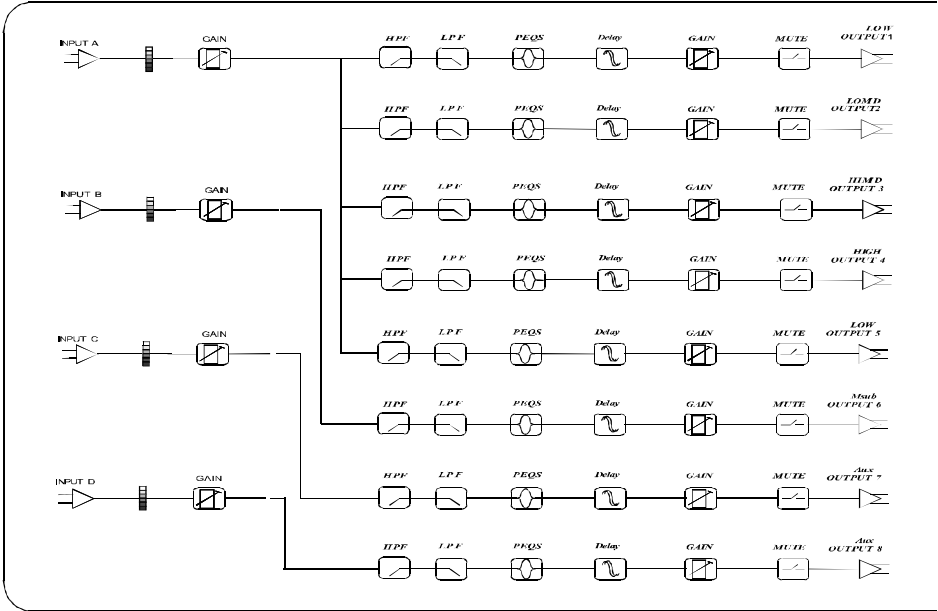
MAIN MENU: .....  
Interface Sub-Menu

- Press <ENTER> button to access the following page.

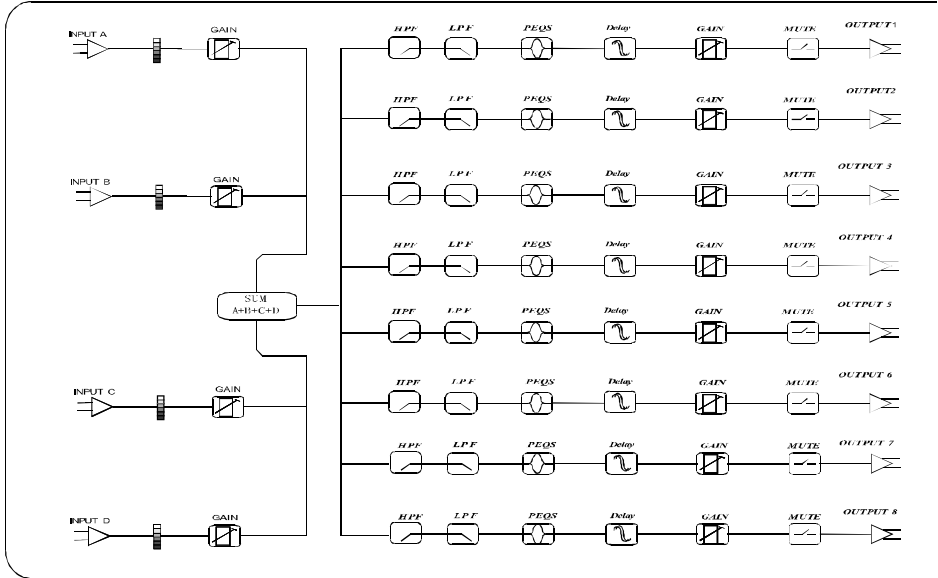
INTERFACE Menu ...  
Interface Setup

- Press <ENTER> button again. You can choose remote ID number from 1 to 64 via <EXT>, <BACK> OR <FREQ> encoder in the following page.

