Nakamichi®

NDS4835AU

User Manual

Nakamichi
OUTPUT
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
CONTROLLER
PC
NDS4835AU

DIGITAL SOUND AMPLIFIER

nakamichicaraudio.com nakamichi.global nakamichi.caraudio

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INTROUCTION AND TROUBLESHOOTING

Thank you for your purchase and welcome to the world of Nakamichi! Please keep your original proof of purchase or invoice in a safe place in case of any warranty claims. Do also mail or register your warranty with the official Nakamichi service centers and/or agents to ensure that you are provided with the relevant technical support if required.

NOTICE

1. To prevent short circuit, please keep the device away from water or damp places.
2. If water or any other liquid enters the device, cut off the power immediately, and inform the nearest Nakamichi Service Center or Agent to inspect the product.
3. Users are not recommended to disassemble the device as there are no user serviceable parts inside, please contact the nearest Nakamichi Service Center if necessary.

TROUBLESHOOTING

Ensure all cables and prts are securely connected before turning on the power.Shown below is the basic troubleshooting procedure that you should follow.

When a failure occurs:
Before sending the unit for repair, please refer to the table for common troubleshooting solutions.

⇨

When it is still not repairable after inspection:
Please return the unit to factory settings.

⇨

Still unable to repair:
Please consult the nearest service center or authorized agent for further aptions.

Troubleshooting method:

No.	Malfunction	Reason and Solution
1	No Power	• Check the power connection and make sure it's sucure. • Check the ACC connection and make sure it's secure.
2	No Sound	• Double check if the unit is in MUTE mode. • Check if you have choose the correct input channel.
3	Unable to connect through USB	• Check the USB connection and make sure it's secure. • Check if the driver "HID-compliant device" has been properly installed in your PC.

WHAT'S IN THE BOX

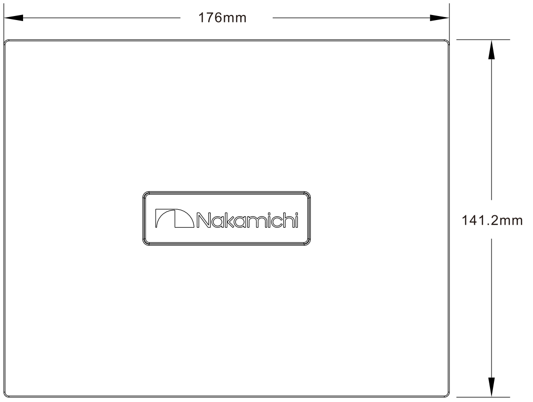
NDS4835AU	1 PC
User Manual	2 PCS (1 Chinese, 1 English)
USB2.0 Cable(1.5m)	1 PC
Self-Tapping Oval Head Screws (4*20)	4 PCS
Phillips Flat Head Machine Screw (3*6mm)	8 PCS
Mounting brackets	4 PCS
Velcro	2 PRS

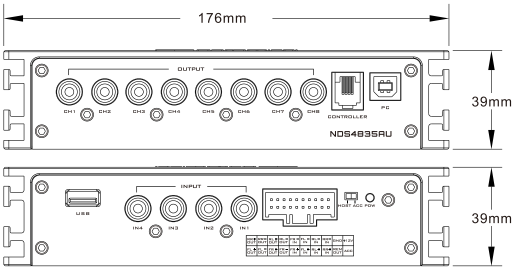
PRODUCT TECHNICAL DATA

Product Data	
Dynamic Range(RCA Input)	≥100dB
S/N (RCA Input)	≥90dB
THD	≤0.05%
Frequency Response	20Hz～20KHz
Input Impedance	Low level:20KΩ; High level:51Ω
Low Level Output Impedance	51Ω
Signal Input Range	RCA:5.5Vpp; High level:26Vpp
Signal Output Range	RCA:5.5Vpp; Power amplifier:4CHx25W
Working Temperature	-20～70℃
Power	DC 9V～16V
REM Input	High level Input signal:FL+/FL- or ACC control cable
REM Output	+12V Start up voltage output
Standby Power	≤0.1W
Net Weight	Approx. 0. 85 kg
Product Dimension	176(L) *141.2(W) *39(H)mm

