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Nakamichi NDSR260A-II Digital Signal Processor



INTROUCTION AND TROUBLESHOOTING

Thank you for your purchase and welcome to the world of Nakamichi! Please keep your

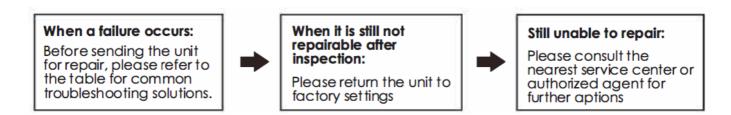
original proof of purchase or invo ice in a sate place in case of any warranty claims. Do also mail or register your warranty With the official Nakamichi service centers and/or agents to ensure that you are provided with the relevant technical support if required.

NOTICE

- 1. To prevent short circuit, please keep the device away from water or damp places.
- 2. If water or any other liqu id enters the device, cut off the power immediately, and inform the nearest Nakamichi Service Center or Agent to inspect the product.
- 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 parts are securely connected before turning on the power. Shown below is the basic troubleshooting procedure that you should follow.



Troubleshooting method:

No.	Malfunction	Reason and Solution			
1	No Power	 Check the power connection and make sure it's secure. 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

- NDSR260A-II 1Pc
- User Manual 2PCS (1 Chinese, 1 English)
- USB2.0 Cable(1 .5m) 1 PC

- Mechanical flat head screws(PM3x6mm) 8pc
- Self-Tapping Oval Head Screws(PA4x20mm) 4Pc
- Mounting brackets 4PCS
- Velcro(I 60x20mm) 2Prs
- 20P high level input signal line(0.2m) 1PC
- 20p Speaker cable(0.2m) 1PC
- 16p Speaker power cable(0.2m) 1 PC
- 25A FUSE 2Pcs
- External Bluetooth Antenna 1Pc

PRODUCT TECHNICAL DATA

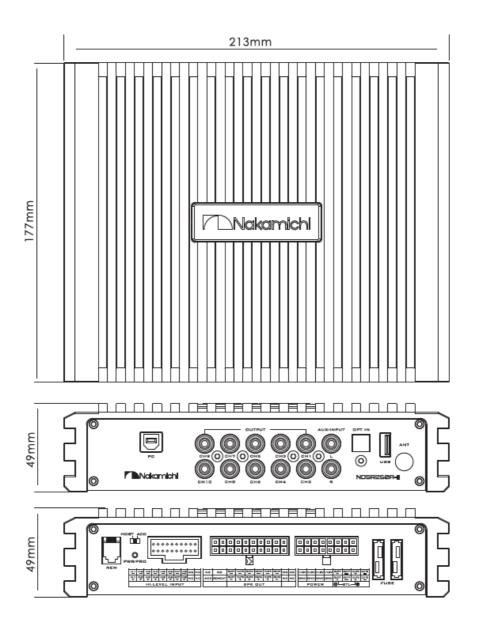
Product Data					
Dynamic Range(RCA Input)	≥ 10o 0dB				
S/N[RCA Input	≥ 98dB				
THD	≤ 50.05%				
Frequency Response	20Hz~20KHz				
Input Impedance	High Level: 51 Ω				
Low Level Output Impedance	51 Ω				
Signal Input Range	RCA: 7.5Vpp; High Level: 26Vpp				
Signal Output Range	RCA: 7.5Vpp; Amplifier Power: 2CHx80W[Bridged Ix20 0W)+6CHx50W				
Working Temperature	-20 ~ 1o·c				
Power	DC 9V~ 15V				
REM Intput	High Level Input Signal: HI +/H1- or ACC control cable				

REM Output	+12V Start up Voltage Output(250mA)			
Standby Power	≤ 0.1 W			
Net Weight	Approx.2kg			
Product Dimension	213(L)xl 77(W)x49(H)mm			

