Table of Contents

Thanks for using our Speaker Management .In order to help you to use our products very well,

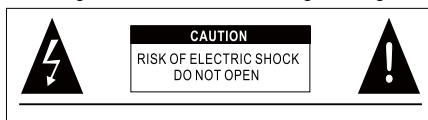please read the instruction below carefully.

1.Attention

Warning: To prevent the short circuit, keep off any place of humidity.

Turn off the device immediately in case of water damage and find the right technician for

reparation.

Do not open the device yourself unless by the authorized technician.

When flashes the exclamation Mark, the device is also with high voltage and the alert should be on.

When flashes the arrowhead signal, the device is with high voltage. Please do not touch the device

for any reason.

```
+-----------------------------------------------+
| /!\      CAUTION              /!\             |
|        RISK OF ELECTRIC SHOCK                 |
|           DO NOT OPEN                          |
+-----------------------------------------------+
```

•2.Features

•96K Hz sampling frequency,32-bit DSP processor, 24- bit A/D and D/A converter.

•6 Models available: 2Ins/4Outs, 2Ins/6Outs, 2Ins/8Outs, 3Ins/6Outs, 4Ins/6Outs,Ins/8Outs.

•USB and RS485 connector are provided to be connected with PC.250pcs of the devices can be connected together via Rs485 and it can be remote controlled far from 1500m.

•It is convenient, and conciseness to use the function buttons and coder on the panel or connect the PC with the software to set the function.

•30 kinds of user programs can be stored into the device.

•To avoid other people to disturb the working status of the device, setting the password with the system button to lock the panel control function.

•6 independent parametric EQ of input and output. The gain range is ±2 0 d B. The EQ of output channel has two slopes: Lo-shelf and Hi-shelf.

•2×2 4 L C D blue back light display function. 6 L E D display the exactly digital level meter, mute and edit status of input/output.

• Every input and output have delay ,phase control and mute setting, delay can reach 1000ms.

•Can adjust the gain, limiter of output channel. Choose the input signal, and copy all the parameters of one channel to another channel and joint debugging.

Example:Use 2 central control devices to control one speaker management. Central control A adjust the gain of InA,InB.Central control B adjust the gain of Out1, Out2, and Out3.
    (1)Link the speaker management and central control devices as below pictures.
    (2)Turn on the switchs of InA and InB of central control A, turn off the rests
    (3)Turn on the switchs of OUT1,OUT2,OUT3 of central control B, turn off the rests
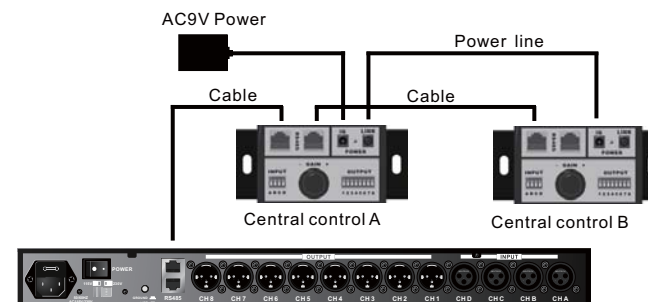
Sketch map of Linkage

9.2 Label

Use PC software add and revise the lables for every channel. When edit the parameter, the lable will show with the channel NO.

For example, you add the lable "1-LOW" to Out 1, then the EQ menu will show as below:


```
Out1   1-LOW   EQ1 : PEQ
20.3Hz   0.0dB   0.30Oct
```

9.3 Central Control

(1)Gain for any channels is adjustable

(2)One Central Control Device can control several devices, one device also can be linked with several central controls.

(3)Via RS485 Com Port, easily linked,long distance transmission,and stable signal.

(4)Small power, the power can be in series.
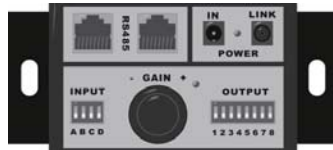
1.RS485 Com Port

2.RS485 Com Port

Several central control devices can be in series by cable. Then chose any Rs485 communicate com to connect with the communicate com of speaker management by cable. The max distance will be over 1500m.

3.Power Input Socket

Power of AC9V

4.Power Indicator light

5.Power Output Socket

The socket which connect to the next central conrol device.

6.4 segment coding switch

Chose the channel which need to adjust the gain.

7.Coder

Adjust the gain. Increase the volume with clockwise, decrease the volume with counter-clockwise.

8.Coder Rotation indicator light

9.8 segment coding switch

Chose the channel which need to adjusting the volume.

SPECIFICATION

	2IN 4OUT	2IN 6OUT	2IN 8OUT	3IN 6OUT	4IN 6OUT	4IN 8OUT
Input Impedance	Balance: 20KΩ					
Output Impedance	Balance: 100Ω					
PC Com Port	One USB Com Port on front panel, 2 Rs485 Com Port on back panel(RJ-45)					
CMRR	>70dB@1KHz					
Input Range	≤±25dBu					
Frequency Response	20Hz~20KHz ±0.5dB					
S/NR	>110dB					
THD	<0.01% @OUTPUT=0dBu/1KHz					
Crosstalk of Channels	>80dB@1KHz					
Delay Time Step	Each input channel has single delay control, Range:0~1000mS; 21μS step@0~10mS; 84 μS step@ 10mS~20Ms;0.5mS step@ 20mS~1000mS					
Input/Output Polarity	In-phase(+) or reversed phase(-)					
Input EQ	6-band parameter EQ; Frequency: 20Hz~20KHz; Gain: -20 dB~+20 dB; Bandwidth: 0.05oct~3oct					
Input Gain	Input Gain Range:-80dB~+12dB,step@0.1dB					
Mute	Mute with each Input& Output channel					
Input Selection	Each input channel can be selected to each output channel					
Output Gain	Range:-80dB~+12dB, step: 0.1dB					
Output delay	Every input channel has independent delay control， adjust range:0~1000ms, stepover：21us@<10ms，；10ms~20ms, stepover:84us@>20ms，stepover: 0.5ms					
Crossover	Each output channel can be independently set as LPF and HPF. The parameters can be adjusted. Filter type :Linkwitz-Riley; Bessel; Butterworth. The Crossover Frequency: 20Hz~20KHz, Slope: 12dB/oct; 18dB/oct; 24dB/oct;30dB/oct;36dB/oct;42dB/oct;48dB/oct.					
Limiter	Limiter with each output channel. The parameters are adjustable: Threshold value: -40dBu~+20dBu; step:0.5dBu. Attack time: 0.3mS~200mS. 0.1mS step@0.3~1mS; 1mS step @1mS~100mS. Release Time: Release Time can be set to 50ms ~ 5000ms					
Output EQ	Each output channel has 6-band EQ: 3 modes: Lo-Shelf/Hi-Shelf/Parameter. A: Lo-Shelf: Slop: 6dB/12dB; Frequency:20Hz~20kHz; Gain: -20dB~20dB; B: Hi-Shelf: Slop: 6dB/12dB; Frequency: 20Hz~20kHz; Gain:-20dB~20dB; C: Parameters: frequency: 20Hz~20KHz, bandwidth: 0.05oct~3oct; Step: 0.05oct; Gain: -20dB~+20dB, Step 0.1dB					
Processor	96KHz Sampling frequency, 32-bit Floating-Point DSP 24-bit A/D and D/A converter					
Display	With 2*24 LCD, 6-LED input/output level. Mute and Editing mode can be displayed.					
Power	≤25W					
Power Supply	AC 110V/220V 50Hz/60Hz					
Dimension（mm）	1PC：482×190×44/562×362×98（mm） 6PCS：575×375×608（mm）					
Weight（kg）	1PC：3.6/4.6（kg） 6PCS：28.8（kg）					

3.Sketch map of Front Panel

Sketch map of Front Panel

1.LCD display
   Display the information of each menu.