1 x 5-way, and 3 Aux

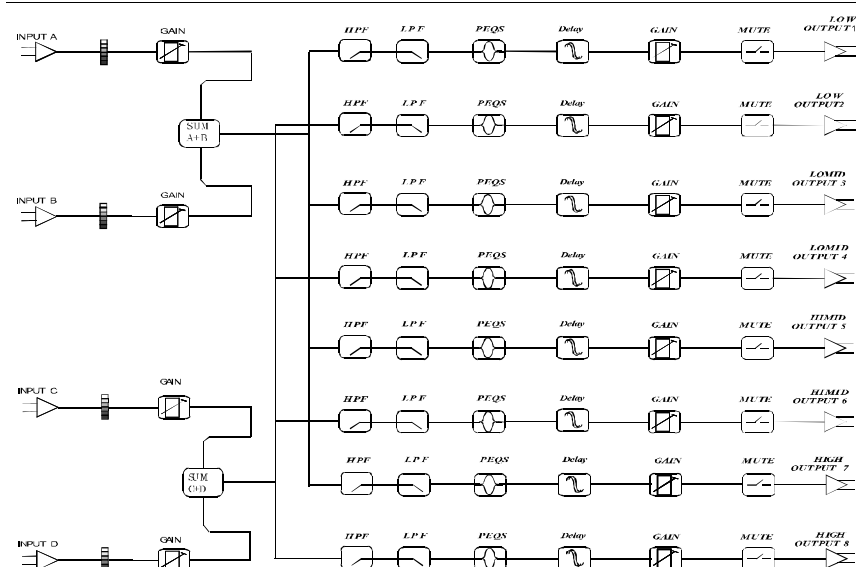


Mono Distribution

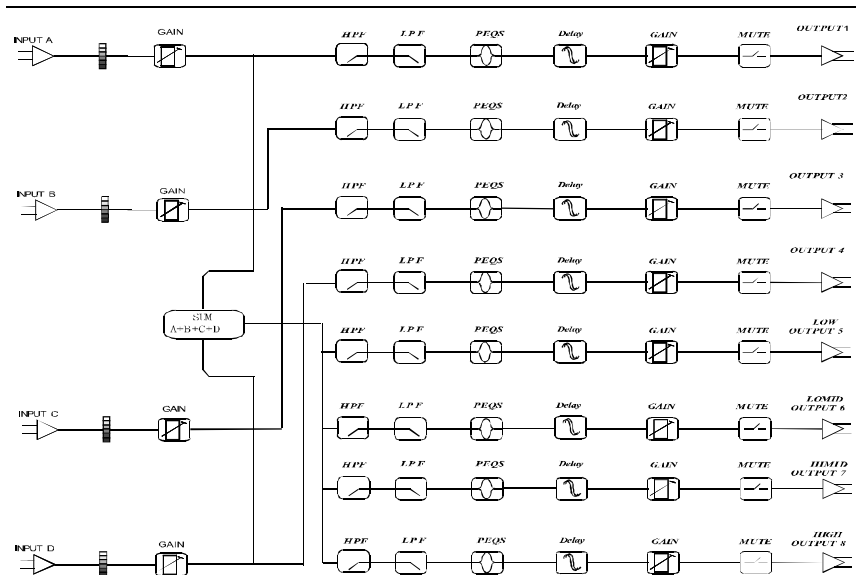




## Stereo Distribution



## Stereo with mono subs



*Interface Setup.....*  
*Remote ID Num = 1*

## 5. Parameters Menu

Press the <GAIN> button to access the Parameters Menu.

A. Input and Output channel selection & Gain

Press <NEXT> or <BACK> button to choose among input A, input B, input C, input D or output 1 channel. At the same time, the selected channel page is with Gain function as follows.

*Input A Gain*  
*Gain=0.0dB*

You can adjust the input level from -40dB to +6dB in 0.5dB step via <FREQ> encoder. The display shows if the inputs are linked with each other. If linked inputs, the gain is adjusted for their linked inputs. Press the <GAIN> button to access other output channels from 2, 3 ... 8, 1 circularly at the output 1 page.

The display shows if the inputs are linked with each other. For linked outputs, the parameters are adjusted for the linked outputs.

*Op4 low Gain*  
*Gain=0.0dB*

## B. Output Phase

The polarity of every output can be inverted. If the polarity of a linked output will be inverted, the polarity of the other channel will also be inverted.

*Op1 low Gain*  
*Polarity=[+]*

## C. Delay

The delay is to compensate differences in the distances between different speaker systems or speaker systems at different installation spots.

Turn the <FREQ> to adjust the selected channel delay time from 0ms to 7ms in 0.5ms step. The corresponding distance in meters and feet also are displayed as follows.

*Op1 LOW Delay*  
*0.0ms 0m 0.0ft*

## Operation Introduction

### HPF & LPF

HPF stands for High Pass Filter, LPF for Low Pass Filter. Each channel has its independent HPF and LPF that can be accessed by pressing <NEXT> or <BACK> button as the following displays.

**Op1 High HPF**  
**4.00KHz FLAT THRU**

**Op1 High LPF**  
**4.00KHz Butwth 24dB**

1 <FREQ> encoder to adjust the frequency whose range is from 10Hz to 16.0kHz for HPF, 35Hz to 22.0kHz for LPF.