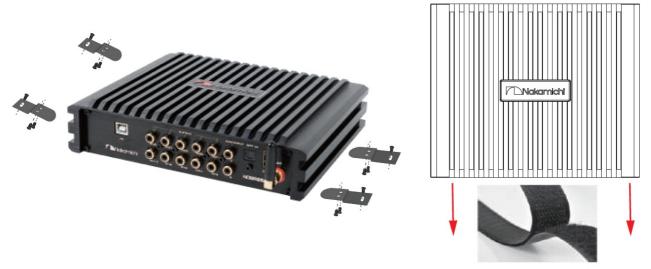
Technical Sheet						
Input Type	8 CH High Level, 2 CH Low Level, Built-in Bluetooth, U disk music, Optical					
	, - , - ,					
Output Type	10 Channels Low Level, 2CHx80W[Bridged lx200W)+6CHx50W Power					
Output Gain	Gain Range: Mute,-59.9dB~6dB					
Output Signal EQ	31 Band Equalizer Engine: 1. Frequency range: 20Hz~20KHz, I Hz Accuracy 2. Q value [slope): 0.404-28.852 3. Gain: -20.0dB- +20.0dB, 0.1dB Accuracy					
	Each output is equipped with multi-order high and low pass inde pendent filters.					
	1. Filtering types: Link-Ril, Butter-W, Bessel					
Output Signal Cros	2. Filtering frequency division point: 20HZ~20KHz. Resolution I H					
	3. Filter slope [slope) setting: 6dB/ Oct to 48dB /Oct and OFF					

	Each output channel can be adjusted for phase and delay, para meter range:
Output Phase and Time Alignment	Phase: in-phase or reverse-phase (0° /180°) Delay: 0.000 to 20.000ms. 0 to 692 cm, 0 to 273 inch
Presets	6 Presets into the device