2.Digital Encoder
   (1) Rotating: amend the parameters/change the item
   (2) Short pressing: enter or confirm, the 【enter】 button
   (3) Long pressing(at least 2 seconds): special confirm

3.【Menu Select Keys】, function as follow:
   (1)【EQ】: EQ setup   (2)【X-OVER】: crossover set up
   (3)【LIMITER】: Limiter set up   (4)【DELAY】: Delay set up
   (5)【GAIN】: Gain set up   (6)【POLARITY/NG】: Polarity set up
   (7)【EXIT】: Exit to the main menu   (8)【SYSTEM】: referring information of system
   (9)【LOAD/SAVE】: pre-load setup and save the information of set up
   when parameters under the editing ,press (1)、(2)、(3)、(4)、(5)、(6)can enter the right menu,
   otherwise in valid.
   press (7) at anytime can exit and cancel the operating
   press (8)、(9) at anytime can enter to the main system menu

4.LED dislay
   6-LED input/outputlevel
   (1) CLIP ,the light be red when the signal distortion;
   (2) LIMIT ,the light be yellow if the signal over the initialization;
   (3) -36dB - 0dB的3-LED the light will be green;
   (4) EDIT indicate yellow light,shows the operaing channel.

5.Input mute/Edit key
   【CHA】、【CHB】、...【CHD】
   (1) One-touch press : Mute/non-mute switch。The red light will be on when mute.
   (2) Continuosinitialization press(at least 2seconds) : enter the output edit interface , the
   detail please refer to the part of "input and output function instruction".

6.Output mute/Edit key
   【CH1】、【CH2】、...【CH8】
   (1) One-touch press : Mute/non-mute switch。The red light will be on when mute
   (2) Continuosinitialization press(at least 2seconds) : enter the output edit interfacethe detail
   please refer to the part of "input and output function instruction"

7.USB COM Port
   Connect with PC. Through PC interface software, the refering Parameters can be
   adjusted.And then it will influence the inputs and outputs.

9.Others

9.1 Multi- channel data linkage operation:

   For example ：Set OUT1 linkage with OUT2、OUT3。Change the parameter of OUT1 , OUT2、OUT3
   will also change automatically.

（1）Press the editor of 【CH1】till it is lighting, now it has switched into edit interface. The data of OUT1
   can be edited

（2）Press【CH1】、【CH2】at the same time , the edit light of OUT2 shows in yellow.

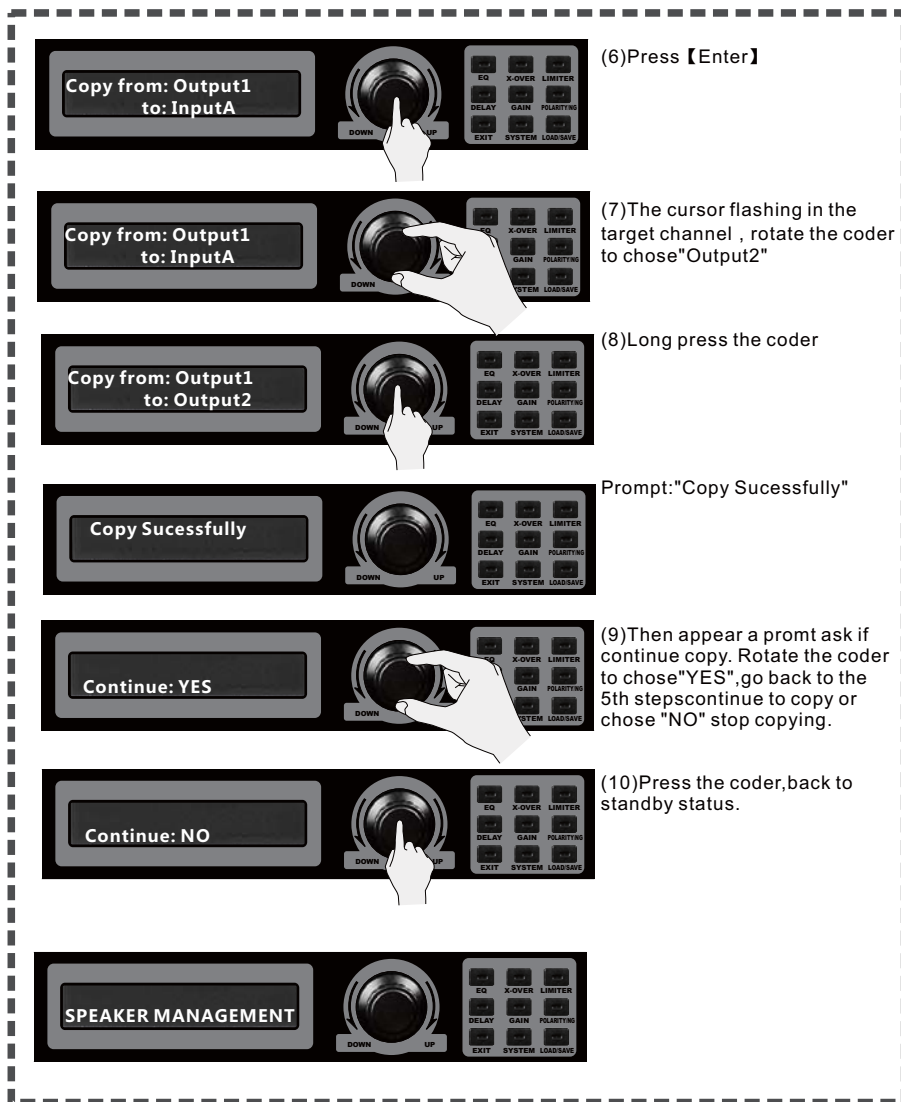（3）Press【CH1】、【CH3】at the same time , the edit light of OUT3 shows in yellow.

（4）When the edit lights of OUT1、OUT2、OUT3 on , then OUT1、OUT2、OUT3 are under linkage
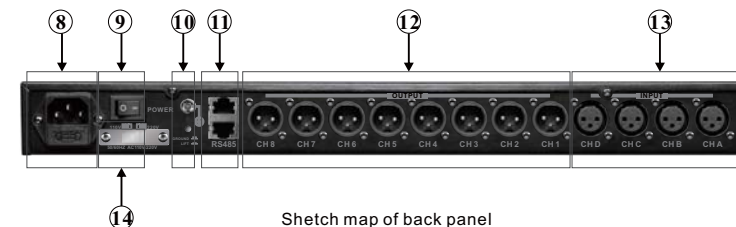   operation , when adjust the parameters of OUT1 , OUT2、OUT3 will change synchronously.

（5）Press【EXIT】exit the linkage operation , the edit light of OUT1、OUT2、OUT3 will off and return to
   main menu.

(6)Press 【Enter】

**Copy from: Output1
to: InputA**

(7)The cursor flashing in the target channel , rotate the coder to chose"Output2"

**Copy from: Output1
to: InputA**

(8)Long press the coder

**Copy from: Output1
to: Output2**

Prompt:"Copy Sucessfully"

Copy Sucessfully

(9)Then appear a promt ask if continue copy. Rotate the coder to chose"YES",go back to the 5th stepscontinue to copy or chose "NO" stop copying.

Continue: YES

(10)Press the coder,back to standby status.

Continue: NO

SPEAKER MANAGEMENT

4.Shetch map of back panel

Shetch map of back panel

8.AC Power Input Block
  In accordance with the instruction of gears on the power communication,

9.Power switch
  Press the switch , access input voltage, and it will work normally.

10.Ground-Column
  The common Ground COM of classis.

11.RS485 COM port
  RS485 COM for speaker managements linking with the computer, through USB or 232 converter.It can link 250 sets at the most; also it can be controlled by computer even it is 1500m way

12.Output channel
  8 output channels , marked as CH1~CH8. They are CH1,CH2,CH3 ...CH8.

13.Input channel
  4 input channels , marked as CHA~CHD. They are CHA , CHB, CHC,CHD

14.Power Converter Switch
  In oder to protect the device,please do select the corresponding gear of input voltage, there are two AC one is 110V,another is 220V.

