



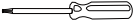
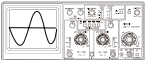
# **NDSE300A**

## **User Manual**

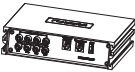


# **DIGITAL SOUND PROCESSOR**

## TOOLS THAT MAY BE NEEDED(DEPENDING ON THE VEHICLE)

|                                                                                                          |                                                                                                     |                                                                                                        |                                                                                                       |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Panel Removal Tool<br>   | Socket<br>         | Electric drill<br>    | Torx screwdriver<br> |
| Phillips screwdriver<br> | socket wrench<br>  | Wrench<br>            | Cord cutters<br>     |
| Crimping Tool<br>        | Wire strippers<br> | Spectrum analyzer<br> | Oscilloscope<br>     |

## PARTS LIST

|                                                                                                          |                                                                                                     |                                                                                                      |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| USB 2.0Wire x1<br>       | Amplifier x1<br>   | Manual x1<br>       |
| Mounting bracket x2<br> | 3x8mm screw x4<br> | 4x20mm screw x2<br> |
| Fuse 25A x1<br>       | 16P cable x1<br> |                                                                                                      |

# PRECAUTIONS

|                                                                                                |                                                  |
|------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <br>PROHIBITED | Indicates a prohibited action (not allowed)      |
| <br>PROHIBITED | Indicates that disassembly is prohibited         |
| <br>MANDATORY  | Indicates a mandatory action (must be performed) |
|                | Indicates that your attention should be paid.    |

## WARNING

### When a problem occurs, please stop using it immediately

Failure to do so may result in personal injury or damage to the product. Please return this product to an authorized Nakamichi dealer or the nearest Nakamichi service center for repair

### This product is only suitable for vehicles with 12V negative grounded

Failure to do so may cause accidents such as fire.

### Ask professionals for wiring and installation

Wiring and installation of this product require specialized skills and experience. For the sake of safety, please contact the dealer of the product you purchased for installation

### Do not disassemble or modify

Failure to do so may result in an accident, fire or electric shock

### Small objects such as bolts or screws should be kept out of the reach of children

Swallowing small objects may cause serious injury. If swallowed, seek medical attention immediately.

### Do not use any features that distract you while driving

Any operation of machine functions that interfere with attention must be done only after the vehicle has come to a complete stop. Before using these functions, be sure to park the vehicle in a safe area first. Otherwise, accidents may result.

### THE VOLUME MUST BE KEPT AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISE WHILE DRIVING

Failure to hear emergency vehicle sirens and road warning signals (train crossings, etc.) is very dangerous and may lead to accidents. In addition, excessive volume may cause hearing damage.

## PROHIBITED

### Product cleaning

Please clean this product regularly with a dry soft cloth. If the dirt is difficult to remove, just dampen a soft cloth with water. Any other solvent may dissolve.

### Temperature

Before turning on the unit, please make sure that the temperature in the car is between +70°C and -20°C.

### Maintenance

If you encounter a problem do not repair it yourself, please return this product to an authorized Nakamichi dealer or the nearest Nakamichi service center for repair.

### System matching When using NAKAMICHI DSP to distribute signals to speakers by active frequency division, please ensure that the treble frequency division point is above 1500Hz, so as not to damage the tweeter.

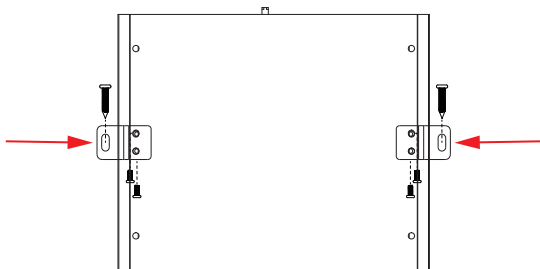
### Installation location

This machine cannot be installed in any of the following places:

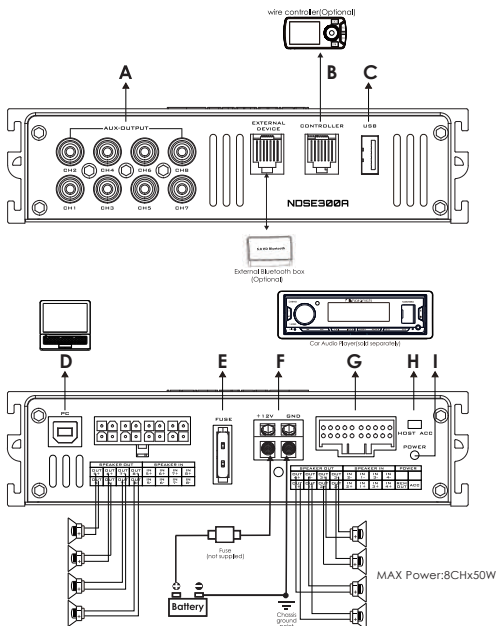
- Near direct sunlight and heat sources
- Places with high humidity and near water sources
- Dusty places
- places with severe vibration

# MACHINE INTERFACE DIAGRAM

## INSTALLATION INSTRUCTION AS BELOW



The Mounting Brackets Is Attached To The Bottom Of The Fuselage



# MACHINE INTERFACE AND FUNCTION INTRODUCTION

---

## A. AUX low level output port

Low-level RCA output, link up to 8-channel low-level signal output.