PEODUCT DIMENSIONS

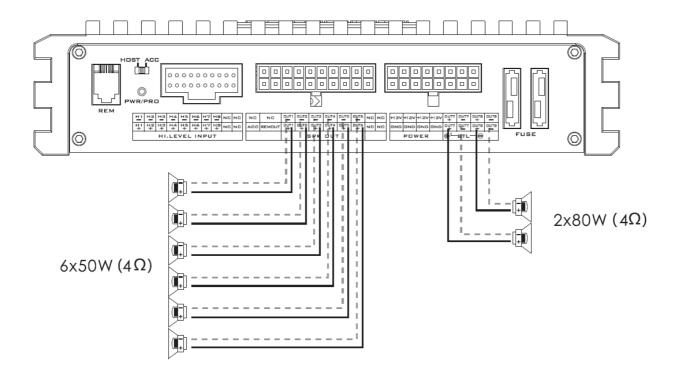


INSTALLATION INSTRUCTIONS

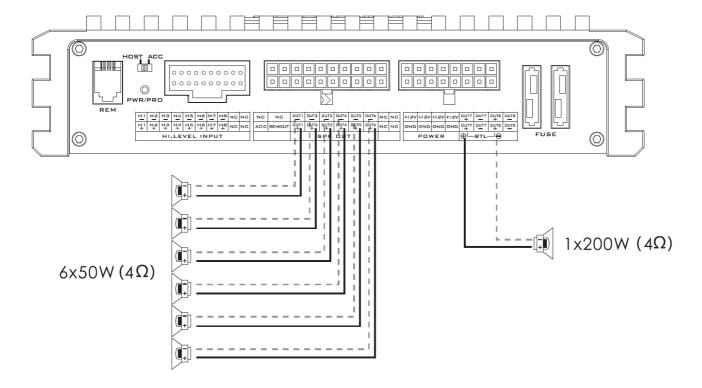


The Velcro Is Attached To The Bottom Of The Fuselage

THE SPEAKER WIRING IN NORMAL MODE

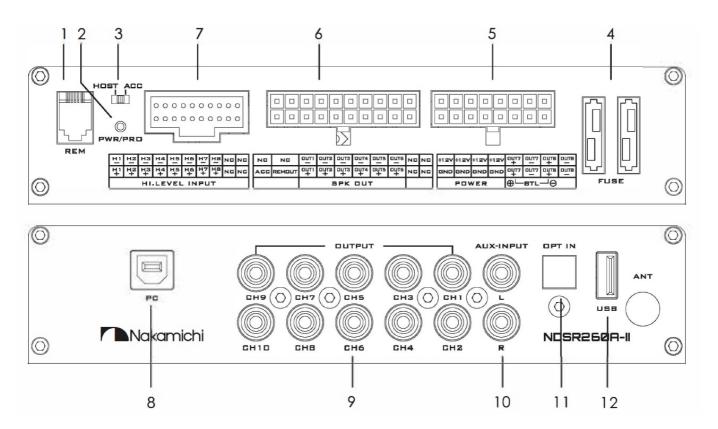


THE SPEAKER WIRING IN BRIDGE MODE



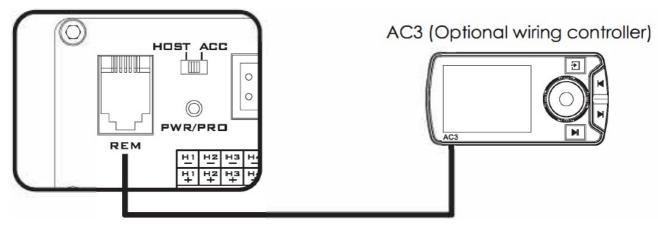
INTRODUCTION

The machine interface diagram is as follows:



1. The controller port

Data call and total volume adjustment can be performed by the line controller.



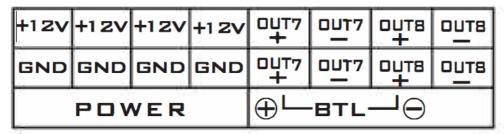
- 2. Power indicator light/Protection indicator light
- 3. Machine start mode switch

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 HI+/HI- input signal.

4. The fuse

Two 25A fuses.

- 5. High level output and power port
 - 7, 8 power amplifier output, can be bridged.



- 6. High level output port
 - 1 —6 power amplifier output.

NC	Z C	<u> </u>	OUT2	<u>—</u>	<u>UT4</u>	<u>UT5</u>	<u>ппте</u>	ZC	NC
ACC	REMOUT	맫			□UT4 +	□UT5 +	+ 9TUD	Z	ΝC
SPK OUT									

7. High level input port

•

<u>H</u> 1	HZ	НЗ	H4	H5	н6	H7	НB	NC	Z
H ₁ 1	H ₂ +	$+_{\boldsymbol{\Sigma}}^{\boldsymbol{T}}$	H4+	±5+	H ₆ +	H7+	ᄠ	Z	Z
HI.LEVEL INPUT									

- "+" is positive or positive;" is negative or inverted (ground).
- 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.

- 8. USB2.O Port, Connect to the computer tuning software

 No need to download the driver installation, connected to the computer sound software installed automatically.
- Low level output portConnect up to 10 channels low level output.
- 10. Low level input portConnect up to 2 channels low level input.
- 11. Optical input port

 When the optical input cable of in-car CD or DVD player is connected, the sound

source of the DSP is switched to digital input, and optical digital signals can be played.

12. USB port Insert the USB flash drive and play the song in the USB flash drive under the player audio source.

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 7 68, otherwise the software UI is incomplete, only suitable for windows operation system laptop, desktop and pads.



1. Menu editing area



Main functions: File, options operation.

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

Load machine preset scenarios
Save as machine preset scenarios
Load the scene file on your computer
Save it as scene file on your computer
Loading machine scene
Save machine scene

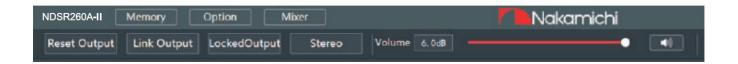
Note: If you need to share tuning parameters, please connect the machine, and "save

machine scene" to the personal computer to share this "machine scene".