1 <GAIN> encoder to choose the filter type and slope. The available slopes are listed below: Flat Through, Butterworth 6dB, Butterworth 12dB, Butterworth 18dB, Butterworth 24dB, Butterworth 48dB, Bessel 12dB, Bessel 18dB, Bessel 24dB, Bessel 48dB, Linkwitz-Riley 24dB, Linkwitz-Riley 48dB.

Equalizer

There are five parametric equalizers per output that can be selected via <NEXT> or <BACK> button. The display is something like as follows.

**Op2 LOW PEQ:2**  
**2.00KHz Q=3.0 +0.0dB**

1 <FREQ> encoder to adjust the frequency whose range is from 20Hz to 20.0kHz.

1 <GAIN> encoder to adjust the gain whose range is from -12dB to +12dB in 0.1dB steps.

1 <Q> encoder to adjust the gain whose range is from 0.5 to 10, including self and Loshelf. Press <ENTER> button to bypass PEQ indicated by "=" symbol in the upper right corner of the display.

1 when gain is +0dB at the Q value page, you can select Hishelf/Loshelf

1 <Q> encoder. The symbol "H" indicates Hishelf, "L" Loshelf.

1 on the HISHF/LOSHF page, the <Q> encoder is active, i.e. You can return to the Q value setup from HISHF/LOSHF page. The range of Hishelf frequency is 1.0k~20.0kHz, Loshelf 20.0Hz~1.0kHz.

1 ATTENTION: Only when gain is +0dB at the Q value page, you can select Hishelf/Loshelf

1 <Q> encoder. The symbol "H" indicates Hishelf, "L" Loshelf. Only when

1 gain is +0dB, at the HISHF/LOSHF page, the <Q> encoder is active, i.e. You can return

1 to the Q value setup from HISHF/LOSHF page. The range of Hishelf frequency is

1 ~20.0kHz, Loshelf 20.0Hz~1.0kHz.

Limiter

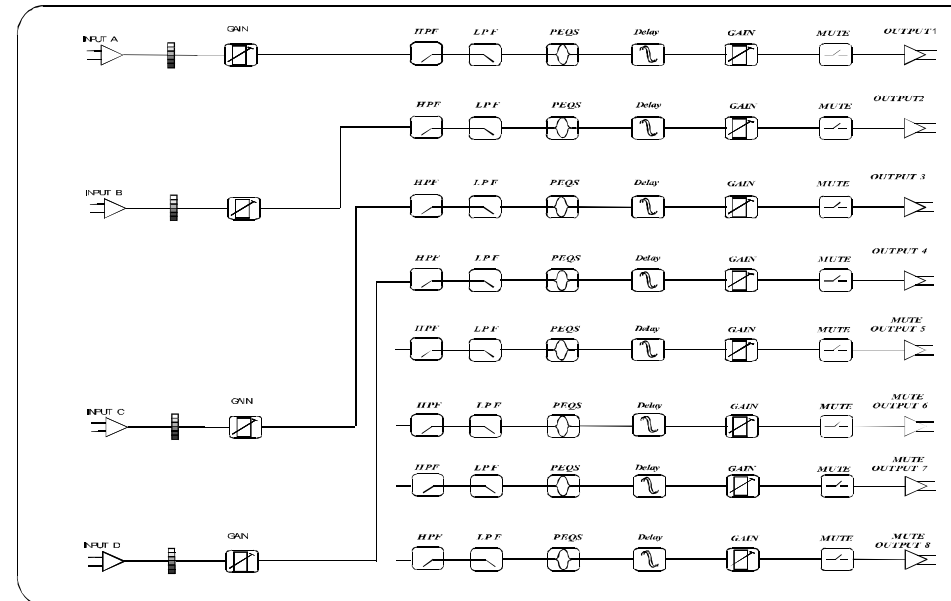
There is one independent limiter for each output channel. The limiter serves as an optional clipping protection to avoid speaker damage. The signal level is always limited to the adjusted threshold level. In most cases, it is sufficient to adjust the threshold value to the clipping level of the connected amplifier. Nevertheless make sure the amplifier does not distort.

Access the Limiter page via <NEXT> or <BACK> button. Turn the <FREQ> encoder to adjust the limiter from -20 to +15dB.