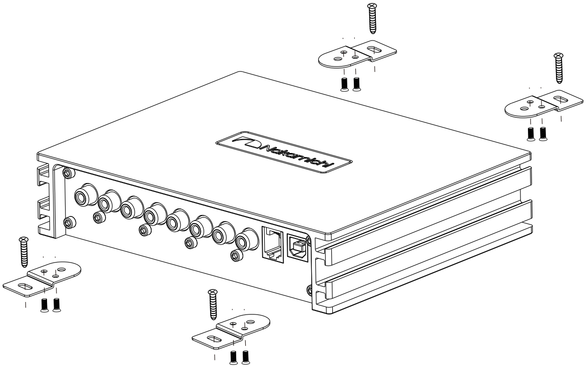
Technical Sheet	
Input Type	4 channels high Level, 4 channels low level, support built-in Bluetooth, support U disk playback, Support external wiring controller
Output Type	8 channels low level, 4CHx25W power
Output Gain	Gain range: mute, -59.9dB～0.0dB
Output Signal EQ	31 band Equalizer Engine: 1. Frequency range: 20Hz～20kHz, 1Hz accuracuy 2. Q value (slope): 0.404～28.85 3.Gain: -12.0dB～+ 12.0dB, 0.1dB accuracuy
Output Signal Crossover	Each output is equipped with multi-order high and low pass independent filters. 1. Filtering types: Link-Ril, Butter-W, Bessel 2. Filtering frequency division point: 20Hz～20kHz. resolution 1Hz 3. Filter slope (slope) setting: 6dB / Oct to 48dB / Oct and OFF
Output Phase and Time Alignment	Each output channel can be adjusted for phase and delay, parameter range: Phase: in-phase or reverse-phase (0˚/ 180˚) Delay: 0.000 to 20.000ms, 0 to 692 cm，0 to 273 inch
Presets	Save 6 presets into the device

PEODUCT DIMENSIONS


176mm
Nakamichi
141.2mm

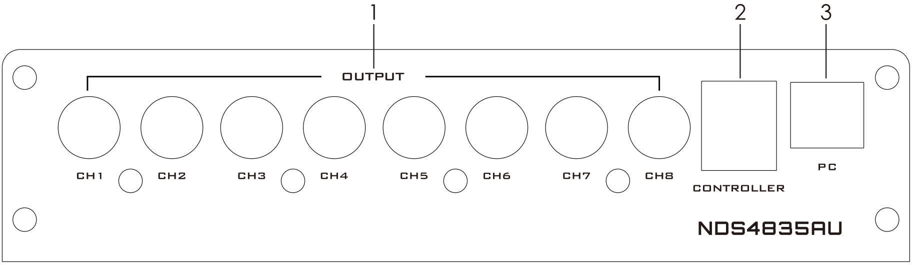

176mm
OUTPUT
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
CONTROLLER
PC
NDS4835AU
39mm
INPUT
USB
IN4
IN3
IN2
IN1
HOST ACC
POW
RR+ OUT
RR- OUT
RL+ OUT
RL- OUT
FR- IN
FL- IN
RL- IN
RR- IN
GND
+12V
FL+ OUT
FL- OUT
FR+ OUT
FR- OUT
FR+ IN
FL+ IN
RL+ IN
RR+ IN
REM OUT
ACC
39mm

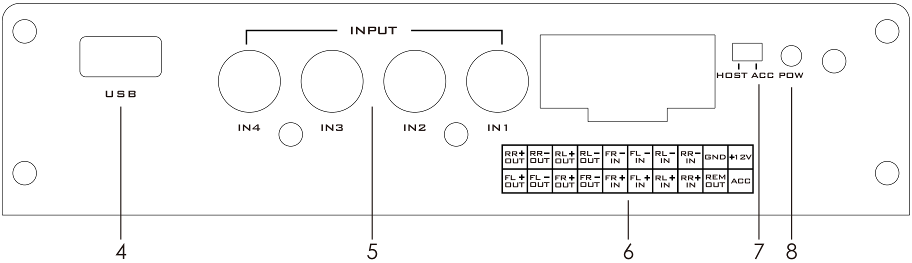
INSTALLATION INSTRUCTIONS



INTRODUCTION

The machine interface diagram is as follows:


1
2
3
OUTPUT
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
CONTROLLER
PC
NDS4835AU


