

# XP Series

## Loudspeaker Management System

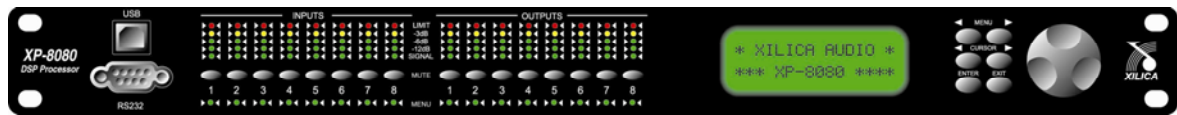
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### QUICK START GUIDE 快捷控制设置

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*XILICA Audio Design*



## 如何可以方便快捷控制设置您的 XP 音箱控制器

史力卡音频设计公司设计开发的 XP 控制器在操控方面极之方便及简单，用户可以透过 XP 本机面板控制或是透过随机的 PC 计算机软件控制：

如通过 XP 面板控制控制，主是分为两部份操控

### (一) 是主系统方面 (面向面板 LCD 显示屏右手面的 2 行 X 3 键)

即是关于主体控制方面，

按下 ENTER 使可进入主系统控制部份，内里包括-Recall 呼叫节目，Store 储存节目，Config 分频设置，（如 2、3、4 分频），Copy 通道复制设置，General 系统通用单位设置，Secure 保安锁定设置等。

用户可按一下 右下边的 Enter, 再按一下 上方 << Menu >> (菜单键) 选择以上各项目的设置，之后按中间行两个 << Cursor >> 键，选择需要设置的项目，再转动 右面大圆旋钮便可设置各项目。

### (二) 通道参量设置 (有关各通道自己的参数)

以右手按下在右面大圆旋钮键旁的<< Menu Control>>菜单控制键同时，左手按下需要修改的通道，便可以对各通道进行设置。正进行修改的通道下面的绿色 LED 灯会发亮，表示通道正在修改中。（如果需要两个或以上通道一起连锁设置，用户可以按下右手按下在右面大圆旋钮键旁的 Menu Control 的同时，再按下各个需要修改参量的通道 Mute 键），之后按下<< Menu >>或<< Cursor >> 键到需要修改参量项目中，转动大圆旋钮键便可对各通道作如下的设置：

各通道参量可修正如下：

-音量设置 Level +15 至 -40 db, 再按<< Cursor >> 向右, 相位 +/- 再>>向右, 延时 0 – 1300 ms

-再按一下<< Menu>>、<< Control>>及大圆旋钮键，便可设置均衡器 EQ 1 至 8 的参量

-再按一下 << Menu >> 便进入 XOVER 分频器设置，按下 << Cursor >> 及大圆旋钮键，便可设置滤波器类型（或 OFF 直通），低端分频频率 FRQL，分频斜度 SLPL、FTRH 高频端滤波器类型，FRQH 分频频率、分频斜度 SLPL。

-再按一下 << Menu >> 便进入，限幅器 LIMIT、THRESH 门限 -20 至 +20dbu，再按下 << Cursor >> 及大圆转动键，便可设置 ATTACK 起动时间 0.3 - 100ms，RELEASE 释放时间 200ms - 3200ms。

-再按一下 << Menu >> 便进入 通道声源，选择 ON 输入声源，OFF 不输入声源，可单独或合并声源。

再按一下 << Menu >> Name 设置通道名称，转动大圆旋钮键选择 A - Z

设置完成之后，按一下右下边的 Enter 键跳出设置，回到主显示，再按 Enter，按 << Menu >> 右键一次，见到 Store 储存节目，共可储存 30 个节目，按 << Cursor >> 之后便可设置节目名称，最多 12 英文的字符，最后按 Enter 2 次，便可把节目储存。

**修改节目参数之，一定要把节目储存下来，修改节目才不会丢失。否则关了电源之后，XP 便回复原先上次未修改前的设定。**

## 快速设置参考

各通道设置：

- **音量 LEVEL:**

按 Menu Control 及通道键： 到达 Level 音量转动大圆旋钮键设置音量

- **改变通道相位 POL**

按 Menu Control 及通道键 < Cursor > 转动大圆旋钮键设置 + 正相/- 180 度反相

- **延时 DELAY**

按 Menu Control 及通道键 > Cursor > Cursor > 转动大圆旋钮键设置 0 - 1300ms

- **均衡器 EQ1 至 8 按 Menu 键的右边 键 1 次，便可到 EQ 菜单**

按 Menu Control 及各通道键 > Menu > Cursor > 设置电平 > Cursor > 设置频率 > Cursor > 频宽 (Q 值) Cursor > 均衡器类型 PEQ 参量均衡，Lo-Shf 低频端 或 Hi-Shf 高频端。