5. **Meaning of the sign in the operation instruction**

1. Symbol 【　】 stands for the button of the panel

2. Symbol "　" stands for the content display in LCD

3. 　 stands for press the button on the panel

4. 　 Stands for rotate the coder on the panel

6.Parameters adjustment

6.1 Turn on the device
Connect the AC Power with power wire, check the power converter switch correct or not. Turn on the power, then the device start Initialize.

Start the panel as follow：

After 9 second,system finished the initialization, enter the standby status.You can setup the contents of standby screen via PC software.

6.2 Adjust the parameters of Input channel
Press the menu enter button, enter the right menu to adjust the parameters, input channel can into next menu：【EQ】、【DELAY】、【GAIN】、【POLARITY/NG】, below are the flow chart of how to adjust the parameters of each menu:

6.2.1 Adjust the EQ of Input channel
For example : Adjust EQ3 frequency of INA as：397Hz , Gain : 2dB , Qfact : 0.8Oct。

（1)Long press the button【CHA】, the edit light of CHA shows yellow,system enter the menu of EQ's submenu,EQ1.

(2)Press the button of【EQ】, submenu will change among EQ1～EQ6,choose EQ3。

yellow light

InA   EQ1:PEQ
20.3Hz 0.0dB 0.30Oct
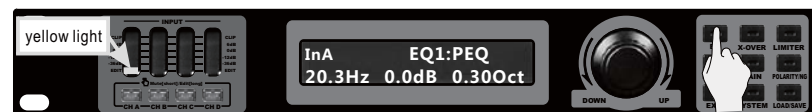
（3)The cursor flashing at the frequency, rotate the coder to adjust the frequency as "397Hz".

yellow light

InA   EQ3:PEQ
315Hz 0.0dB 0.30Oct
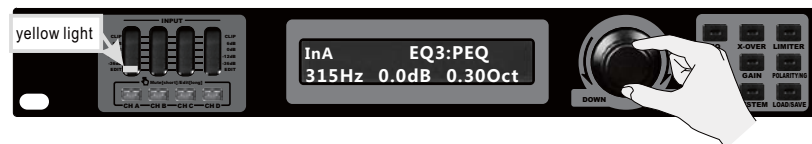
（9)Finish deleting, return to previous menu you can see the NO.10 program became blank,press【EXIT】 several times, go back to standy screen.

Select : default
10.

SPEAKER MANAGEMENT

8.4 Channel Copy
For example：Copy data from Out1 to Out2

(1)Anytime , can press 【LOAD/SAVE】into program menu.

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(2)Press【Enter】

PROGRAM MODE MENU
1.Load Program

(3)Rotate the【coder】choose "Channel Copy"

Select : group Load

(4)Press【Enter】

Select : Channel Copy

(5)The cursor flashing at the channel,rotate the【coder】, choose "Output1"

Copy from: InputA
      to: InputA

8.3 Delete Program

For example ： delete the NO.10 program ，resume the default program.

(1)Anytime , can press 【LOAD/SAVE】to enter program menu.

(2)Rotate the 【coder】choose submenu "2.Save Program"。

(3)Press【Enter】

(4)Rotate the 【coder】choose "default"

(5)Pres【Enter】

(6)The cursor flashing at the program NO.rotate the 【coder】choose NO.10

(7)Press【Enter】

(8)Clue to continue or not , press 【Enter】to continue.Or rotate the 【coder】choose "No" to cancel it , return to standby screen

（4)Press the 【Enter】button,the cursor flashing at the gain.

(5)Rotate the【coder】, adjust the gain as "+2.0dB"

(6)Press【Enter】, the cursor flashing at the Q fact.

(7)Rotate the【coder】, adjust the Q fact as "0.80Oct"

(8)Finish adjustment, press【EXIT】, return to standby status,the yellow edit light of CHA off at the same time.

6.2.2 Adjust the Delay of Input Channel
    For example：adjust the delay of INA as 9.996ms。

（1）Long press 【CHA】，the yellow edit light of CHA on，system enter the EQ1 submenu of EQ acquiescently

SPEAKER MANAGEMENT

(2)Press【DELAY】，enter the menu of DELAY.

yellow light

InA   EQ1:PEQ
20.3Hz 0.0dB 0.30Oct

(3)Rotate the【coder】，adjust the delay as 9.996ms。

yellow light
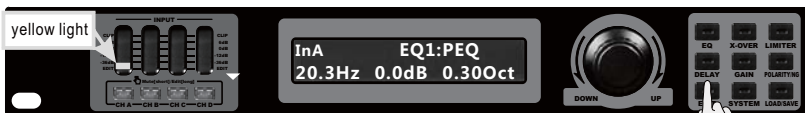
InA
Delay   0.000   ms
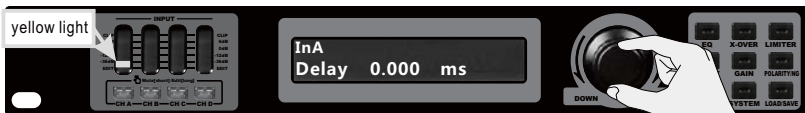
（4）Finish setting, press【EXIT】return to standby screen.

yellow light

InA
Delay   9.996   ms

SPEAKER MANAGEMENT
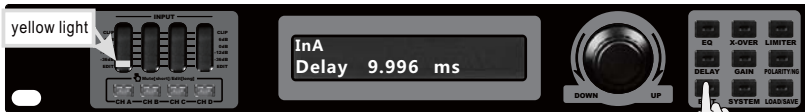
8.2 Load Program
    For example：Load the NO.10 program.

SPEAKER MANAGEMENT

(1)Anytime，press【LOAD/SAVE】enter to the program menu.

PROGRAM MODE MENU
1.Load Program

(2)Press【Enter】

Select : group Load

(3)Rotate the【Coder】choose "group Load"

Select : group Load

(4)Press【Enter】

Select and Load
1.

(5)The cursor flashing at the program NO. , Rotate the【coder】choose NO.10.

(6)Press【Enter】

Select and Load
10. my program 10

Wating
Loading......

Clue to "Waiting Loading……"

Loading Sucessfully

Clue to "Loading Sucessfully"

SPEAKER MANAGEMENT

Return back to standby screen automatically.

（8）Key in program name.The first letter of the name flashing,rotate the 【coder】, choose the letter'm'

Input User Group Name
A

(9)Press【Enter】

Input User Group Name
m

(10)The 2nd letter of the name flashing,repeat the 8,9 steps，key in "my program 10"。After key in the last letter'0'，long press the 【coder】

Input User Group Name
my program 10

Clue to "StroingSucessfully"

Storing Sucessfully

Return to standby screen automatically.

SPEAKER MANAGEMENT

6.2.3 Adjust the Gain of Input channel

For example ：Adjust the gain of INA as +3dB

（1）Long press【CHA】button, the yellow edit light of CHA on，system enter the submenu EQ1 of EQ defaultly

SPEAKER MANAGEMENT

(2)Press【GAIN】，enter the menu of GAIN.

yellow light

InA   EQ1:PEQ
20.3Hz 0.0dB 0.30Oct

(3)Rotate the 【coder】，adjust the gain as +3dB。

yellow light

InA   Gain: 0dB

（4）Finish setting，press【EXIT】button resume standby screen.

yellow light

InA   Gain: +3dB

SPEAKER MANAGEMENT

6.2.4 Adjust the Polarity and NOISE-Gate of Input channel
　　For example：Adjust the polarity of INA as reversed Phase，Noise-Gate as -80dB。

（1)Long press【CHA】button, the yellow edit light of CHA的 on，system enter the submenu Eq1 of EQ defaultly.