 Click on "Option" to select Chinese and English switching, Noise Gate, RESET, In Put VOL and About(A)

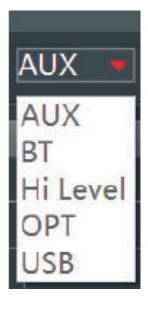


Function editing area

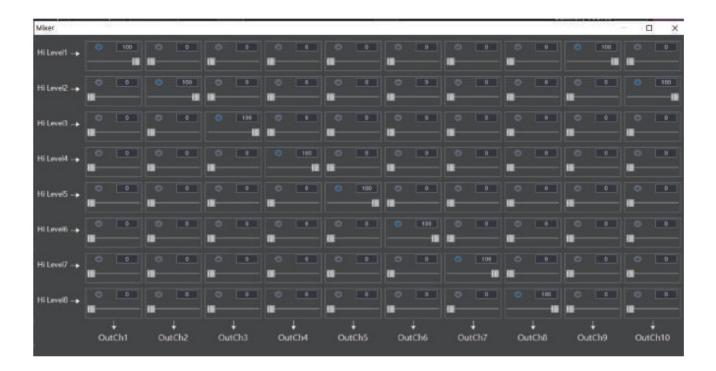


Main functions: scene, master source, mixer source, channel type, link, mixer and mode settings.

- Scene: 6 sets of scene data can be recalled or stored.
- Master source: Click the input audio source drop-down list to select the input audio source. AUX, BT, HI Level, OPT and USB.



- Reset: Click Reset to clear the channel type or restore the default channel type.
- Link: Click the Link to set the Link synchronization mode: copy from left to right or copy from right to left.
- Click "Mixer" to enter the mixing interface, the interface is as shown below.



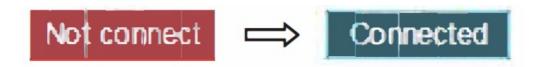
• Click "Stereo" to switch between stereo or bridge.

Main volume and software connection editing area



Main functions: master volume and computer software connection settings.

- Main volume adjustment range: off, -59.9-6dB. Click the speaker button to mute the main volume.
- Click the "Not Connected" button to connect the host with a PC.

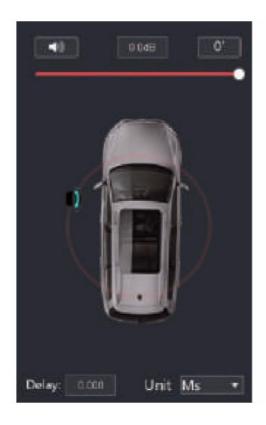


Output channel type editing area



• Main function: configure the type of output channel.

Channel delay, volume, phase editing area



- 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.
- Positive phase adjustment: Click [0°] or [180°] to switch between positive phase and reverse phase.
- Delay: set the delay value by scrolling the mouse wheel in the delay input box, or enter the value to set the delay value.
- Delay Unit button: Click the drop-down list to select milliseconds, centimeters, and inches.

Channel divider editing area



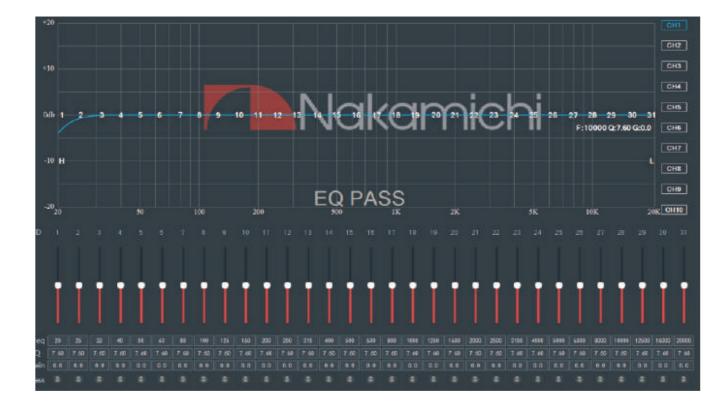
- Main Function Setup: Channel High & Low Pass Filter Setup.
- Adjustable: Filter Type, Frequency point and Q Value (Gradient or Slope).