## B. Controller port

Data call and total volume can be adjusted through the wire controller.

## C. USB port

Insert the U disk, and play the songs in the U disk under the audio source of the player.

## D. PC port

link to computer debugging software No need to download driver installation, the sound software linked to the computer will be installed automatically

## E. FUSE 25A\*1

## F. +12V=power supply

\*GND(-)=Ground When using HI-INPUT, the amplifier can detect the DC offset of the high-level input signal, so it will automatically turn on or turn off the amplifier. When the amplifier is turned on, the REM terminal will output +12V DC to control the opening of other devices on or off. When using a low level input, the amplifier REM-IN should be connected to the REN-OUT of the signal source unit. The source unit will control the amplifier to turn on or off automatically.

## G. HIGH LEVEL INPUT AND OUTPUT PORT

\* "+" is positive or positive, "-" is negative or inverted (ground).

\* Only the special wire for the original car is selected, or the user can define the external wiring material by himself.

\* Before connecting the power supply, you confirm that the power supply meets the power requirements of device and connect in strict accordance with the device instructions. Failure to do so may result in damage to the equipment and may cause accidents such as fire, electric shock, etc.

H. 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 input signal.

## I. Power indicator

# SOFTWARE INTRODUCTION

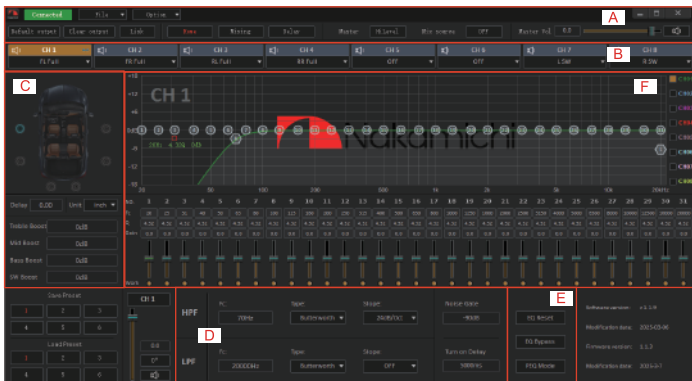
## PC Software Operation Introduction



### TUNING SOFTWARE DOWNLOAD METHOD

Method 1: Web page address: <http://nakamichicaraudio.com/pages/downloads> Nakamichi-E

Method 2: Scan the QR code on the left to get the download address of the tuning software. Nakamichi-E

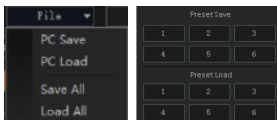


## A. MENU EDITING AREA

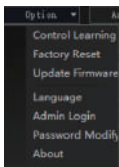


**Main functions: file, options, mute, Default output, clear output, connect, homepage, Mixing , delay, and input source selection operations.**

\* Click the "File" pop-up window and choose to load the scene on the computer, save it as a scene on the computer, load the scene of the whole machine or save the scene of the whole machine.

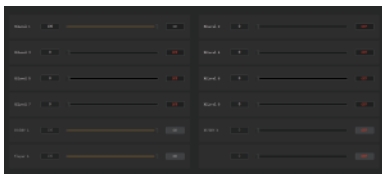


\*click"Option"pop-up window select Steering Wheel Control Learning, Factory Reset, Update Firmware, Language, Admin Login, Password Modify and About.



# SOFTWARE INTRODUCTION

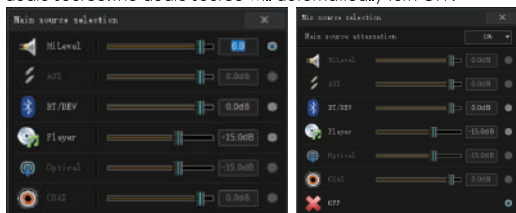
\* Click "Mixing" for mixing interface, the interface may enter the corresponding mixing input source by switching, high level interface is as follows.



\*Press the main audio source pop-up list to select the input source.  
BT/DEV, high level, player.

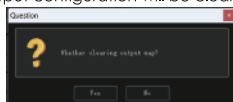
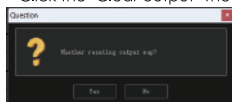
\*Press the mixing source pop-up list to select the mixing source.  
BT/DEV, high level assistance and shutdown.

\*Note: The mixed audio source cannot be the same as the main audio source. If themain audio source is BT/DEV, the BT/DEV of the mixed audio source cannot be selected When the audio source for mixing is X (X can be any audio source), X is also selected for themain audio source.The audio source will automatically turn OFF.