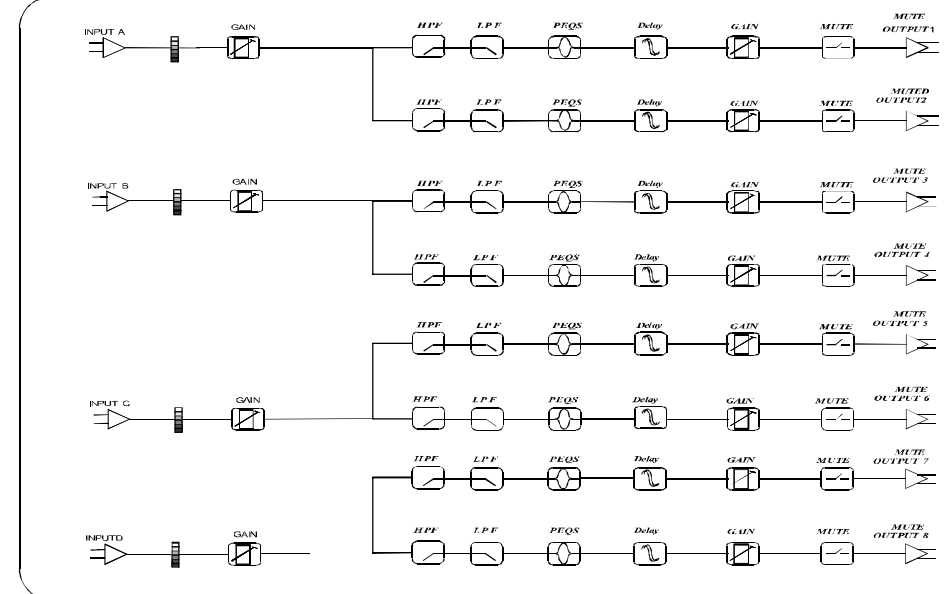
**Op3 Mid limiter**  
**Level=0.0dB**

## Hpf&lpf Frequency

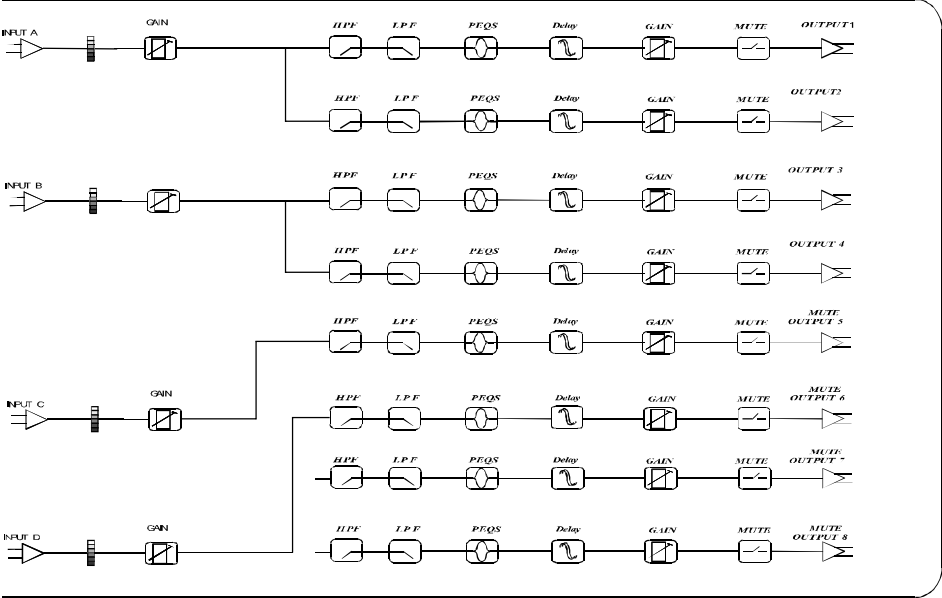
### 4 x 4 Processor



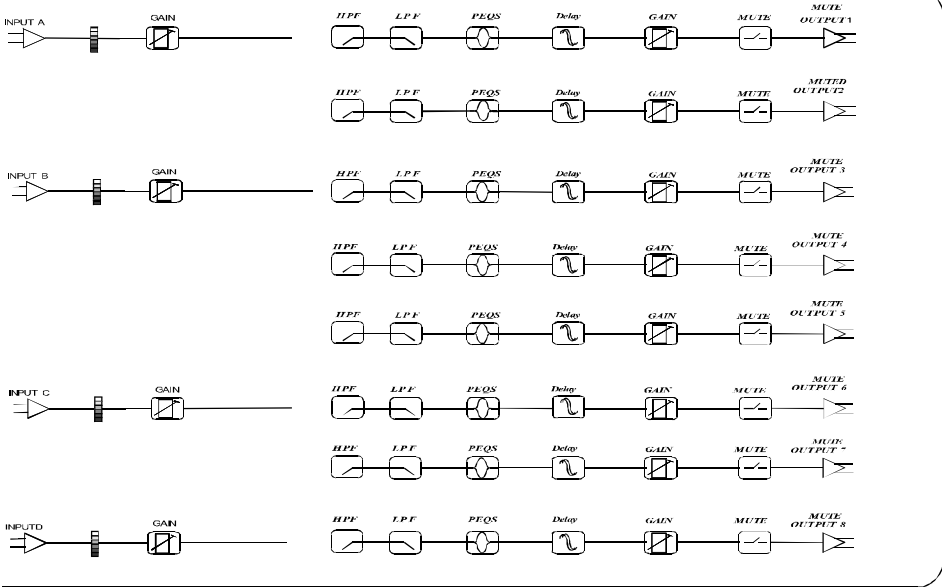
### 3x6 Processor



Processor



ED FLAT STARTUP



The limiter also include Attack, Hold and Decay time. Enter them via <NEXT> or <BACK> button.

*Op3 Mid limiter*  
*ATTACK=12ms*

*Op3 Mid limiter*  
*hold=0.0ms*

*Op3 Mid limiter*  
*Decay=120ms*

You can adjust the Attack time between 1 and 100ms, Hold time between 0 and 10 Decay time between 10 and 1000ms.

G. Name  
You can select the best fitting name from a preset name list via the <FREQ> encoder.

*Op2 Name*  
*Name: Low*

H. Source  
You can check the input sources for each output but not change it. Access the source page for different output channel via <GAIN> button.

*Op4 High source*  
*source: A*

I. Copy Output Data  