INPUT
USB
IN4
IN3
IN2
IN1
HOST ACC POW
RR+ OUT
RR- OUT
RL+ OUT
RL- OUT
FR- IN
FL- IN
RL- IN
RR- IN
GND
+12V
FL+ OUT
FL- OUT
FR+ OUT
FR- OUT
FR+ IN
FL+ IN
RL+ IN
RR+ IN
REM OUT
ACC
4
5
6
7
8

1. **Low Level output port**
   Connect up to 8 channels low level output.
2. **The controller port**
   Data call and total volume adjustment can be performed by the line controller.
3. **PC connection port**
   USB2.0 port, no need to download the driver installation, connected to the computer sound software installed automatically.
4. **USB Port**
   Insert the U disk, and play the songs in the U disk under the audio source of the player.
5. **Low level input port**
   Connect up to 4 channels low level input.
6. **High level input and output port**

RR+ OUT	RR- OUT	RL+ OUT	RL- OUT	FR- IN	FL- IN	RL- IN	RR- IN	GND	+12V
FL+ OUT	FL- OUT	FR+ OUT	FR- OUT	FR+ IN	FL+ IN	RL+ IN	RR+ IN	REM OUT	ACC

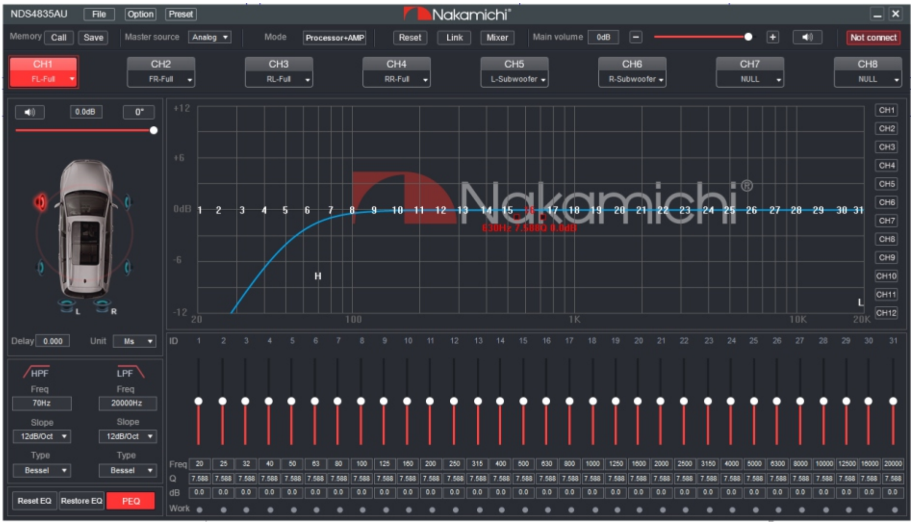
   a. “+” is positive or positive; “-” is negative or inverted (ground).
   b. Before connecting the power supply, you must confirm that the power supply meets the designed power requirements and connect in strict accordance with the equipment instructions. Otherwise, the equipment may be damaged and may cause accidents such as fire, electric shock, etc.
7. **Machine start mode switch**
   When the switch is turned to the "ACC" terminal, the machine is started by ACC, and when it is turned to the "HOST" terminal, the machine is started by the high level FL+/FL- input signal.
8. **Power indicator light**

SOFTWARE INTRODUCTION

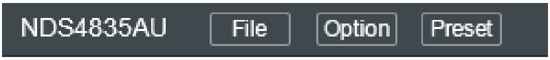
PC Software Operation Introduction

(PC can be downloaded from the official website (http://www.nakamichicaraudio.com, CONTACT, Downloads))

Computer Configuration Requirements: Screen resolution higher than 1280 x 768, otherwise the software UI is incomplete, only suitable for windows operation system laptop, desktop and pads.