\*Click the "Default output",The output configuration will be reset.

\*Click the "Clear output" The output configuration will be cleared.



\*Slide left and right to adjust the master volume.



Click "Not connect": You can use the PC to link to the host, and the connection status is divided into not connected, connect and connected,There will be different colors to distinguish.



# SOFTWARE INTRODUCTION

## B. CHANNEL SELECTION AREA



### MAIN FUNCTION: CONFIGURE THE TYPE OF OUTPUT CHANNEL

\* If there is a conflict in the output channel, it will be grayed out. If the channel is empty, it will be muted.

## C. CHANNEL DELAY, VOLUME, PHASE EDITING AREA

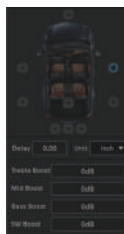
\* Volume adjustment: Push the fader left and right to adjust the volume of the sound, or input a value or scroll the mouse wheel in the volume input box to adjust the volume. Click the horn button to switch to mute.

\* Positive and negative phase adjustment: Click [Normal phase] or [Reverse phase] to switch between normal phase and reverse phase.

\* Delay range: 25 milliseconds, 0 to 850 centimeters, 0 to 334.65 inches;

\* Delay unit: Click the drop-down list to select milliseconds, centimeters and inches.

\* Phase angle: It needs to be turned on according to the channel type, and it can only be adjusted when the channel type is high frequency and ultra low.



## D. CHANNEL DIVIDER EDITING AREA

### Main function: channel high and low pass frequency division setting

Adjustable: filter type, frequency point and Q value (slope or sharp slope).

\*Frequency adjustable range: 20–20000, high pass frequency slow pass frequency

\* Type: Butterworth, Bessel, Link-Ril

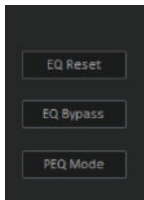
\*Slope: 6, 12, 18, 24, 30, 36, 42, 48 and OFF, the unit is dB/Oct.



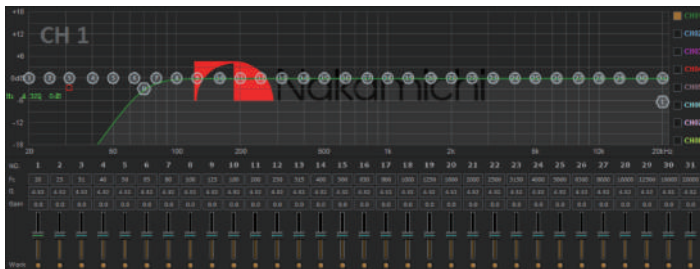
# SOFTWARE INTRODUCTION

## E. EQUALIZER EDITING AREA

- \* "Reset EQ" button: It is used to restore the parameters of the 31-band equalizer to the original direct mode (the frequency, Q value and gain of the equalizer are restored to the initial values).
- \* "Parametric EQ" button: used to adjust the frequency and Q value; the corresponding graphic equalizer means that the frequency and Q value cannot be adjusted.
- \* "Straight through equalization" button: restore the equalization at 0.0 position of the gain of the 31 off EQ points; the corresponding straight through equalization is a straight through equalization as long as there is a position other than 0.0.



## F. CHANNEL EQ EDITING AREA



Main function configuration: balanced design of current output channel, 31 frequency bands can be adjusted: frequency, Q value (response bandwidth) and gain (increase or decrease the frequency response range near the frequency point).

# SOFTWARE INTRODUCTION

## HOW TO DOWNLOAD THE APP:

1. Apple mobile phone users need to search for the name "Nakamichi-E" in the Applemarket.

2. Android mobile phone users

Method 1: Log in to the web page <http://www.nakamichicaraudio.com>, Downloads and download "Nakamichi-E"

Method 2: Search the name "Nakamichi-E" on Google Play and download



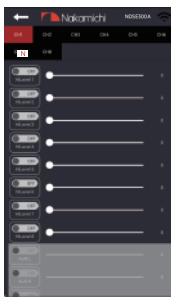
HOME



DELAY



AISLE



REMIX

## 1. Main interface

You can share sound effects, save audio sound effects, play local sound effects, check the model and version number of the machine and exit the software operation; encrypt data; store and recall 6 groups of preset scenes.

A. Connection status: Black means not connected, red means connected.

B. Scene preset: There are 1~6 presets.

C. Audio source options are: Bluetooth, optical fiber, coaxial, USB options

D. Volume adjustment:  
press and hold the volume scale clockwise or counterclockwise to adjust the volume. The main volume range is -60~6, The subwoofer

range: -6~6, The medium, high and low volume range -6dB ~ +6dB . Tap the speaker button to mute the master volume.

E. Menu:

You can perform operations such as output channel adjustment, Equalizer adjustment, mixing mode adjustment, system settings and music playback.