Equalizer editing area



- Reset EQ: It is used to restore the parameters of the all equalizer to the original passthrough mode (the frequency of the equalizer, the Q value and the gain are restored to the initial value).
- Restore EQ: Switch between the currently designed equalizer state parameters and the
 pass-through mode (the gain of all equalization points is restored to O dB, the frequency and value are unchanged).
- Click PEQ Mode to switch GEQ Mode. The Q value and frequency cannot be adjusted in the PEQ Mode interface.

Channel EQ editing area



Main function configuration: Equilibrium design of current output channel, 31-band equalization adjustable: frequency, Q value [response bandwidth) and gain (increasing or decreasing 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.nokomichicaraudio.com, CONTACT, Downloads))







Home Delay Output

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; volume, master source, storage and recall of 6 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, tum on local sound effects, view the model and version number of the machine, and exit the software operation.

C Master source:

Master source: AUX/ Bluetooth / Hi.level / Optical / USB to choose from.

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 is 0-60, The medium, high and low volume range is -20dB- +20dB.

• E Scene preset:

There are 1-6 presets to choose from.

F Advanced settings:

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

Delay interface

Sound field positioning output delay adjustment.

• G Unit switching:

Switch between milliseconds, centimeters, and inches.

• H 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 CH 1- CH 1 O speakers.

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

Channel interface

Channel high-low-pass crossover setting with high-low-pass independent filtering.





Adjustable: Filter type, frequency and Q value (slope or slope).

• I. Output channel selection:

Ten channels are available.

• J. Output channel volume setting:

You can adjust the volume by sliding left and right. The volume range is 0-60. Click the speaker button to mute. Configurable output channel type, forward and reverse switching.

• K. Channel divider selection:

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

Frequency Range: 20HZ-20KHz.

Slope selection:

6dB/Oct, 12dB/Oct, 18dB/Oct, 24dB/Oct, 30dB/Oct, 36dB/Oct, 42dB/Oct, 48dB/Oct

and OFF can be selected.

• L. Joint tuning and channel type settings: Click [Reset] to reset the output channel type so that the output type can be customized.

Click [Stereo] to switch between stereo mode and bridge mode.

Click[link] the joint debugging window will pop up, and select the joint debugging method.

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.

- M. EQ display:
 Edit the display area.
- N. 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 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. 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.

0. 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.

Click [P. EQ Mode], click [OK] to switch to Graphic Equalization, click [G.EQ Mode], click [OK] to switch to Parametric Equalization.

Mixing interface

Five sound source modes can be selected. It includes the mixing selection and adjustment of 8 groups of high-level, Bluetooth left and right channels, optical fiber left and right channels, and aux left and right channels. The adjustment range is 0-100.



CONNECT WITH US ONLINE TO EXPLORE NAKAMICHI'S COMPLETE RANGE, INSTRUCTIONS & SOFTWARE DOWNLOADS AND WARRANTY REGISTRATION.

WWW.NAKAMICHICARAUDIO.COM

- nakamichi.global
- nakamichi.caraudio
- Nakamichi Corp, Japan

Documents / Resources



NDSR NDSR260A-II Digital Signal Processor [pdf] User Manual NDSR260A-II Digital Signal Processor, NDSR260A-II, Digital Signal Processor, Signal Processor, Processor

References

- User Manual
- Nakamichi
- ▶ Digital Signal Processor, Nakamichi, NDSR, NDSR260A-II, NDSR260A-II Digital Signal Processor, Processor, Signal Processor

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