- **分频点 XOVER (按 Menu 键的右边 键 2 次，便可到 分频菜单)**

按 Menu Control 及通道键 > Menu > Menu > 转动大圆旋钮键设置 及 Cursor > 设置其它参数

- **限幅器 Limiter (按 Menu 键的右边 键3 次, 便可到 限幅器菜单)**

按 Menu Control 及通道键 > Menu > Menu > Menu > 转动大圆旋钮键设置 及 Cursor > 设置其它参数

- **音源 Source (按 Menu 键的右边 键 4 次, 便可到 音源菜单)**

按 Menu Control 及通道键 > Menu > Menu > Menu > Menu > 转动大圆旋钮键设置及 Cursor > 设置 On /Off

- **通道名称 Name (按 Menu 键的右边 键 5 次, 便可到 通道名称菜单)**

按 Menu Control 及通道键 > Menu > Menu > Menu > Menu > Menu > 转动大圆旋钮键设置及 Cursor > 设置

## 主系统设置

- **呼叫节目 Recall**

按 Enter > 转动大圆旋钮键 选择节目号码及名称

- **节目储存 Store**

按 Enter > Menu > 转动大圆旋钮键选择节目储存号码及名称

- **立体声 2, 3, 4 设定 Config**

按 Enter > Menu > Menu > 转动大圆旋钮键选择 None 不设置, Stereo 2 way 或 Stereo 3 way, Stereo 4 way

- **通道复制 Copy**

按 Enter > Menu > Menu > Menu > 转动大圆旋钮键选择 SOURCE 源通道, 可选择任何输入或输出通道, Cursor > 转动大圆旋钮键选择 TARGET 目标信道, 可选择任何输入或输出通道

- **改变系统通用参量单位设置 Generl- 频率如步进速率, 延时显示单位, XP 机号设置**

按 Enter > Menu > Menu > Menu > Menu > FREQ MODE 频率步进设计, 转动大圆旋钮键可设置 36/OCT 或 All 全频率

再按 Cursor > DELAY UNIT 延时时间单位 转动大圆旋钮键可设置 ms 微秒/ ft 尺/ m 米。

- **改变系统 COMM 如端口选择, XP 机号等设置**

再按 Cursor > DEVICE# 设置 本机号数 由 1 = 16 是给计算机软件时用, 计算机软件可同时控制多至 16 台 XP 机

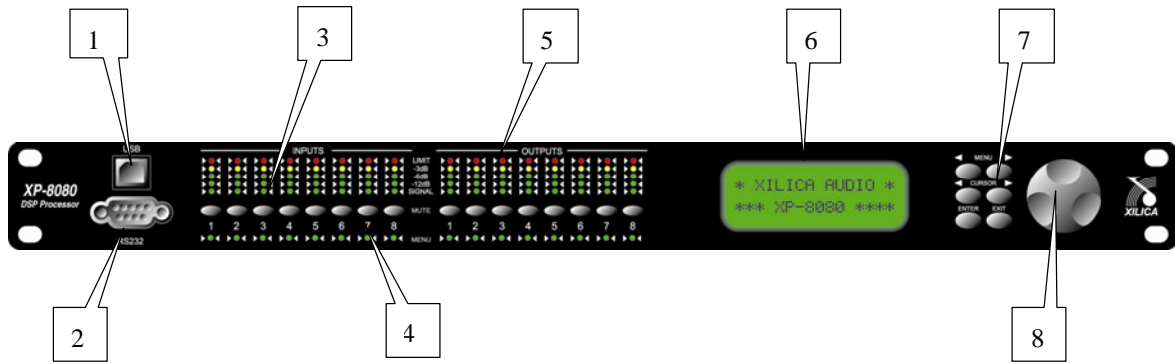
- **保安功能设置 Secure**

按 Enter > Menu > Menu > Menu > Menu > Menu > Secure, PASSWORD 输入密码 (预设为不用输入任何文字) 再按 Enter > Enter 2 次, XP 便锁定了。