You can copy all the setups of one output channel to the other output channel. Access the Copy Output Data menu.

*Copy Output Data*  
*[Enter] to copy*

Press <ENTER> button. The display is as follows:

*Source Output :[1]*

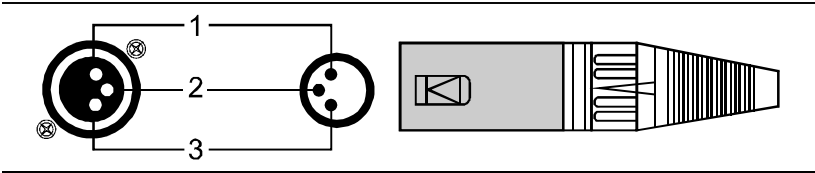
eration Introduction

the <FREQ> encoder to select the source channel you want to copy. Then press <ENTER> button. The display is something like this.



the <FREQ> encoder to select the destination channel of the copy operation. Press <ENTER> button to finish the operation.

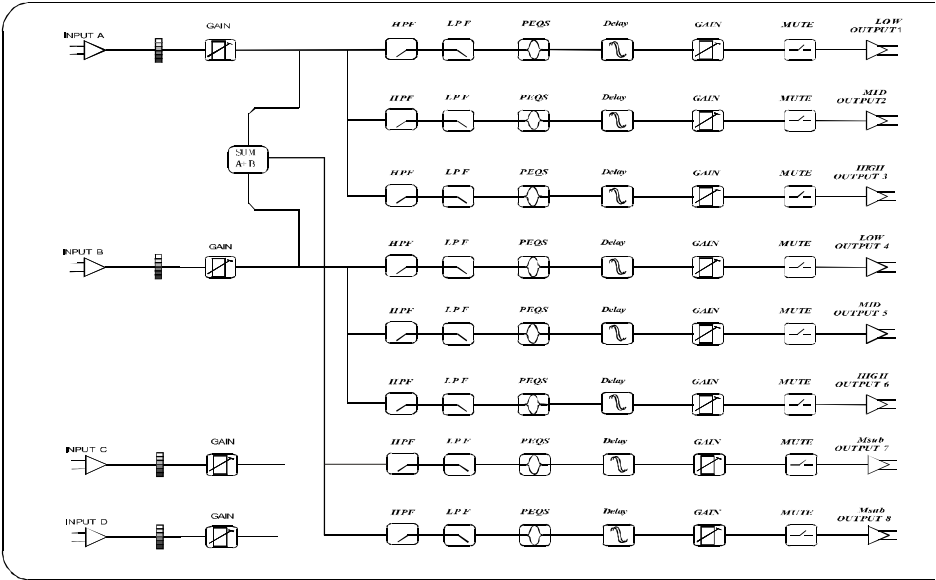
NECTORS  
processor must be installed using standard 3-pin type XLR jacks. Although the inputs are fully balanced, the automatic servo-functions allow them to operate with unbalanced source/loads. Audio outputs also use XLR jacks.



Hpf&lpf Frequency

Appendix 1: Flow Chart

2 x 3-way + mono sub



2 x 4-way Crossover