### Channel Interface

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

F. Delay unit switching: Switch between milliseconds, centimeters, and inches.

G. Output channel selection: 6 channels are available.

# SOFTWARE INTRODUCTION

H. Channel type selection: front audio, rear audio, center audio, subwoofer audio.

I. Channel volume: The volume can be adjusted by sliding left and right, the volume range: -60~6.

J. Delay setting: Slide the dots left and right to set the delay value.  
Delay range: 25 milliseconds, 0 to 850 centimeters, 0 to 334.65 inches;

K. Mute: Click the speaker button to mute.

L. Channel phase: Forward and reverse switching.

M. Channel joint debugging settings: Click the joint debugging button and the joint debugging window will pop up to select the joint debugging method.

## 3. Mixer Interface

N. Mixing and mixing can be adjusted by selecting high level, Bluetooth/device, or USB, and the corresponding page varies depending on the main sound source.

## 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.

O. EQ display: Edit the display area.

P. Reset equalization, parametric equalization, and pass-through equalization settings: Click [Reset] to restore the parameters of the 31 -short equalizer to the original factory pass-through mode (equalizer frequency, Q value and gain return to their initial values).  
When there is channel adjustment, click [PEQ] to switch between [PEQ] and [GEQ] modes.

Q. HPF and LPF adjustment: Frequency range: 20Hz~20.0kHz.  
Channel type: Choose from Link-R, Butter-W and Bessel.  
Slope selection: 6dB/Oct, 12dB/Oct, 18dB/Oct, 24dB/Oct, 30dB/Oct, 36dB/Oct, 42dB/Oct, 48dB/Oct and OFF can be selected.



EQ

# SOFTWARE INTRODUCTION

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

The frequency setting of the output EQ: a total of 31 EQ, slide the screen left and right to select the EQ, you can drag the slide bar up and down to adjust the frequency. The rightmost direction button, press up and down to select the desired frequency, gain and Q value; press left and right to adjust the corresponding adjustment range, frequency range: 20Hz~20kHz, gain range: -12dB~+12dB, Q value range: 0.3~50.

## 5. System Interface

Can be restored to factory settings, noise gate settings, mode settings, check the machine model and version for easy operation.

- S. Noise gate setting: -60~120  
T. Mode setting: preset PR1~PR6 mode change and save.

- U. Restore factory settings: Click [Restore factory settings], click [OK], all values will be restored to the initial values.

## 6. Music Interface

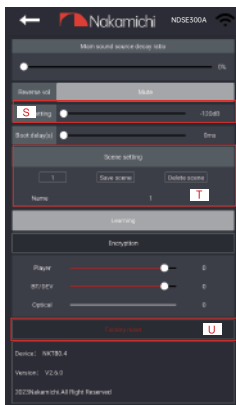
When connected to USB, Bluetooth /device, you can choose to play music inside, pause, previous track, next track, loop, play randomly, or play once.

- V. Select playback source: BT/DEV , high level, USB.

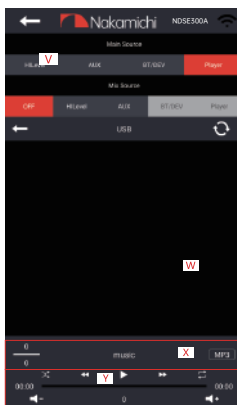
- W. Playlist (sorted alphabetically)

- X. Song name and folder name of your choice.

- Y. Music adjustment: click [▶] [⏸] to play or pause; click [◀] to select the previous song; click [▶] to select the next song; click [🔍] [🔍] list loop or single loop mode; click [🔍] random loop mode.



SYSTEM



PLAYER

# PRODUCT TECHNICAL DATA

## PRODUCT PARAMETERS

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Harmonic distortion       | ≤0.05                                                |
| Input resistance          | High level:240Ω                                      |
| Signal input range        | RCA: 5Vpp; High level:26Vpp                          |
| Signal output range       | RCA:5.6Vpp; MAX Power:8CH×50W                        |
| Use ambient temperature   | -20~70°C                                             |
| Power supply              | DC9V~18V                                             |
| REM Input                 | High level signal input:FL+/FL- OR ACC Control cable |
| REM Output                | +12V Startup Voltage output                          |
| Standby power consumption | ≤0.1W                                                |
| Signal-to-noise ratio     | ≥98dB                                                |
| Net weight                | Approx 0.9kg                                         |
| Product Size(L×W×H)       | 173x142x43mm                                         |

All specifications are subject to change without notice.