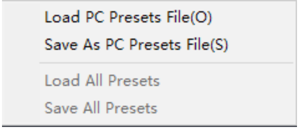

NDS4835AU
File
Option
Preset
Nakamichi
Memory
Call
Save
Master source
Analog
Mode
Processor+AMP
Reset
Link
Mixer
Main volume
0dB
Not connect
CH1 FL-Full
CH2 FR-Full
CH3 RL-Full
CH4 RR-Full
CH5 L-Subwoofer
CH6 R-Subwoofer
CH7 NULL
CH8 NULL
0.0dB
0°
L
R
Delay 0.000
Unit Ms
HPF
Freq 70Hz
Slope 12dB/Oct
Type Bessel
LPF
Freq 20000Hz
Slope 12dB/Oct
Type Bessel
Reset EQ
Restore EQ
PEQ
+12
+6
0dB
-6
-12
20
100
1K
10K
20K
H
L
630Hz 7.588Q 0.0dB
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
CH9
CH10
CH11
CH12
ID
Freq
Q
dB
Work

1. Menu editing area

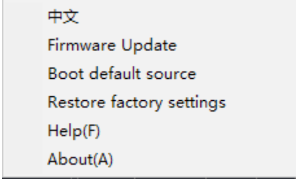

NDS4835AU
File
Option
Preset

Main functions: File, options and preset operation.

a. Click the "File" pop-up window, and select to load the scene on you computer, save it as a scene on you computer, load the whole machine scene or save the whole machine scene.

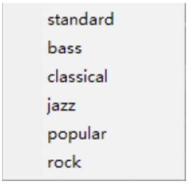

Load PC Presets File(O)
Save As PC Presets File(S)
Load All Presets
Save All Presets

b. Click on "Option" to select Chinese and English switching, advanced , firmware Update,restore factory settings, help and about settings.

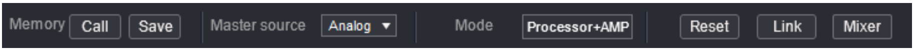

中文
Firmware Update
Boot default source
Restore factory settings
Help(F)
About(A)

SOFTWARE INTRODUCTION

C. Click on the "Preset" pop-up window to select standard, bass, classical, jazz, popular and rock preset.


standard
bass
classical
jazz
popular
rock

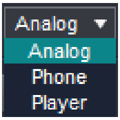
2. Function edit area


Memory
Call
Save
Master source
Analog
Mode
Processor+AMP
Reset
Link
Mixer

Main functions: memory, master source, mode selection, reset, link and mixer settings.

a. Click "Call" or "Save" to recall or save 6 sets of scene data.

b. Click the drop-down box of "Master source" to select the input audio source. There are analog, Bluetooth and player options.

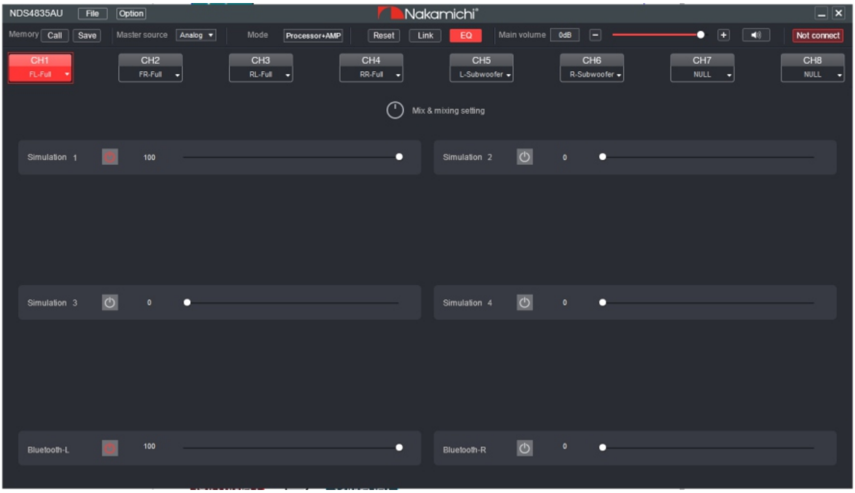

Analog
Analog
Phone
Player

c. Click the "Mode" box to switch the processor or processor + AMP.

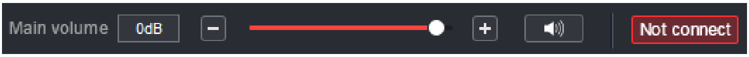
d. Click "Reset" to select the output configuration to clear or restore to the default state.

e. Click "Joint debugging" to set the synchronization method of joint debugging: copy from left to right or copy from right to left.

f. Click "Mixer" to enter the mixing interface, the interface is as shown below.