SPEAKER MANAGEMENT

(2)Press【POLARITY/NG】，enter the menu of POLARITY/NG。

yellow light

InA　　　　EQ1:PEQ
20.3Hz　0.0dB　0.30Oct
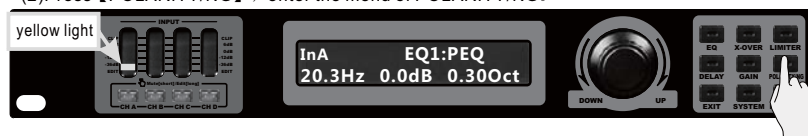
（3)The cursor flashing at the polarity，rotate the【coder】adjust the polarity as "-"。

yellow light

InA　　　　Polarity=[+]
　　　Noisegate: -76dBu
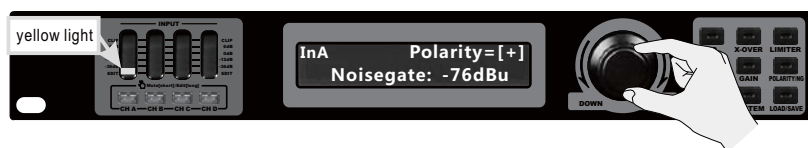
（4)Press【Enter】button，the cursor flashing at the Noisegate.

yellow light

InA　　　　Polarity=[-]
　　　Noisegate: -76dBu
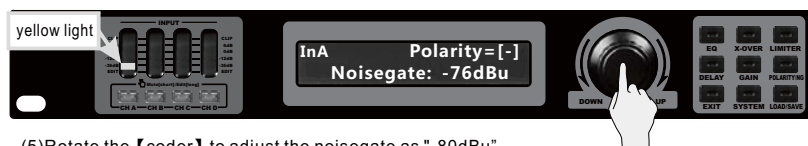
(5)Rotate the【coder】to adjust the noisegate as "-80dBu"

yellow light

InA　　　　Polarity=[-]
　　　Noisegate: -76dBu
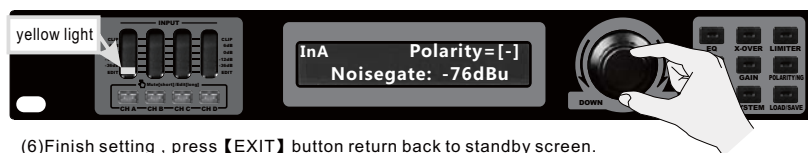
(6)Finish setting，press【EXIT】button return back to standby screen.

yellow light

InA　　　　Polarity=[-]
　　　Noisegate: -80dBu

SPEAKER MANAGEMENT
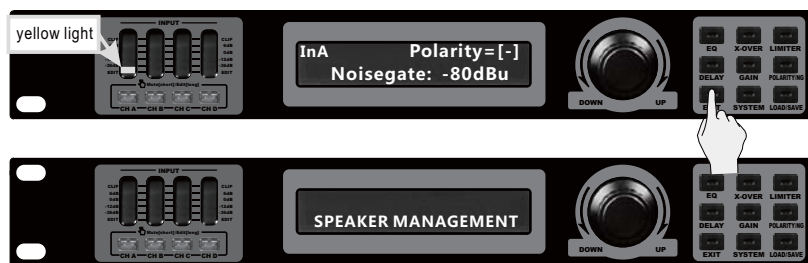
8.Program Set up

8.1 Save Program
　　For example：save the current setting parameters as program,NO is 10，name is my program 10

SPEAKER MANAGEMENT

（1)Anytime，press【LOAD/SAVE】enter the program menu.

PROGRAM MODE MENU
1.Load Program

(2)Rotate the【coder】choose submenu "2.Save Program"。

PROGRAM MODE MENU
2.Save Program

（3)Press【Enter】

Select：store
1.

(4)Rotate the【coder】choose "store"

Select：store
1.

(5)Press【Enter】

Select：store
1.

（6)The cursor flashing at the program NO.，rotate the【coder】choose NO.10

Select：store
10.

(7)Press【Enter】

7.6 System Information
Check the edition NO. of the system software.

（1）Anytime , can press 【SYSTEM】enter into system menu.

(2)Rotate the 【coder】choose the submenu "6.System Information"。

（3）Press【Enter】button

You can see the edition of the sample software is "G-DV1.07"

(4)Press【Enter】.

（5）Back to previous menu automatically,press【EXIT】button till resume the standby screen.
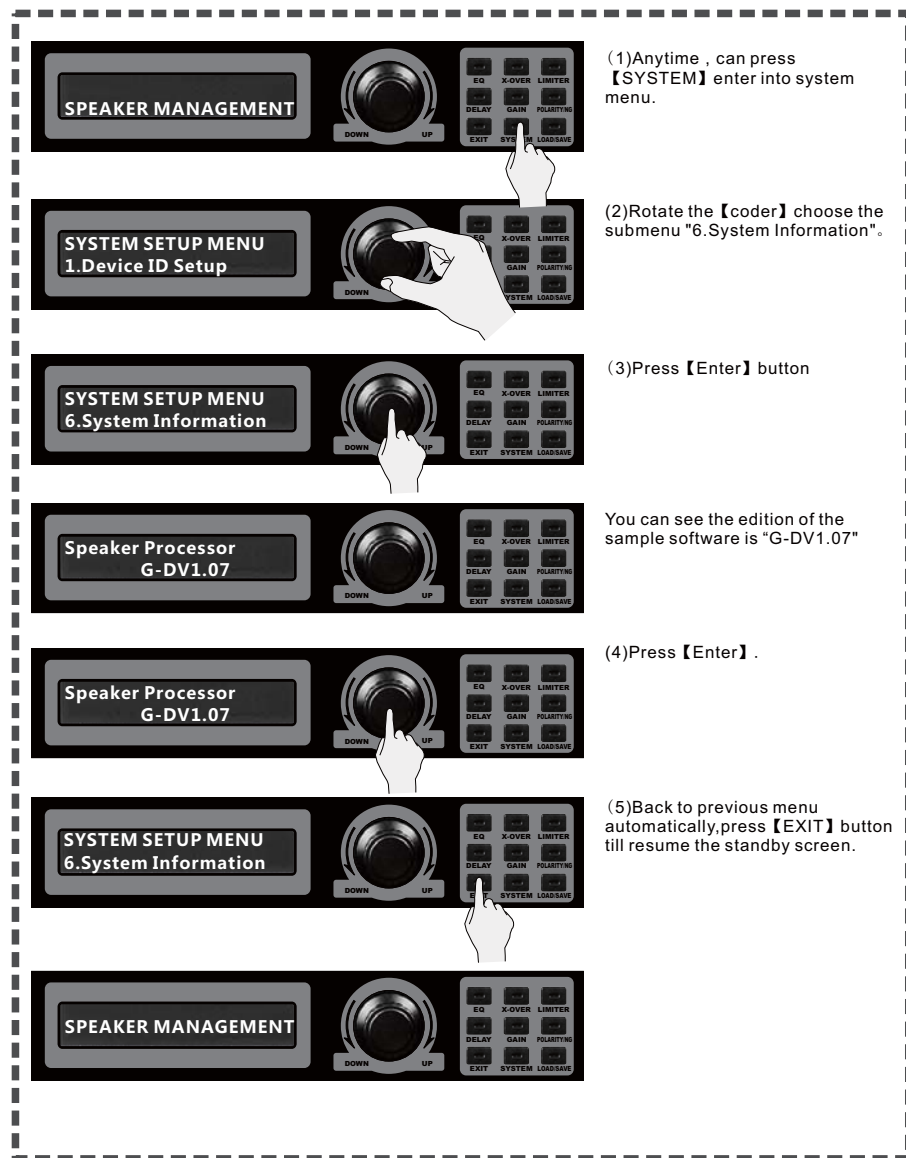
6.3 Adjust the parameters of the Output channel
Press the button of the menu, enter the relative menu to adjust the parameters,the output channel can enter below menu: 【EQ】、【X-OVER】、【LIMITER】、【DELAY】、【GAIN】、【POLARITY/NG】, below are the flow chart of how to adjust the parameters of each menu:

