Nakamichi®

NDS4610A-II
User Manual

DIGITAL SOUND AMPLIFIER

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CONTENTS

English

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:	When it is still not repairable after inspection:	Still unable to repair:
Before sending the unit for repair, please refer to the table for common troubleshooting solutions.	Please return the unit to factory settings.	Please consult the nearest service center or authorized agent for further aptions.

Troubleshooting method:

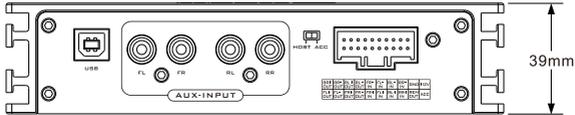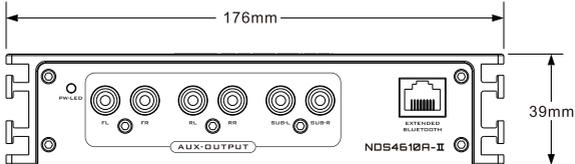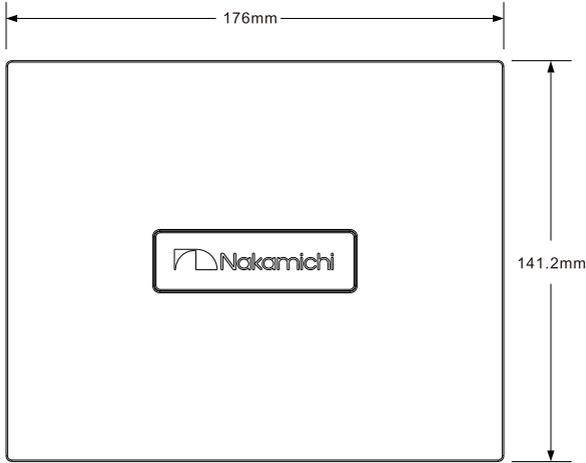| No.	Malfunction	Reason and Solution
1	No Power	• Check the power connection and make sure it's sucure. • Check the ACC connection and make sure it's secure.
2	No Sound	• Double check if the unit is in MUTE mode. • Check if you have choose the correct input channel.
3	Unable to connect through USB	• 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

NDS4610A-II	1PC
User Manual	2PCS(1 Chinese, 1 English)
USB2.0 Cable(1.5m)	1PC
Self-Tapping Oval Head Screws (4*20mm)	4PCS
Phillips Flat Head Machine Screw (3*6mm)	8PCS
Mounting brackets	4PCS
Velcro	2PRS

PRODUCT TECHNICAL DATA

Product Data	
Dynamic Range(RCA Input)	≥100dB
S/N(RCA Input)	≥98dB
THD	≤0.05%
Frequency Response	20Hz ~ 20KHz
Input Impedance	High Level : 240Ω; Level:12Ω
Low Level Output Impedance	100 Ω
Maximum Output Power	4CH×50W
Signal Input Range	RCA: 5.5Vpp; High Level:26Vpp
Signal Output Range	RCA: 5.5Vpp; High Level:26Vpp
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 (0.1A)
Standby Power	≤0.1W
Gross Weight	Approx. 1.2kg
Product Dimension	176(L) *141(W) *39(H)mm

Technical Sheet	
Input Type	4 Channels High Level, 4 Channels Low Level, Support built-in and external Bluetooth
Output Type	4 Channels High Level, 6 Channels Low Level
Output Gain	Gain Range: Mute, -59.9dB ~0.0dB
Output Signal EQ	10 Band Equalizer Engine: 1. Frequency range: 20Hz ~ 20kHz, 1Hz Accuracuy 2. Q value (slope): 0.404 ~ 28.85 3.Gain: -20.0dB ~ + 20.0dB, 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 30dB / 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
Presets	Save 15 presets into the device