NDS4835AU
File
Option
Nakamichi
Memory
Call
Save
Master source
Analog
Mode
Processor+AMP
Reset
Link
EQ
Main volume
0dB
Not connect
CH1
FL-Full
CH2
FR-Full
CH3
RL-Full
CH4
RR-Full
CH5
L-Subwoofer
CH6
R-Subwoofer
CH7
NULL
CH8
NULL
Mix & mixing setting
Simulation 1
100
Simulation 2
0
Simulation 3
0
Simulation 4
0
Bluetooth-L
100
Bluetooth-R
0

3. Main volume and software connection editing area

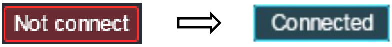


Main volume 0dB

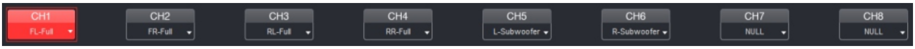
Main functions: master volume and computer software connection settings.

a. Main volume adjustment range: off, -59dB ~ 6dB. Click the speaker button to mute the main volume.

b. Click the "Not Connected" button to connect the host with a PC.



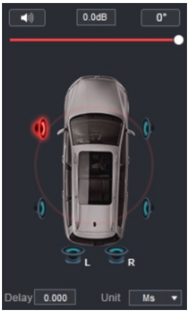
4. Function editing area



CH1 FL-Full
CH2 FR-Full
CH3 RL-Full
CH4 RR-Full
CH5 L-Subwoofer
CH6 R-Subwoofer
CH7 NULL
CH8 NULL

Main function: configure the type of output channel.

5. Channel delay, volume, phase editing area



0.0dB 0°

Delay 0.000 Unit Ms

Main functions: output channel volume, mute, forward and reverse and delay settings.

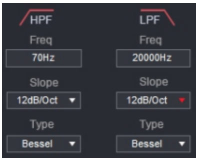
a. Push the fader left or right to adjust the sound size, or enter a value or roll the mouse wheel in the volume input box to adjust the sound size. Click the speaker button to switch mute.

b. Positive phase adjustment: Click [0°] or [180°] to switch between positive phase and reverse phase.

c. Delay: set the delay value by scrolling the mouse wheel in the delay input box, or enter the value to set the delay value.

d. Delay Unit button: Click the drop-down list to select milliseconds, centimeters, and inches.

6. Channel divider editing area



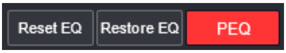
HPF
Freq 70Hz
Slope 12dB/Oct
Type Bessel

LPF
Freq 20000Hz
Slope 12dB/Oct
Type Bessel

Main Function Setup: Channel High & Low Pass Filter Setup.

Adjustable: Filter Type, Frequency point and Q Value (Gradient or Slope).

7. Equalizer editing area

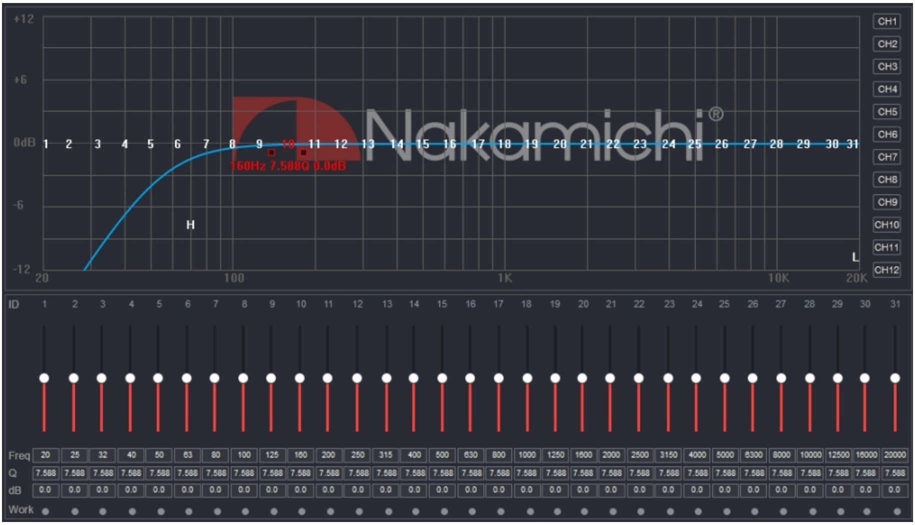

Reset EQ
Restore EQ
PEQ

a. Reset EQ: It is used to restore the parameters of the 31-band equalizer to the original pass-through mode (the frequency of the equalizer, the Q value and the gain are restored to the initial value).

b. Restore EQ: Switch between the currently designed equalizer state parameters and the pass-through mode (the gain of all equalization points is restored to 0 dB, the frequency and value are unchanged).

c. Click PEQ Mode to switch GEQ Mode. The Q value and frequency cannot be adjusted in the PEQ Mode interface.