6.3.1 Adjust the EQ of Output channel
For example : Adjust the EQ3's parameters of OUT1 as EQ mold: lowcut; frequency :102Hz;Gain : 2dB;
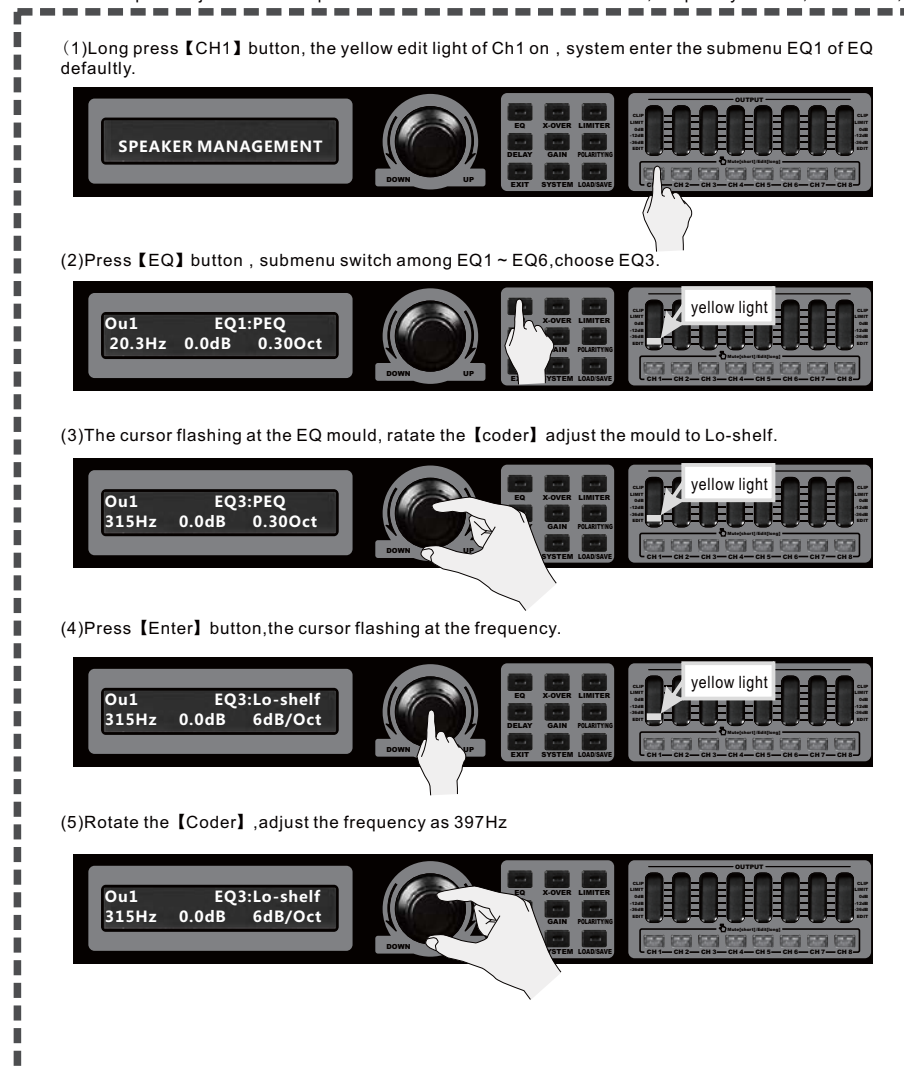
（1）Long press【CH1】button, the yellow edit light of Ch1 on，system enter the submenu EQ1 of EQ defaultly.

(2)Press【EQ】button , submenu switch among EQ1 ~ EQ6,choose EQ3.

(3)The cursor flashing at the EQ mould, ratate the 【coder】adjust the mould to Lo-shelf.

(4)Press【Enter】button,the cursor flashing at the frequency.

(5)Rotate the 【Coder】,adjust the frequency as 397Hz

（6）Press 【Enter】button, the cursor flashing at the Gain

```
Ou1        EQ3:Lo-shelf
397Hz   0.0dB    6dB/Oct
```
yellow light

(7)Rotate the 【Coder】 adjust the gain as +2.0dB

```
Ou1        EQ3:Lo-shelf
397Hz   0.0dB    6dB/Oct
```
yellow light

(8)Press 【Enter】button, the cursor flashing at the slope

```
Ou1        EQ3:Lo-shelf
397Hz   +2.0dB   6dB/Oct
```
yellow light

(9)Rotate the 【Coder】adjust the slope as "12dB/Oct"
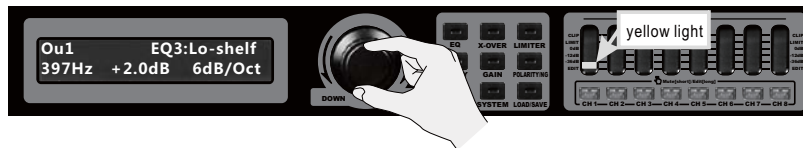
```
Ou1        EQ3:Lo-shelf
397Hz   +2.0dB   6dB/Oct
```
yellow light

(10)Finish setting , press 【EXIT】button resume to standby screen.

```
Ou1        EQ3:Lo-shelf
397Hz   +2.0dB   12dB/Oct
```
yellow light

```
SPEAKER MANAGEMENT
```

7.5 Current Program
    Check the current program name.

```
SPEAKER MANAGEMENT
```
(1)Anytime , can press 【SYSTEM】button enter the system menu.

```
SYSTEM SETUP MENU
1.Device ID Setup
```
(2)Rotate the 【coder】choose the submenu "5.Current Program"。

```
SYSTEM SETUP MENU
5.Current Program
```
(3)Press 【Enter】

```
Current Program Name
my program
```
You can see the sample loading program name is "my program"

```
Current Program Name
my program
```
(4)Press 【Ether】

```
SYSTEM SETUP MENU
5.Current Program
```
(5)Return back to previous menu automatically,press 【EXIT】, resume the standby screen.

```
SPEAKER MANAGEMENT
```

7.4 Backlight setup
    For example：The background light will go off in 10 seconds when the power is on.And then the LCD will enter the power-saving mode.

SPEAKER MANAGEMENT

(1)Anytime，can press the 【SYSTEM】button enter the system menu.

SYSTEM SETUP MENU
1.Device ID Setup

(2)Rotate the【coder】choose the submenu "3.Backlight Setup"

<Device ID Setup>
4.Backlight Setup

(3)Press【Enter】

<Backlight Setup>
Open

(4)Rotate the【coder】choose"10s"

<Backlight Setup>
10s

(5)Press【Enter】

SYSTEM SETUP MENU
3.Power On Setup

(6)Finish setting，return to previous menu automatically,press【EXIT】button till resume standby screen.

SPEAKER MANAGEMENT

6.3.2 Adjust the HPF and LPF of Output channel.
    For example：adjust the HPF of OUT1 as 102Hz; mould：Bessel;slope:30dB/Oct.

（1)Long press【CH1】button，system enter the EQ1 submenu of EQ defaultly.

SPEAKER MANAGEMENT

(2)Press【X-OVER】button, enter LPF menu, press the button again then enter HPF menu. Defaultly set as off status.

Ou1   EQ1:PEQ
20.3Hz 0.0dB   0.30Oct

yellow light

(3)Rotate the 【coder】widdershins，turn on the LPF function.

Ou1   Hpf
** OFF**

yellow light

(4)The cursor flashing at the frequency,rotate the【coder】adjust

Ou1   Hpf
19.7Hz ButterW 12dB/Oct

yellow light

(5)Press the 【 Enter】button,the cursor flashing at the mould.