English

PEODUCT DIMENSIONS

176mm

141.2mm

176mm

PW-LED

FL   FR   RL   RR   SUB-L SUB-R

EXTENDED
BLUETOOTH

AUX-OUTPUT

NDS4610A-II

39mm

USB
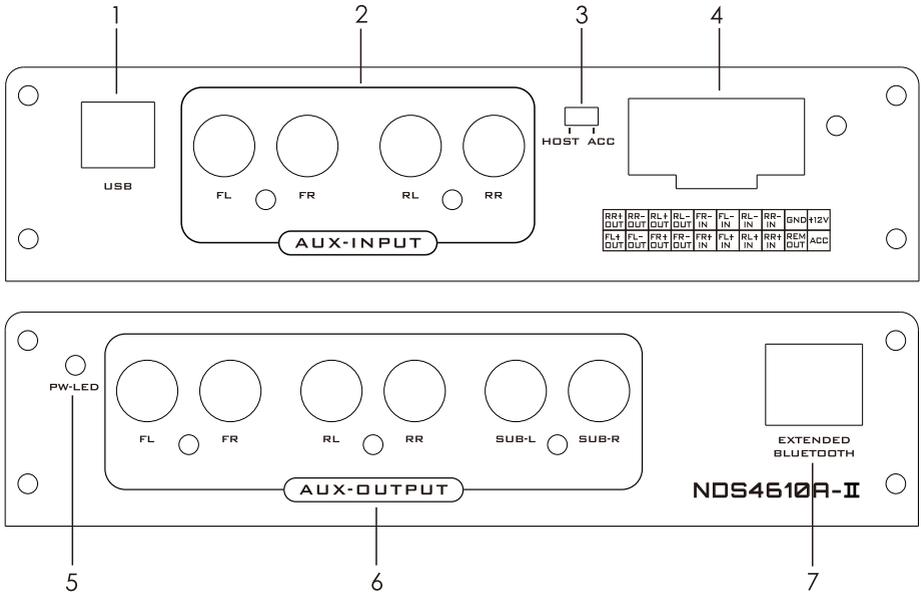
FL   FR   RL   RR

HOST ACC

AUX-INPUT

39mm

INSTALLATION INSTRUCTIONS
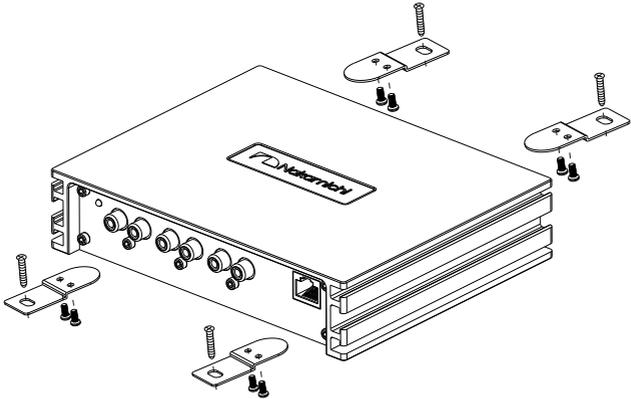
INTRODUCTION

The machine interface diagram is as follows:

1. USB2.0 Port, Connect to the computer tuning software
No need to download the driver installation, connected to the computer sound software installed automatically.

2. AUX Low level input port
Connect up to 4 channels low level input.

3. 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.

4. High level input and output port
Note: Only limited to the special-purpose wire material for the special car selected by the original factory, or the external wire material defined by the user.

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

5. Power indicator light

6. AUX Low level output port
Connect up to 6 channels of speaker output

7. External digital Bluetooth input port
Connect the external Bluetooth, the LED indicator will flash, the indicator will stop flash and will be always on once you have connected your Mobile phone to the device, then you can play music in your phone, and the device will change the high level input to Bluetooth Input.

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.
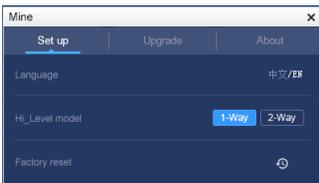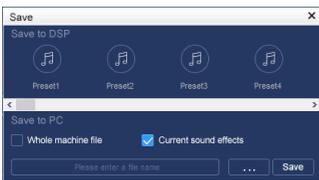

1. Menu editing area

Main functions: Mine, save, open and machine connection to host operations.

a. Click the "Mine" pop-up window, Chinese and English switching, Hi_level model,factory reset, firmware update and view about.
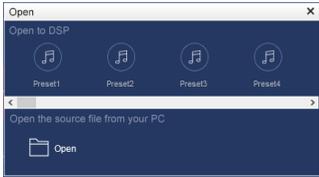

b. Click the "Save" pop-up window to save the preset sound effects to the machine or save the sound effects to the computer.
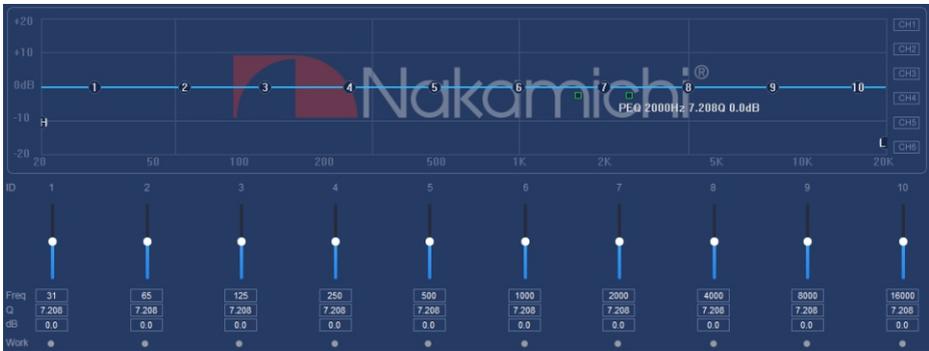
SOFTWARE INTRODUCTION

c. Click the "Open" pop-up window to open the sound effect file previously saved in the machine, or open the sound effect file stored on the computer.