8. Channel EQ editing area


+12
+6
0dB
-6
-12
20
100
1K
10K
20K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
160Hz 7.588Q 0.0dB
H
L
Nakamichi
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
CH9
CH10
CH11
CH12
Work

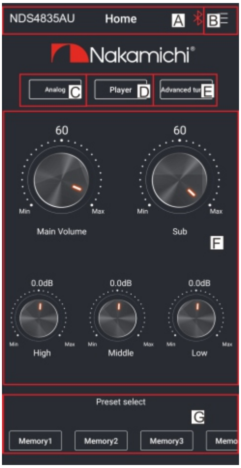
ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Freq	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000
Q	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588	7.588
dB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Main function: The equalization setting of the current output channel, 31-band equalization adjustable items: frequency, Q value (response bandwidth) and gain (increase or decrease the frequency response amplitude near the frequency point).

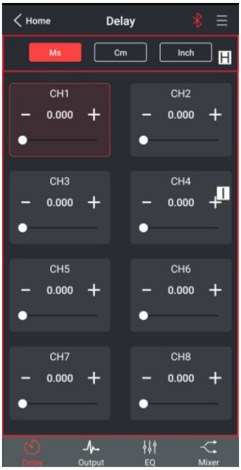
SOFTWARE INTRODUCTION(SMARTPHONE)

Smart-phone Software Operation Instruction

(APP can be downloaded from the official website(http://www.nakamichicaraudio.com, CONTACT, Downloads))


NDS4835AU
Home
A
B
Nakamichi
Analog
C
Player
D
Advanced tur
E
60
60
Min
Max
Min
Max
Main Volume
Sub
F
0.0dB
0.0dB
0.0dB
High
Middle
Low
Preset select
G
Memory1
Memory2
Memory3
Memo

Home


Home
Delay
Ms
Cm
Inch
H
CH1
0.000
CH2
0.000
CH3
0.000
CH4
0.000
I
CH5
0.000
CH6
0.000
CH7
0.000
CH8
0.000
Delay
Output
EQ
Mixer

Delay

1. Home Interface

It can restore factory settings, power-on default sound source, share sound effects, professional sound settings, save sound effects, turn on local sound effects, check the model and version number of the unit. Mode,Audio source setting, player, advanced tuning interface entry and volume setting; storage and recall of 6 sets of preset scenes.

A. Connection Status:

Red means not connected, green means connected.

B. Menu:

You can perform operations such as restoring factory settings, starting default sound source, sharing sound effects,professional sound settings, saving sound effects, opening local sound effects, and viewing the model and version number of the machine.

C. Audio source selection:

There are analog, Bluetooth and player options.

D. Player:

Click on the player to enter the player interface, you can slide left and right to adjust the total volume, the volume range: 0 ~ 66, can play songs in the U disk.

E. Advanced setting:

Click [Advanced Tuning] to enter the delay interface, channel interface, EQ and mixing interface settings.

F. Volume adjustment:

Press and hold the volume scale clockwise or counterclockwise to adjust the volume. The main volume range is 0 ~ 66, The subwoofer range: 0 ~ 60, The medium, high and low volume range -12dB ~ + 12dB.Tap the speaker button to mute the master volume.

G. Preset scene :

There are 1~6 presets to choose from.

2. Delay Interface

Sound field positioning output delay adjustment.

H. Unit switching:

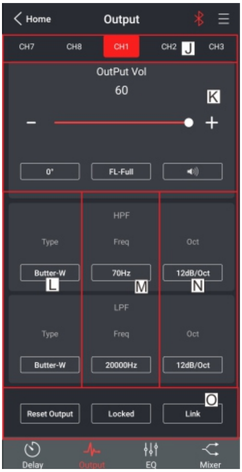
Switch between milliseconds, centimeters, and inches.