Ou1   Hpf
102Hz ButterW 12dB/Oct

yellow light

（6）Rotate the【coder】adjust the mould to Bessel


```
Ou1                 Hpf
102Hz ButterW  12dB/Oct
```
yellow light

(7)Press【Enter】button, the cursor flashing at the slope.


```
Ou1                 Hpf
102Hz Bessel  12dB/Oct
```
yellow light

(8)Rotate the【coder】adjust the slope as "30dB/Oct"


```
Ou1                 Hpf
102Hz Bessel  12dB/Oct
```
yellow light

(9)Finish adjustment, press【EXIT】button resume to standby screen.


```
Ou1                 Hpf
102Hz Bessel  30dB/Oct
```
yellow light

SPEAKER MANAGEMENT

7.3 System Setup Menu
    For example：Setup the power on automatic loading program as No.1 program.

SPEAKER MANAGEMENT

（1）Anytime，can press the【SYSTEM】button enter the system menu.


```
SYSTEM SETUP MENU
1.Device ID Setup
```

(2)Rotate the【Coder】choose the submenu "3.Power On Setup"。


```
SYSTEM SETUP MENU
3.Power On Setup
```

（3）Press【Enter】


```
<Power On Setup>
1.Keep State
```

（4）Rotate the【Coder】, choose "3.Load"


```
<Power On Setup>
3.Load
```

(5)Press【Enter】


```
SYSTEM SETUP MENU
3.Power On Setup
```

（6）Finish setting，return back to previous menu automatically, press【EXIT】till resume to the standby screen.

SPEAKER MANAGEMENT

Clue to "Erase Password Sucess!"

Erase Password Sucess!

(7)Finish setting，return to the prevous menu automatically,Press【EXIT】till resume to the standby screen.

<Function Setup>
1.Change Password

SPEAKER MANAGEMENT

6.3.3 Adjust the Limiter of the Output channel

For example：adjust the limiter of Out1 as ：＋3.0dB;attack time:20ms,release time:1000ms.

（1）Long press the【CH1】button，system enter the EQ1 submenu of EQ.

SPEAKER MANAGEMENT

(2)Press【LIMITER】button，enter the limiter menu，defaultly in off status.

Ou1   EQ1:PEQ
20.3Hz   0.0dB   0.30Oct

yellow light

(3)Contrarotate the【Coder】，turn on the limiter.

Ou1   Limit
  OFF

yellow light

(4)The cursor flashing at the limiter, rotate the【Coder】adjust as +3.0dB

Ou1   Limit
+19.5dBu   0.06ms   50ms

yellow light

(5)Press the【Enter】button，the cursor flashing at the starting time.

Ou1   Limit
+3.0dBu   0.06ms   50ms

yellow light

（6）Rotate the【Coder】adjust the the attack time as 20ms.


```
Ou1            Limit
+3.0dBu  0.6ms    50ms
```
yellow light

(7)Press the【Enter】button，the cursor flashing at the release time.


```
Ou1            Limit
+3.0dBu  20ms    50ms
```
yellow light

(8)Rotate the【Coder】，adjust the release time as 1000ms.


```
Ou1            Limit
+3.0dBu  20ms    50ms
```
yellow light
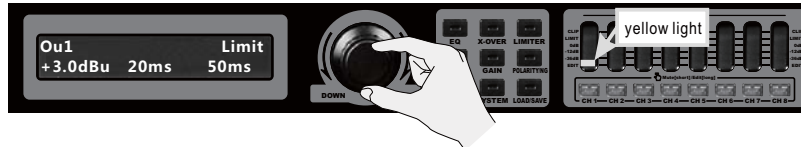
(9)Finish setting，press【EXIT】button and resume to the standby screen.
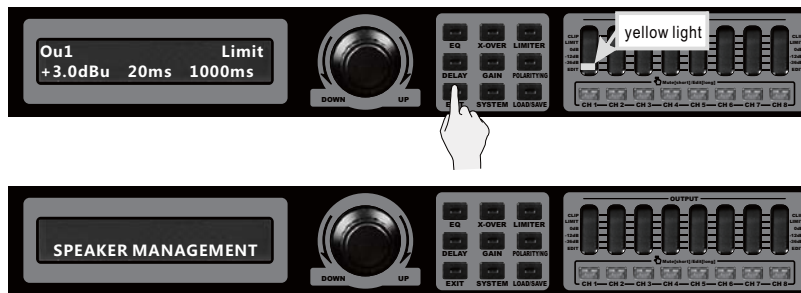

```
Ou1            Limit
+3.0dBu  20ms  1000ms
```
yellow light


```
SPEAKER MANAGEMENT
```

7.2.5 Erase the Password.


```
SPEAKER MANAGEMENT
```
(1)Anytime , press the【SYSTEM】button enter the system menu.

```
SYSTEM SETUP MENU
1.Device ID Setup
```
(2)Rotate the【Coder】choose the submenu "2.Lock Menu Setup"

```
<Device ID Setup>
2.Lock Menu Setup
```
(3)Press【Enter】button enter the menu.

```
<Password Setup>
Input Password
```
(4)Key in the preset password. Rotate the【Coder】：choose the letter
【Enter】button：confirm key in the letter
【EXIT】：backspace

```
Password Error
Input Password Again
```
If password wrong,it will hint "Password Error,Input Password Again",require enter again.

```
Password Right
```
If password correct,it will hint "Passowrd Right", then enter the next menu.

```
<Function Setup>
2.Erase Password
```
(5)Rotate the【Corder】, choose "2.Erase Password"

```
<Function Setup>
2.Erase Password
```
(6)Press【Enter】button.

(7)Key in 6 digit new password.For example use"ABCDEFG"as password,the cursor flashing at the first letter,rotate the 【Coder】, choose letter"A"

<Create Password>
A

(8)Press 【Enter】 button , the cursor

<Create Password>
AA

(9)Repeat the 6、7 steps, finished key in 6 digit password.

<Create Password>
ABCDEFG

Clue to"Change Password Success!"

Change Password Sucess!

(10)Finish amendment , return back to previous menu automatically,press the 【EXIT】 button till resume to the standby screen.

<Function Setup>
1.Change Password

SPEAKER MANAGEMENT

6.3.4 Adjust the Delay of Output Channel

For example ：Adjust the delay of OUT1 as 9.996ms。

（1)Press the 【CH1】 button , system enter the EQ1 submenu of EQ defaultly.

SPEAKER MANAGEMENT

(2)Press the 【DELAY】 button , enter the DELAY menu.

Out1   EQ1:PEQ
20.3Hz 0.0dB 0.30Oct

yellow light

(3)Rotate the 【Coder】 , adjust the delay as 9.996ms。

Out1
Delay   0.000   ms

yellow light

(4)Finish setting , press the 【EXIT】 button resume to the standby screen.

Out1
Delay   9.996   ms

yellow light

SPEAKER MANAGEMENT

6.3.5 Adjust the Gain of Output channel and signal chosen.
　　For example ： Adjust the Gain of OUT1 as +5dB; choose the signal as INB。

（1）Long press the【CH1】button, system enter the Eq1 submenu of EQ defaultly.

SPEAKER MANAGEMENT

(2)Press the【GAIN】button , enter the Gain Menu.

Out1　　　　　EQ1:PEQ
20.3Hz　0.0dB　0.30Oct

yellow light

(3)The cursor flashing at the Gain , rotate the【Coder】 , adjust the gain as +5dB.

Out1　　　　Gain:　0dB
A:ON　B:OFF　C:OFF　D:OFF

yellow light

(4)Press the【Enter】button , the cursor flashing at the signal INA

Out1　　　　Gain:　+5dB
A:ON　B:OFF　C:OFF　D:OFF

yellow light

(5)Rotate the【Coder】choose "OFF"

Out1　　　　Gain:　+5dB
A:OFF　B:OFF　C:OFF　D:OFF

yellow light

(6)Press【Enter】button , the cursor flashing at the signal INB.

Out1　　　　Gain:　+5dB
A:OFF　B:OFF　C:OFF　D:OFF

yellow light

7.2.4 Revise the password

SPEAKER MANAGEMENT

（1）Anytime , can press the 【SYSTEM】button enter the system menu.