解除保安功能设置, 也如上一样做一次

**注: 只有通过 PC 计算机软件才可以修改密码, 同时只可锁 XP 而不会锁 PC 计算机软件。**

**\*\*在 Menu Control 下的一个 Speed 系统/速度键作用是可加快参量调节的速度, 在修改参量, 转动大圆旋钮键 同时按下 Speed 键, 可加快参节速度。**



## Front Panel Function

1. USB – a standard Type B USB connector. Device driver from the provided software CD must be installed prior to usage.
2. RS232 – a standard female DB9 socket. A straight through cable is required for PC connection.
3. Mute (Channel Menu) Buttons – Mute or un-mute input and output channels. When an input channel is muted, a red LED will come on for indication.

When the <<Menu or Menu>> key is held down, the Mute Buttons selects the corresponding channel for the LCD menu display and is acknowledged by a green LED below the button. The last modified menu will be displayed on the LCD. Multiple channels can be linked or unlinked by pushing the desired channels. This eases programming for same parameters across multiple channels. Multiple Inputs can be linked together and multiple outputs can be linked together. Inputs and Outputs are linked separately.

4. Channel Menu LED – Indicates the activated channels for data modification.
5. Peak Level LED – Indicates the current peak level of the Signal: Signal, -12dB, -6dB, -3dB, Over/Limit. The Input Limit LED references to the device's maximum headroom. The Output Limit LED references to the threshold of the output limiter.
6. LCD – Shows all the necessary information to control the unit.
7. Menu Buttons – There are 6 menu keys: <<Menu (Menu Down), Menu>> (Menu Up), <<Cursor (Cursor Down), Cursor>> (Cursor Up), Enter/Sys/Speed, Exit. The functions of each key is explained below:

<<Menu: Go to previous menu screen. Holding this button down while pressing Mute key will go to the specify channel menu.

Menu>>: Go to next menu screen. Holding this button down while pressing Mute key will go to the specify channel menu.

<<Cursor: Go to previous cursor in the menu screen.

Cursor>>: Go to next cursor in the menu screen.

Enter/Sys/Speed: Enter is used only in the System Menu to proceed with selected actions.

Sys enters the System Menu from the main menu.  
Speed modifies delay and frequency (1 Hz resolution mode) data values by 100X.

Exit: Exit to the Main Menu.

8. Rotary Thumb Wheel – Changes parameter data values. The wheel has travel velocity sensing which ease large incremental data modifications. For modifying delay and frequency (1 Hz resolution), pressing the Speed key simultaneously will increment/decrement the data value by 100X.

## Operating the Channel Menus

Channel Linking – While holding down the <<Menu or Menu>>, more than 1 channel from the same group (Input or Output group) can be selected to link the channels together. The green LEDs below the **Mute** buttons are lit for the linked channels. Any modification of the data for the selected channel will be applied to the linked channels as well. To cancel the linking, simply deselect the desired channel while the <<Menu or Menu>> key is still pressed, or just press the **Exit** key to deselect all channels.

### Input/Output Signal

#### LEVEL:

The level (or gain) ranges from -40.00dB to +15.00dB in 0.25dB steps.

#### POL:

The polarity (or phase) can be normal (+) or inverted (-).

#### DELAY:

The maximum delay permitted is 650ms, in steps of approximately 10us. It can be displayed in ms, ft or m. The time unit of the delay is set in the **System Menu**. Please refer to page 21 for more details.

### Input/Output Equalizer

EQ#: Each input channel has 8 bands of equalization. This control selects one of the 8 available bands.

#### BYPASS:

This control will un-bypass (Off) or bypass (On) the currently selected band.

TYPE:

The 5 types of EQ that can be used are: parametric (PEQ), low shelf (LO-SHF), high shelf (HI-SHF), 1<sup>st</sup> degree all-pass (AP-1), and 2<sup>nd</sup> degree all-pass (AP-2).

FREQ:

The EQ center frequency ranges from 20Hz to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps can be selected in the **System Menu**. Please refer to page 21 for more details.

