

Digital Loudspeaker Processor

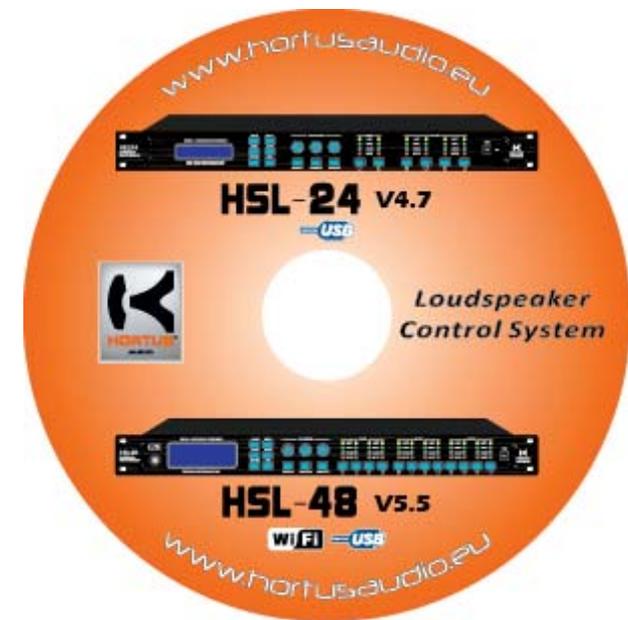
OPERATORS MANUAL



HSL-24

Digital Loudspeaker Processor

OPERATORS MANUAL



PLEASE PRINT CLEARLY

SRA #: _____ (If sending product to Crown factory service.) Model: _____ Serial Number: _____ Purchase Date: _____

PRODUCT RETURN INFORMATION

Individual or Business Name: _____

Phone #: _____ Fax #: _____ E-Mail: _____

Street Address (please, no P.O. Boxes): _____

City: _____ State/Prov: _____ Postal Code: _____ Country: _____

Nature of problem: _____

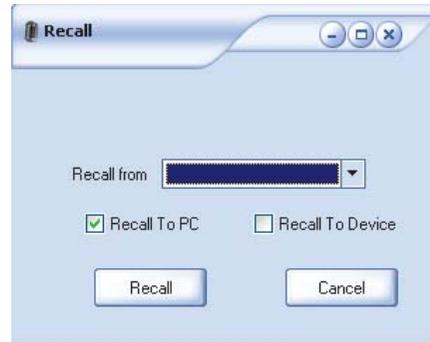
Other equipment in your system: _____



RECALL MENU:

Recall to PC : Recall all channel parameters into PC only.

Recall to Device: Recall all channel parameters into Device.

**LOCK XOVER MENU:**

Lock Xover can let the user locking the parameters that others can't view or edit this data.

There are 4 locking type:

1. No Lock (do not lock)
2. Lock Xover (locking all parameters except gain ,mute)
3. Lock Xover+Gain (locking all parameters except mute)
4. Lock Xover+Gain+Mute(locking all parameters)

EDIT PASSWORD MENU:

Setting the Xover's password, the default password is 000000. When locking, User must remember the password.

LOCK/UNLOCK PANEL MENU:

Lock or unlock the panel , when locking ,all the buttons are disable.

EQ UNIT MENU:

User can switch the EQ unit , use Q value or bandwidth(per octave).

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer 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.
- 15) Use the mains plug to disconnect the apparatus from the mains.
- 16) **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.**
- 17) **DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.**
- 18) **THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.**



↓ Press NEXT→

O1 Limiter
Threshold=+20dBu

Limiter threshold ,in dBu

↓ Press NEXT→

O1 Limiter
At:20ms Re:200ms

Limiter attack time and release time

Input Channel Menu

IN: A Gain
Gain=+0. 0dB

Press channel button in long time, enter this edit menu.

IN:AB Gain
Gain=+0. 0dB

Press channel button in long time, enter this edit menu and do not release channel button, press other channel button, it will enter multi channel edit mode. These channel parameters will be edited simultaneously.

Notice: In Multi-channel edit mode, only the data have been modified will available in these channel , others data will keep still.

↓ Press NEXT→

IN:A Eq: 1 PEQ
1K00 Q=0. 71 +0. 0dB

EQ filter , press FUN button to switch filter parameters(filter type filter frequency, bandwidth or Q, etc)

↓ Press NEXT→

IN:A Eq: 2 PEQ
1K00 Q=0. 71 +0. 0dB

EQ filter , press FUN button to switch filter parameters(filter type filter frequency, bandwidth or Q, etc)

Utility Menu

XOVER MENU
Load Xover

Load xover sub-menu

↓ Press ENTER

LOAD XOVER
1. Empty

Select a xover .Press ENTER button to load .

XOVER MENU
Store Xover

Store xover sub-menu

↓ Press ENTER

STORE XOVER
1. Empty

Select a xover that want to be store. Press ENTER button to confirm .

XOVER MENU
Copy Xover

Duplicate xover sub-menu

↓ Press ENTER

SELECT A XOVER
1. ABCD

Select a source xover that want to be copied .Press ENTER button to confirm .

↓ Press ENTER

COPY TO XOVER
2. Empty

Select a destination xover. Press ENTER button to confirm .

XOVER MENU
Erase Xover

Delete xover sub-menu

↓ Press ENTER

ERASE XOVER
1. ABCD

Select a xover that want to be delete. Press ENTER button to confirm .