## FUNCTION PARAMETER

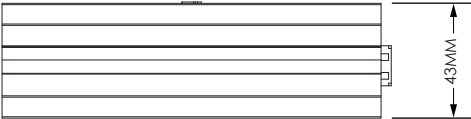
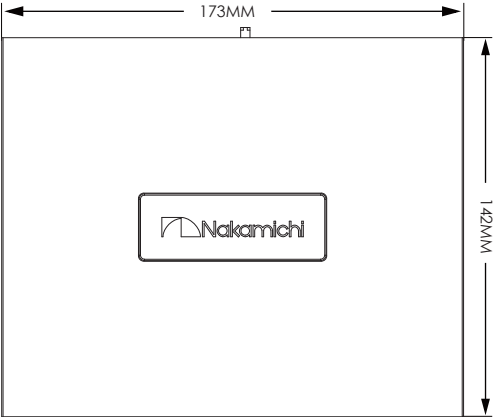
|                          |                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input signal type        | 8-channel high level, support built-in Bluetooth, USB music playback                                                                                                                                    |
| Output signal type       | 8-channel low level, 8-channel 50W Max power                                                                                                                                                            |
| Output gain              | Gain range: mute, -60dB~6dB                                                                                                                                                                             |
| Output signal equalizer  | 31-band EQ for every channel:<br>1. Frequency range: 20Hz~20KHz; resolution: 1Hz<br>2. Q value (slope and slope): 0.3~50<br>3. Gain: -12.0dB+12.0dB, resolution: 0.1dB                                  |
| Output Signal Divider    | Equipped with high and low pass filters.<br>1. Professional filter type: Butter-w, Bessel, Link-Ril<br>2. Filter Crossover Point: 20Hz~20kHz, Resolution 1Hz<br>3. Filter Slope Setup: 6dB/Oct~48dB/Oct |
| Output Phase and Latency | Adjust phase and time alignment for every output channel:<br>In Phase or Out Phase(0~180);<br>Time Alignment:25 milliseconds, 0 to 850 centimeters<br>, 0 to 334.65 inches;                             |
| Scene operation          | Save 6 presets into the device                                                                                                                                                                          |

## AUDIO FORMATS SUPPORTED BY USB PLAYBACK

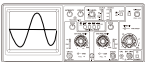
| Format | Bit rate                 | Sampling Rate | Remark                            |
|--------|--------------------------|---------------|-----------------------------------|
| MP3    | 8kbps-448kbps            | 8KHz-48KHz    |                                   |
| WMA    | 5kbps-384kbps            | 8KHz-48KHz    | not support WMA Lossless, WMA PRO |
| FLAC   | LO-L8(1000kbps-1200kbps) | 8KHz-48KHz    |                                   |
| WAV    | 32kbps-384kbps           | 8KHz-48KHz    |                                   |

# PRODUCT TECHNICAL DATA

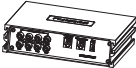
Dimensions(Unit: mm)



## 可能需要的工具(视车辆而定)

| 面板拆卸工具                                                                           | 插座                                                                                | 電鑽                                                                                | 梅花螺絲刀                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |
| 十字螺絲刀                                                                            | 套筒扳手                                                                              | 扳手                                                                                | 剪線鉗                                                                               |
|  |  |  |  |
| 壓線鉗                                                                              | 保險鉗                                                                               | 頻譜分析器                                                                             | 示波器                                                                               |
|  |  |  |  |

## 配件清單

| USB 2.0線 x1                                                                         | 主機 x1                                                                               | 說明書 x1                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|     |    |   |
| 安裝支架 x2                                                                             | 3x8mm 自攻螺絲 x4                                                                       | 4x20mm 自攻螺絲 x2                                                                     |
|    |   |  |
| 保險絲 25A x 2                                                                         | 16P 線材 x 1                                                                          |                                                                                    |
|  |  |                                                                                    |

## 注意事項

|                                                                                  |                   |
|----------------------------------------------------------------------------------|-------------------|
|  | 表示禁止的動作(不得進行)。    |
|  | 表示禁止拆卸。           |
|  | 表示具有強制性的操作(必須執行)。 |
|  | 表示應引起您高度注意。       |