BW:

The EQ bandwidth ranges from 0.02 to 3.61 octaves in steps of 0.01 octave. The equivalent Q value is automatically shown besides the octave value. For 1<sup>st</sup> degree all-pass (AP-1) filter, the bandwidth will sets the phase shift at the centre frequency. This phase shift is gradually changed from 180 degrees above the centre frequency to the specified value.

LEVEL:

The EQ level (or gain) ranges from -30.00dB to +15.00dB in 0.25dB steps.

### **Input Graphic Equalizer**

GEQ#:

The graphic equalizer has 31 bands of equalization from 20Hz to 20kHz. This control selects one of the 31 available bands. The frequency corresponding to each band is also shown.

LEVEL:

The GEQ level (or gain) ranges from -30.00dB to +15.00dB in 0.25dB steps.

BYPASS:

This control will un-bypass (Off) or bypass (On) the entire GEQ for this channel.

### **Input/Output Crossover**

TYPL:

The 3 available filter types for the low frequency crossover point (high pass) are: Butterworth, Linkwitz Riley or Bessel.

FRQL:

The filter cut-off frequency for the low frequency crossover point (high pass) ranges from 20 to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps can be selected in the **System Menu**. Please refer to page 21 for more details.

SLPL:

The filter slope for low frequency crossover point (high pass) ranges from 6 to 48dB/octave. If the selected filter type is Linkwitz Riley, the available slopes are 12, 24, 36 or 48 dB/octave only.

TYPH:

The 3 available filter types for the high frequency crossover point (low pass) are: Butterworth, Linkwitz Riley or Bessel.

FRQH:

The filter cut-off frequency for the high frequency crossover point (low pass) ranges from 20 to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps can be selected in the **System Menu**. Please refer to page 21 for more details.

SLPH:

The filter slope for high frequency crossover point (low pass) ranges from 6 to 48dB/octave. If the selected filter type is Linkwitz Riley, the available slopes are 12, 24, 36 or 48 dB/octave only.

### **Input Compressor**

THRESH:

The compressor threshold ranges from -20 to +20dBu in 0.5dB steps.

ATTACK:

The compressor attack time ranges from 0.3 to 1ms in 0.1ms steps, then ranges from 1 to 100ms in 1ms steps.

RELEASE:

The compressor release time can be set at 2X, 4X, 8X, 16X or 32X the attack time.

RATIO:

The compressor ratio is the slope in which the signal is compressed. It ranges from 1:1 to 1:40.

### **Input/Output Channel Name**

NAME:

A 6 characters name can be assigned to each channel.

### **Output Limiter**

THRESH:

The limiter threshold ranges from -20 to +20dBu in 0.5dB steps.

ATTACK:

The limiter attack time ranges from 0.3 to 1ms in 0.1ms steps, then ranges from 1 to 100ms in 1ms steps.

RELEASE:

The limiter release time can be set at 2X, 4X, 8X, 16X or 32X the attack time.

### **Output Source**

IN1-8:

This sets the input channel source for the current output channel. It can be used to mix the input source (in dB) or disable it (Off). If more than one input sources are enabled, they will be added together as the source for the current output channel.

## Operating the System Menus

The **System Menus** allow the user to control and change parameters that are related to the system behavior and general operation. It can be accessed by pressing the **Sys** key in the main menu (when no Input/Output or System Menu is activated). All System Menus require pressing the **Enter** key to confirm and save the settings.

### Preset Recall

The XP has a built in non-volatile memory that can store up to 30 different preset setups.

P:

This control selects which program to recall from the non-volatile memory. The program name is displayed to the right of the program no.

### Preset Store

The XP has a built in non-volatile memory that can store up to 30 different preset setups. A program can be stored using this menu. The old program with the same program number will be replaced. Once the program is stored in the flash memory, it can be recalled at a later time, even after power down.

P:

This control selects which preset location in the non-volatile memory to be saved.

NAM:

A descriptive name of up to 12 characters can be assigned to each program.

### Security Lock

The XP enables the user to secure the unit and prevent undesired changes in the setup. In order to lock or unlock the unit the user must enter the correct password. The user can only lock or unlock all menus using the front panel, XConsole is required to lock or unlock individual menu.

PASSWORD:

The password is 4 characters in length. The factory default of a new unit does not require a password. The user can change the password via XConsole or the Set Password menu.



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