I. Delay setting:

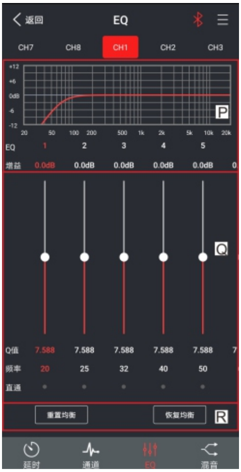
Click setting window of the corresponding channel. Slide the dots left and right to set the delay value. Delay settings can be made for CH1~CH8 speakers.

Delay range: millisecond range: 0.000 ~ 20.000; cm range: 0 ~ 692; inch range:0~273.

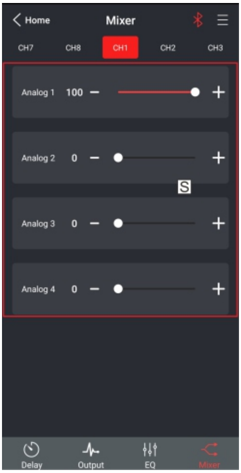
SOFTWARE INTRODUCTION(SMARTPHONE)


Home
Output
CH7
CH8
CH1
CH2
CH3
J
OutPut Vol
60
K
−
+
0°
FL-Full
HPF
Type
Freq
Oct
Butter-W
70Hz
12dB/Oct
L
M
N
LPF
Type
Freq
Oct
Butter-W
20000Hz
12dB/Oct
O
Reset Output
Locked
Link
Delay
Output
EQ
Mixer

Output


返回
EQ
CH7
CH8
CH1
CH2
CH3
P
EQ
1
2
3
4
5
增益
0.0dB
0.0dB
0.0dB
0.0dB
0.0dB
Q
Q值
7.588
7.588
7.588
7.588
7.588
频率
20
25
32
40
50
直通
重置均衡
恢复均衡
R
延时
通道
EQ
混音

EQ


Home
Mixer
CH7
CH8
CH1
CH2
CH3
Analog 1
100
Analog 2
0
S
Analog 3
0
Analog 4
0
Delay
Output
EQ
Mixer

Mixer

3. Channel Interface

Channel selection, volume, mute, forward and reverse, high and low pass frequency setting and joint tuning operation.

J. Output channel selection:

8 channels are available.

K. Channel type, volume, phase:

The volume can be adjusted by sliding left and right, the volume range: 0~60, click the speaker button to mute.Forward and reverse switching.Type selection for each output channel.

L. Channel type:Choose from Link-Rill, Butter-W and Bessel.

M. Slope selection:

6dB/Oct,12dB/Oct,18dB/Oct,24dB/Oct,30dB/Oct,36dB/Oct,48dB/Oct and OFF can be selected.

N. Frequency Range:20Hz~20KHz.

O. Channel joint debugging settings:

Click the joint debugging button, and the joint debugging window will pop up to select the joint debugging method.

4. EQ Interface

Corresponding to the adjustment of the output channel EQ curve (gain, Q value and frequency); reset equalization, pass-through equalization or parametric equalization operation settings.

P. EQ display:

Edit the display area.

Q. Output EQ gain, Q value and frequency settings:

Output EQ gain setting: A total of 31 EQ, left and right sliding screen can select EQ, you can drag the slider up and down. Select the first line value, and drag the slider bar left and right in the pop-up dialog box to adjust gain, the adjustment range: -12dB~+12dB.

Q value: Click the second line value, and drag the slider bar left and right in the pop-up dialog box to adjust, the adjustment range is 0.404~28.852.

Frequency setting: Click the third line value, and drag the slider bar left and right in the pop-up dialog box to adjust it. The adjustment range is 20Hz~20KHz

R. Reset equalization, restore equalization,

pass-through equalization settings:
Click [Reset EQ] to restore the parameters of the 31-band equalizer to the original pass-through mode (the equalizer frequency, Q value and gain are restored to their initial values).
When there is channel adjustment, display [straight-through equalization], click [straight-through equalization], click [OK], all values (frequency, Q value and gain) will return to the initial value. At this time, the [straight-through equalization] button will become [recovery equalization].Press the button and click [Resume Equilibrium], all values (frequency, Q value and gain) will be restored to the value before the pass-through.

5. **Mixer interface**

   4 Analog, Bluetooth-L and Bluetooth-R mixing options and Adjustment, adjustment range: 0～100.

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