### 警告

#### 出現問題時,請立即停止使用

否則可能會導致人身傷害或本產品損壞。  
請將本產品送回到授權的Nakamichi經銷商或附近的Nakamichi服務中心修理。

#### 本產品只適用於12V負極接地的汽車

否則可能會引起火災等事故。

#### 請專業人員進行配線和安裝

本產品的配線和安裝需要專業技術和經驗。為了安全起見,請聯繫您所購買產品的經銷商進行安裝。

#### 請勿拆卸或改裝

否則可能會導致意外事故、火災或觸電。

#### 螺栓或螺絲等小物體應放在兒童不易觸及的地方

吞下小物體可能會導致嚴重傷害。一旦誤吞,請立即就醫。

#### 請勿使用會使您在駕車時分心的任何功能

任何影響注意力的機器功能的操作都要等完全停住汽車之後才做。要使用這些功能時,一定先把車輛停放在安全地帶。否則,將可能導致意外事故。

#### 駕駛中必須將音量保持在還能聽到車外噪聲的水平

聽不清緊急車輛警報聲和道路警告信號(火車交叉口等)是非常危險的,並可能會導致事故發生。另外,音量過大還可能會導致聽力損傷。

### 注意

#### 產品清潔

請使用乾的軟布定期清潔本產品。若污物較難清除,請僅用水將軟布浸濕。其它任何溶劑都可能溶解。

#### 溫度

開啓本機之前,請確保汽車中溫度在+70°C和-20°C之間。

#### 維修

如果您遇到問題請勿自行修理,請將本產品送回到Nakamichi授權經銷商或附近的Nakamichi服務中心修理。

#### 系統匹配

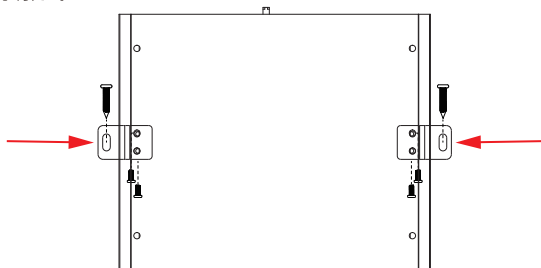
當使用NAKAMICHI DSP採用主動分頻方式為揚聲器分配信號時,請保證高音的分頻點在1500Hz以上,以免損壞高音揚聲器。

#### 安裝位置

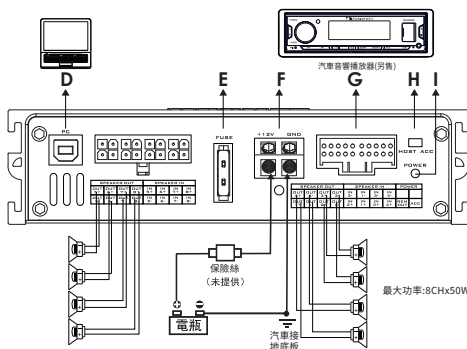
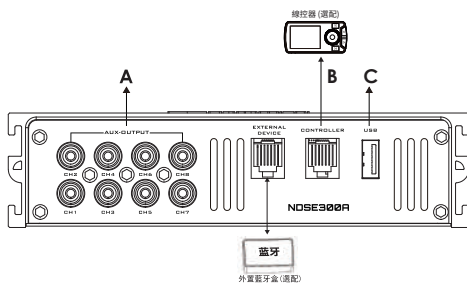
本机不可安裝于下列任何場所:

- 陽光直射和熱源附近
- 溫度很高的地方和水源附近
- 多塵場所
- 劇烈振動的場所

安裝說明如下



安裝支架連接到機身底部



# 機器接口及功能介紹

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## A.AUX低電平輸出口

低電平RCA輸出，可連接8路低電平信號輸出。

## B.控制器口

可通過線控器調節數據通話及總音量。

## C.USB口

插入U盤，在播放器的音源下播放U盤裏的歌曲。

## D.PC口

連接電腦調試軟件，無需下載驅動安裝，連接電腦的音響軟件會自動安裝

## E. FUSE 25A\*1

F.\*+12V=電源

\*GND(-)=接地

使用Hi-INPUT時，功放可以檢測高電平輸入信號的直流偏移，從而自動打開或關閉功放，

當功放打開時，REM端會輸出+12v直流電，控制其他設備的開啓或關閉。使用低電平輸入時，

功放REM-IN應接在信號源REN-OUT上，由信號源自動控制功放打開或關閉。

G. 高電平輸入輸出口\* “+” 爲正極或正極，“-” 爲負極或反相（接地）。

\*只選用原車專用線材，也可由用戶自行定義外部配線材質。

\* 連接電源前，請確認電源符合設備的功率要求，並嚴格按照設備說明進行連接，

否則可能導致設備損壞，並可能引起火災、觸電等事故。

## H. 機器啓動方式開關

開關撥到“ACC”端時，由ACC啓動機器，撥到“HOST”端時，由高電平輸入信號啓動機器。

## I. 電源指示燈，保護指示燈

# 軟件介紹

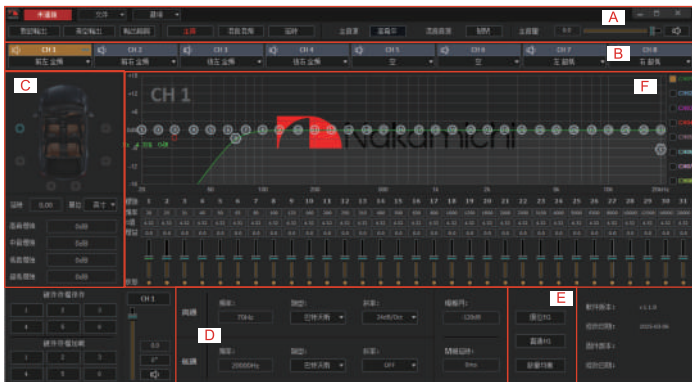
## PC軟件使用介紹

### 調音軟體下載方式



方法1: 網頁地址:<http://nakamichicaraudio.com/>軟件下載, 下載 Nakamichi-E

方法2: 掃有左邊二維碼獲取調音軟體下載位址, 下載 Nakamichi-E



### A、菜單編輯區

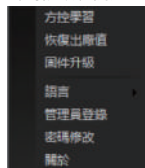


主要功能: 文件、選項、靜音、默認輸出、清空輸出、輸出聯調、主頁、混音混頻、延遲和輸入源選擇操作。

\* 點擊“文件”彈出視窗, 選擇要載入的計算機場景保存為計算機場景, 載入整機場景或保存整機場景。



\* 按兩下“選項”彈出視窗選擇方向盤控制學習, 出廠重置, 更新固件, 語言, 管理員登錄, 密碼修改和關於。



## 軟件介紹

\*點擊“混音混頻”進入混音介面，該介面可通過切換進入對應的混音輸入源，介面如下：



\*按下主音源彈出清單以選擇輸入源。藍牙/設備、高電平、播放器。

\*按下混音源彈出清單以選擇混音源。藍牙/設備，高電平輔助和關閉。

\*附注:混音混頻不能與主音源相同。如果主音源為 藍牙/設備，則無法選擇混音混頻的藍牙/設備用於混音的音源為X(X可以是任何音源)，X也被選擇為主音源，音源將自動關閉。

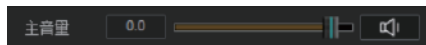


\*點擊“預設輸出” 將被清除。輸出配置將被重置。

\*點擊“清除輸出” 輸出配置



\*左右滑動以調整主音量:



\*點擊“未連接”:可以使用PC與主機進行連接，連接狀態分為未連接、連接和已聯機會有不同的顏色來區分。



### B、頻道選擇區域



**主要功能:配置輸出通道類型**

\*如果輸出通道有衝突,則會顯示為灰色。如果頻道是空的,它將被靜音。

### C.通道延遲、音量、相位編輯區

\*音量調節:左右推推子可調節聲音的音量,或在音量輸入框中

輸入數值或滾動滑鼠滾輪可調節音量。點擊喇叭按鈕切換到靜音。

\*正負相位調整:點擊“正相”或“反相”,在正相和反相之間進行切換。

\*延時範圍:25毫秒, 0到850釐米, 0到334.65英寸:

延遲單位: 點擊下拉清單選擇毫秒、釐米和英寸。

\*相位角：需要根據頻道類型開啟，只有在頻道類型為高頻和超低時才能調節。



#### D.通道分頻器編輯區

主要功能:通道高低通分頻設置

可調：濾波器類型、頻點和Q值（斜率或陡斜率）

\*頻率可調節範圍:20-20000, 高通頻率 $\leq$ 低通頻率

\*類型：巴特沃斯，貝塞爾，寧克-銳

\*斜率:6、12、18、24、30、36、42、48和關,單位為dB/ Oct。



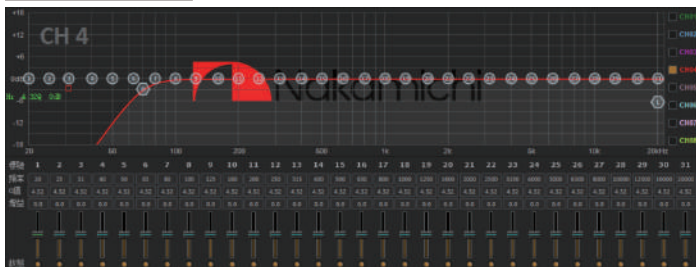
## 軟件介紹

### E.均衡器編輯區

- \*“複位EQ”按鈕:用於將31頻段均衡器的參數恢復到原來的模式(均衡器的頻率、Q值和增益恢復到初始值)。
- \*“參量均衡”按鈕:用於調整頻率和Q值,對應圖形均衡器表示頻率和Q值不可調整。
- \*“直通EQ”按鈕:恢復31個關斷均衡點的增益在0.0位置的均衡,只要有非0.0的位置對應直通均衡為直通均衡。



### F.通道均衡器編輯區



- \*主要功能配置:當前輸出通道的平衡設計,可選擇31個頻段:頻率、Q值(響應帶寬)和增益(增加或減小頻率點附近的頻率響應範圍)。

# 軟件介紹

## 下載APP方法:

一.蘋果手機用戶需在蘋果市場搜尋名稱“Nakamichi-E”

二.安卓手機用戶

方法1:登入網頁<http://www.nakamichicaraudio.com>,下載,下載“Nakamichi-E”