SYSTEM SETUP MENU
1.Device ID Setup

(2)Rotate the【Corder】choose the submenu "2.Lock Menu Setup"

<Device ID Setup>
2.Lock Menu Setup
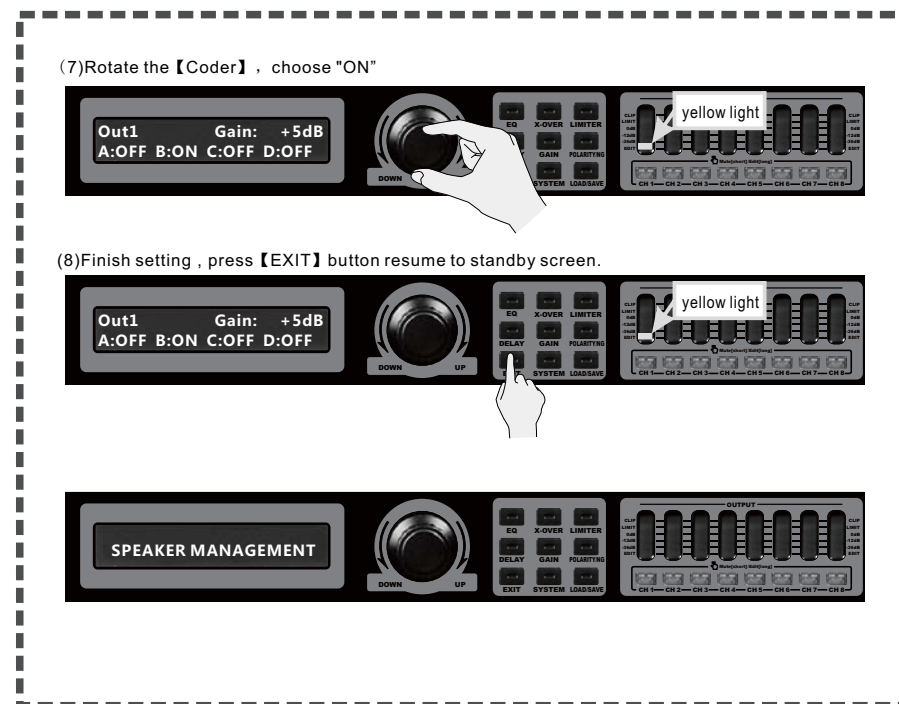
(3)Press【Enter】button enter the menu.

<Password Setup>
Input Password

(4)Key in the pre-set password. Rotate the【Corder】：choose the letter
【Enter】：confirm the keyin letter
【EXIT】：Backspace

Password Error
Input Password Again

If the password is wrong,it hints "Password Error,Input Password Again" require you enter again.

Password Right

If the password is right,it hints "Passowrd Right" enter the next menu.

<Function Setup>
1.Change Password
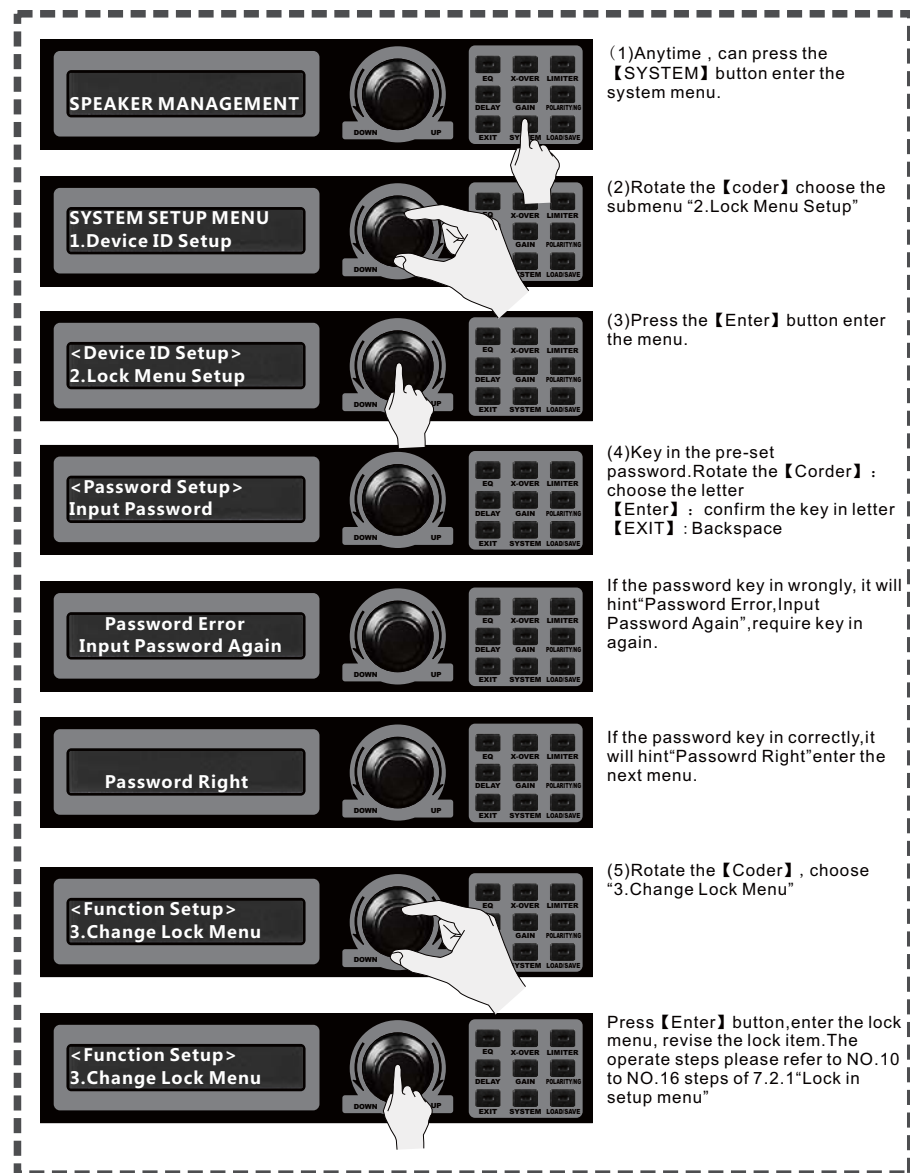
(5)Rotate the【Corder】, choose "1.Change Password"

<Function Setup>
1.Change Password

(6)Press【Enter】

7.2.3 Revise the lock item.

SPEAKER MANAGEMENT

（1）Anytime , can press the 【SYSTEM】button enter the system menu.

SYSTEM SETUP MENU
1.Device ID Setup

(2)Rotate the 【coder】choose the submenu "2.Lock Menu Setup"

<Device ID Setup>
2.Lock Menu Setup

(3)Press the 【Enter】button enter the menu.

<Password Setup>
Input Password

(4)Key in the pre-set password.Rotate the 【Corder】: choose the letter
【Enter】: confirm the key in letter
【EXIT】: Backspace

Password Error
Input Password Again

If the password key in wrongly, it will hint"Password Error,Input Password Again",require key in again.

Password Right

If the password key in correctly,it will hint"Passowrd Right"enter the next menu.

<Function Setup>
3.Change Lock Menu

(5)Rotate the 【Coder】, choose "3.Change Lock Menu"

<Function Setup>
3.Change Lock Menu

Press 【Enter】button,enter the lock menu, revise the lock item.The operate steps please refer to NO.10 to NO.16 steps of 7.2.1"Lock in setup menu"

（7）Rotate the 【Coder】, choose "ON"

Out1   Gain: +5dB
A:OFF B:ON C:OFF D:OFF

yellow light

(8)Finish setting , press 【EXIT】button resume to standby screen.

Out1   Gain: +5dB
A:OFF B:ON C:OFF D:OFF

yellow light

SPEAKER MANAGEMENT

6.3.6 Adjust the phase of output channel

For example ： Adjust the phase of OUT1 as reversed phase.

(1)Long press the【CH1】button，system enter the EQ1 submenu of EQ defaultly.