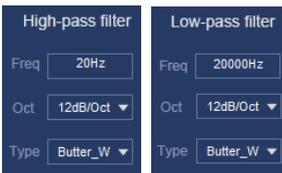d. Click the "Not Connected" button to connect the host with a PC.


2. Channel EQ editing area

Main function configuration: Equilibrium design of current output channel, 10-band equalization adjustable: frequency, Q value (response bandwidth) and gain (increasing or decreasing the frequency response amplitude near the frequency point).

3. Channel divider editing area

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

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

4. Equalizer editing area
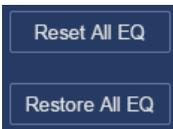
SOFTWARE INTRODUCTION

a. Reset EQ: It is used to restore the parameters of the all 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).

5. Channel delay editing area

Main function:delay value setting of output channel, delay unit selection.

a. Delay Unit: Click the left and right arrows to choose between milliseconds and centimeters.

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

6. Output channel editing area

Main functions: sound field positioning editing area, volume adjustment of each channel, positive and negative phase selection, mute and joint adjustment of left and right channels, etc.

7. Main volume editing area

Main functions: master volume and computer software connection settings.

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

SOFTWARE INTRODUCTION(SMARTPHONE)

Smart-phone Software Operation Instruction
(APP can be downloaded from the official website(http://www.nakamichicaraudio.com, CONTACT, Downloads))

Home

Delay

1. Home Interface

It can restore factory settings, share sound effects, save sound effects, turn on local sound effects, check the model and version number of the unit, and exit the software operation;Frequency mode, volume settings; storage and recall of 15 sets of preset scenes

A. Connection Status:
Red means not connected, green means connected.

B. Menu:
You can restore factory settings, share sound effects, save sound effects, turn on local sound effects, view the model and version number of the machine, and exit the software operation.

C. Frequency mode selection:
There are full frequency and two frequency division options.

D. 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 -20dB ~ + 20dB.Tap the speaker button to mute the master volume.

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

F. Scene preset:
There are 1~15 presets to choose from.

2. Delay Interface

Sound field positioning output delay adjustment.

G. 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~ CH6 speakers.
Delay range: millisecond range: 0.000 ~ 20.000; cm range: 0 ~ 692.

H. Unit switching:
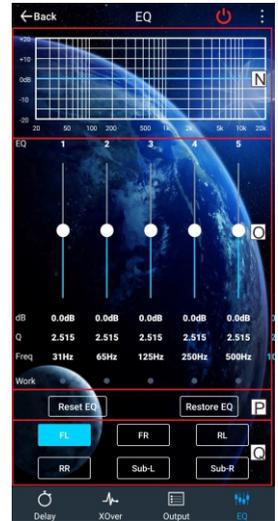Switch between milliseconds and centimeters.

SOFTWARE INTRODUCTION(SMARTPHONE)

XOver

Ouput

EQ

3. XOver Interface

Channel high-low-pass crossover setting with high-low-pass independent filtering. Adjustable: Filter type, frequency and Q value (slope or slope).

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

J. Slope selection: 6dB/Oct,12dB/Oct,18dB/Oct,24dB/Oct, 30dB/Oct and OFF can be selected.

K. Frequency Range:20Hz~20kHz.

4. Channel interface

Channel selection, volume, mute, forward and reverse, and joint adjustment operation.

L. Channel 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.

M. Channel joint debugging settings:

Click the joint debugging button to bring up the joint debugging window and select the

joint debugging method. Click the reset button to reset the output channel type so that the output can be customized. Click the lock button to lock the current channel.

5. 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.

N. EQ display:

Edit the display area.

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

Output EQ gain setting: A total of 10 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 the adjustment range: -20dB~+20dB. 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.

SOFTWARE INTRODUCTION(SMARTPHONE)

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.

P. Reset equalization, restore equalization, pass-through equalization settings: Click [Reset EQ] to restore the parameters of the 10-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.

Q. CH1~CH6 channel selection.

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FOR COMPLETE AUDIO SETTINGS INSTRUCTIONS

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