CONTROL PANEL



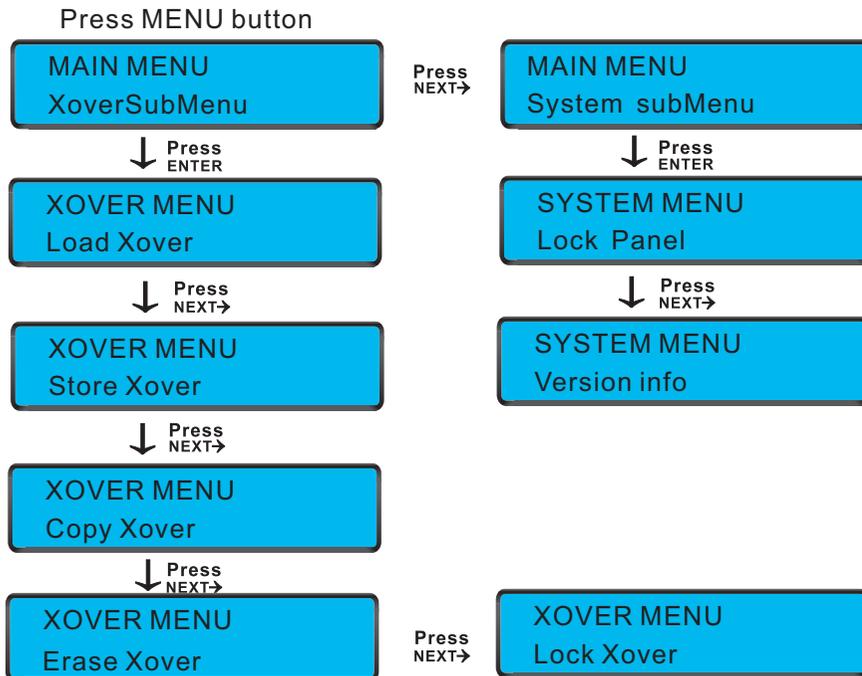
- <BACK** Previous menu
- NEXT>** Next menu
- MENU** Main menu
- ENTER** Confirm
- EXIT** Back previous menu
- FUN** Shift function (In EQ or Crossover menu)



Channel Button:

1. Press button in short time, mute this channel
2. Press button in long time, edit this channel
3. Press button in long time, when display screen go into edit state, press other channel button, edit these channels in same time.

Panel Menu

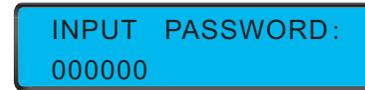


System Menu



When lock panel, all the button are disable

↓ Press ENTER



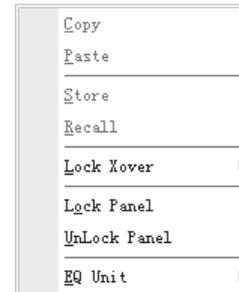
After Inputing password,press ENTER button to confirm,press BACK or NEXT button to switch password character

↓ Press ENTER



Lock panel done

Software



Main software menu instruction:

COPY MENU: Only A ,B channel can copy each other
Only 1,2,3,4,5,6 can copy each other

PASTE MENU: When selecting one channel and click copy menu and select another channel ,press paste menu, channel parameters duplication is done.



STORE MENU:

Store all the channel parameters into device.



XOVER MENU
Lock Xover

Lock xover menu

↓ Press ENTER

INPUT PASSWROD
000000

Input password , default password is 000000,press NEXT or BACK button to switch the password position. Press ENTER button to confirm.

↓ Press ENTER

[Empty screen]

There are 4 locking type:

1. No Lock (do not lock)
2. Lock Xover (locking all parameters except gain ,mute)
3. Lock Xover+Gain (locking all parameters except mute)
4. Lock Xover+Gain+Mute(locking all parameters)

↓ ENTER

NEW PASSWROD ?
No/Yes

If want to set a new password, select YES. Press ENTER button to confirm.

↓ Select YES Press ENTER

NEW PASSWROD:
000000

Setting a new password ,Press ENTER button to confirm. Press BACK or NEXT button to switch password position.

Output Channel Menu

O1 Gain
Gain=+0. 0dB

Press channel button in long time, enter this edit menu.

O123 Gain
Gain=+0. 0dB

Press channel button in long time, enter this edit menu and do not release channel button, press other channel button, it will enter multi channel edit mode. These channel parameters will be edited simultaneously.

Notice: In Multi-channel edit mode, only the date have been modified will available in these channel , others data will keep still.



↓ Press NEXT→

O1 Route
Route=A

Source selection, A or B or A+B

↓ Press NEXT→

O1 Polarity
Polarity=+

Polarity selection, + or -

↓ Press NEXT→

O1 Delay
Delay=00. 0ms

Delay selection, in millisecond.

↓ Press NEXT→

O1 HPF
22. 1 LiRil -24dB

High pass filter , press FUN button to switch filter parameters(filter type filter frequency, filter slope, etc)

↓ Press NEXT→

O1 LPF
18K7 LiRil -24dB

Low pass filter , press FUN button to switch filter parameters(filter type filter frequency, filter slope, etc)

↓ Press NEXT→

O1 Eq: 1 PEQ
1K00 Q=0. 71 +0. 0dB

EQ filter , press FUN button to switch filter parameters(filter type filter frequency, bandwidth or Q, etc)

↓ Press NEXT→

O1 Eq: 2 PEQ
2K00 Q=0. 71 +0. 0dB

EQ filter , press FUN button to switch filter parameters(filter type filter frequency, bandwidth or Q, etc)