SPEAKER MANAGEMENT

(2)Press the【POLARITY/NG】 button，enter to the menu of POLARITY/NG.

Out1   EQ1:PEQ
20.3Hz 0.0dB 0.30Oct

yellow light

(3)Rotate the【Corder】,adjust the phase as "-"

Out1
       Polarity=[+]

yellow light

(4)Finish setting，press the【EXIT】button, resume to the standby screen.

Out1
       Polarity=[-]

yellow light

SPEAKER MANAGEMENT

7.2.2 Phenomenon of lock the parameters

Suppose locked the limiter of the output channel according to 6.2.1，then the parameters of limiter can not be revise.Phenomenon as below:

（1）Press the【CH1】button，system enter the EQ1 submenu of EQ.

SPEAKER MANAGEMENT

(2)Press the【LIMITER】button.
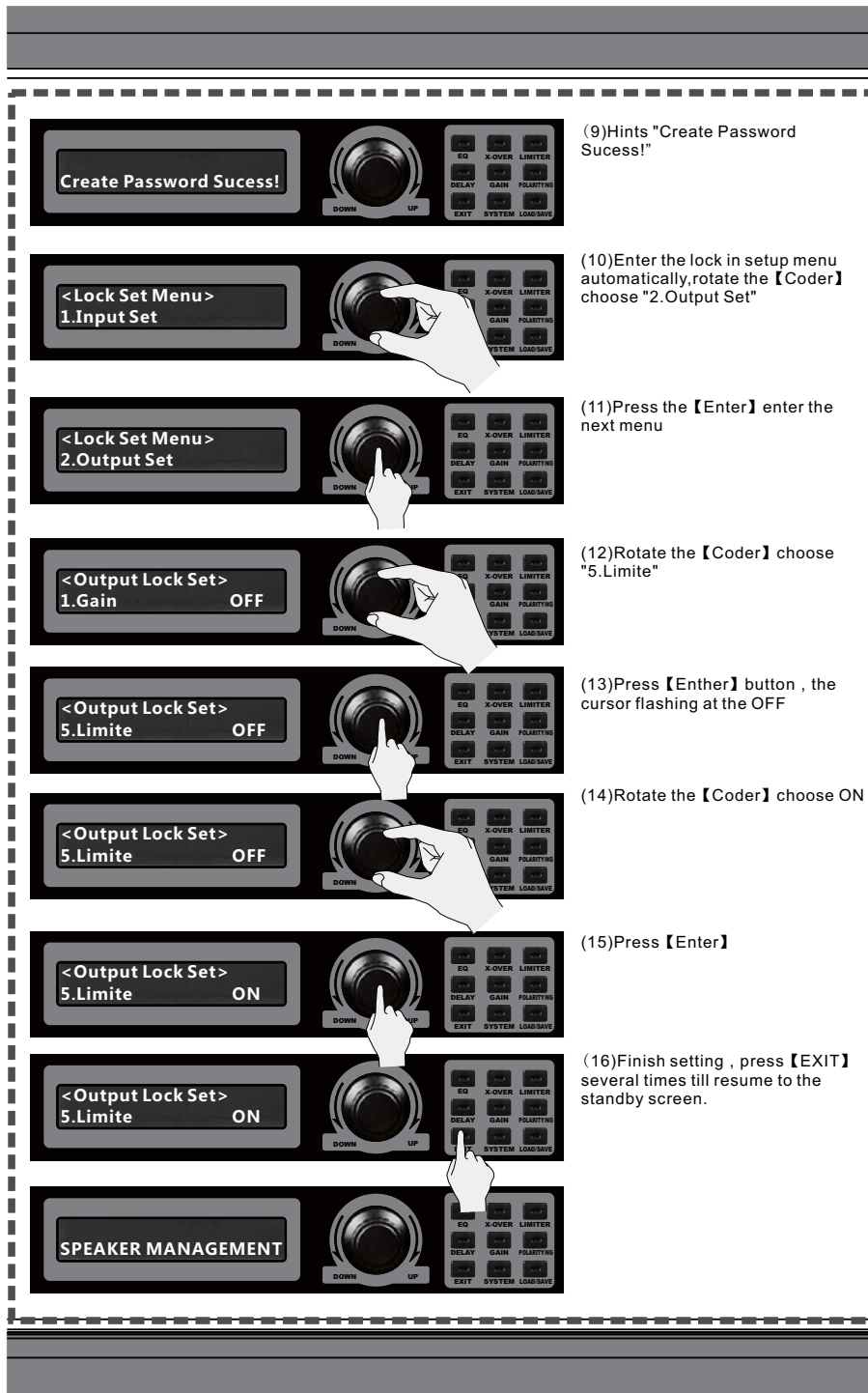
Out1   EQ1:PEQ
20.3Hz 0.0dB 0.30Oct

yellow light

(3)Hints the limiter has been locked, please unlock it.The unlock method please refer to next paragraph "revise lock item"

Unlock Please
Limiter Has Locked

yellow light

(4)Press the【EXIT】button resume to standby screen.

Unlock Please
Limiter Has Locked

yellow light

SPEAKER MANAGEMENT

8.System Menu

Press【SYSTEM】button,enter the system menu,includes below 6 menu:

1.Device ID Setup
　　Set up the ID NO.. And it is used PC software to choose connector with the nominated device.

2.Lock Menu Setup
　　After setup the parameters, in order someone revise the parameters, you can set password with 6 digital.

Parameters of lock setup menu :

Input	Output	System
1.Noisegate	1.Gain	1.Load Data
2.Gain	2.Delay	2.Save Data
3.Delay	3.Polarity	3.Erase Data
4.Polarity	4.X_over	4.Device ID
5.EQ	5.Limite	5.Backlight
6.Mute	6.Matrix	6.Edit Key
7.CH_Mark	7.EQ	7.Channel Copy
8.LINK	8.Mute	8.Power On
9.All Locked	9.CH_Mark	9.All Locked
10.LINK		
11.All Locked		

3. (Power On Setup)
　　Set up extra action of turn on the device.
　　(1) Keep State
　　(2) All Mute
　　(3) Load

4.(Backlight Setup)
　　Set up the LCD backlight
　　(1)Open:always light
　　(2)10s: The backlight will go off in 10 seconds if no operation.

5.(Current Program)
　　Check the current program name

6.(System Information)
　　Check the system version information.

Following, let's introduce the operation procedure of each submenu :

8.1 Revise the device ID
  For example：Revise the device ID as 5.

SPEAKER MANAGEMENT

（1）Anytime，press the【SYSTEM】button enter the system menu.

SYSTEM SETUP MENU
1.Device ID Setup

(2)Press【Enter】button，enter the next menu.

<Device ID Setup>
1

(3)Rotate the【Coder】adjust as 5

<Device ID Setup>
5

(4)Press【Enter】

SYSTEM SETUP MENU
1.Device ID Setup

（5）Finish setting，press the【EXIT】button several times till resume to the standby screen.

SPEAKER MANAGEMENT

7.2 Lock menu set up

7.2.1 For example : Lock the limiter of the output channel

SPEAKER MANAGEMENT

（1）Anytime，press the【SYSTEM】button enter the system menu.

SYSTEM SETUP MENU
1.Device ID Setup

(2)Rotate the【Coder】choose the submenu "2.Lock Menu Setup"

<Device ID Setup>
2.Lock Menu Setup

(3)Press the【Enter】button enter the menu.

<Password Setup>
1.Create Password

(4)Rotate the【Coder】choose the submenu，choose setup or not setup the password to enter the sample for choose the setup password.。

<Password Setup>
1.Create Password

（5）Press【Enter】

<Create Password>
A

（6）Key in 6 digit password.Use "ABCDEFG" as password for example,the cursor flashing at the first letter,rotate the【Coder】choose'A'

<Create Password>
AA

(7)Press【Enter】，the cursor flashing at the 2nd letter.

<Create Password>
ABCDEFG

(8)Repeat the 6、7steps,key in 6 digit password.