方法2:在Google Play搜尋名稱“Nakamichi-E”，並下載



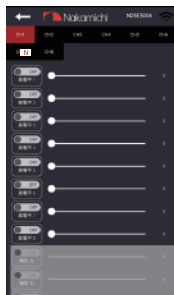
主界面



延時



通道



混音

### 1.主界面

可以共享聲音效果,保存音頻聲音效果,打開本地聲音效果,查看機器的型號和版本號並退出軟件操作;加密數據;存儲和調用6組預設場景。

A.連接狀態:黑色表示未連接,紅色表示已連接。

B.場景預置:有1~6個預置。

C.音頻源選擇:有藍牙/設備、高電平、USB選項。

### D.音量調整:

順時針或逆時針按住音量尺調節音量。主音量範圍為-60~6,低音炮範圍為-6~6,

中,高,低音音量範圍為-6dB~+6dB。點擊揚聲器按鈕以使主音量靜音。

### E.菜單:

您可以執行如輸出通道調整,均衡器調整,混合模式調整,系統設置和音樂播放之類的操作。

### 2.通道窗口

通道選擇,音量靜音,正相和反相,高和低通頻率設置以及聯合調諧操作。

F.延遲單位切換:在毫秒,厘米和英寸之間切換。

G.輸出聲道選擇:6個聲道可用。

## 軟件介紹

H.通道類型選擇:前置音頻,後置音頻,中置音頻,超低音頻,环绕音頻。

I.通道音量:左右滑動可調節音量,音量範圍:-60~6。

J.延遲設置:左右滑動點以設置延遲值。  
延時範圍:25毫秒, 0到850釐米,  
0到334.65英寸;

K.靜音:單擊揚聲器按鈕將其靜音。

L.通道相位:正相和反相切換。

M.通道聯合調試設置:單擊聯合調試按鈕,將彈出聯合調試窗口以選擇聯合調試方法。

### 3.混音界面

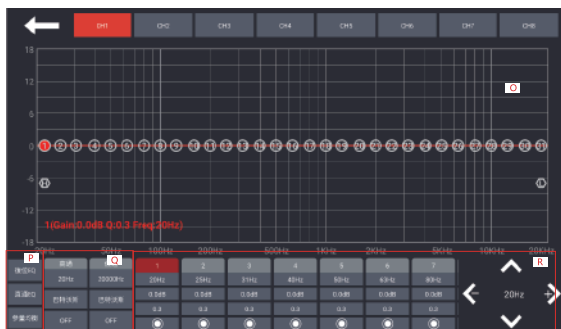
N.混音混頻可選擇高電平、藍牙/設備、USB進行調節,根據主音源的不同,對應的頁面也不相同。

4.EQ窗口調整輸出通道的EQ曲線(增益, Q值和頻率);重置均衡,直通均衡或參數均衡操作設置。

O.EQ顯示:編輯顯示區域

P.重置均衡,參數均衡和直通均衡設置:單擊“復位”將31段均衡器的參數恢復為原始出廠直通模式(均衡器頻率, Q值和增益恢復為其初始值)。進行通道調整時,單擊“參量均衡”在“參量均衡”和“图示均衡”模式之間切換。

Q.HPF和LPF調整頻率範圍:20Hz~20kHz  
頻道類型:從巴特沃斯(Butter-w),  
貝塞爾(Bessel),寧克(Link-Ril)中選擇。  
斜率選擇:可以選擇6dB/Oct, 12dB/Oct, 18dB/Oct, 24dB/Oct, 30dB/Oct, 36dB/Oct, 42dB/Oct, 48dB/Oct和OFF。



EQ

# 軟件介紹

R.輸出均衡器頻率,增益和Q值設置:輸出均衡器的頻率設置:總共31個均衡器,左右滑動屏幕以選擇均衡器,您可以上下拖動滑動條來調整頻率。在最右邊的方向按鈕上,按下和向下選擇所需的頻率,增益和Q值;按左右調整相應的調整範圍,頻率範圍:20Hz~20KHz,增益範圍:-12dB~+12dB,Q值範圍:0.3~50。

## 5.系統窗口

可以恢復到出廠設置,噪門設置,模式設置,檢查機器型號和版本以方便操作。

S.噪聲門設置:-60~-120

T.模式設置:預設PR1~PR6模式切換和保存。

U.恢復出廠設置:單擊“恢復出廠設置”,單擊“確定”,所有值將恢復為初始值。

## 6.播放窗口

連接到USB、藍牙/設備時,您可以選擇裏面的音樂播放、暫停、上壹曲、下壹曲、循環、隨機播放或單次播放。

V.選擇播放源:藍牙/設備、高電平、USB。

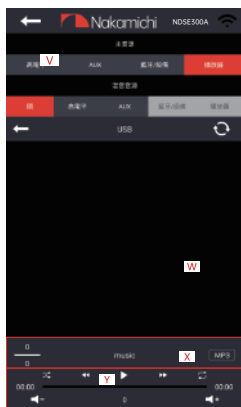
W.播放列表(按字母順序排列)。

X.您選擇的歌曲名稱和文件夾名稱。

Y.音樂調整:單擊[▶][⏸]播放或暫停;單擊[◀]選擇上壹首歌曲;單擊[▶]選擇下壹首歌曲;單擊[🔄][🔀]列表循環或單循環模式;單擊[🔀]隨機循環模式。



系統



播放器

# 產品技術數據

## 產品參數

|             |                            |
|-------------|----------------------------|
| 諧波失真        | ≤0.05                      |
| 輸入阻抗        | 高電平:240Ω                   |
| 信號輸入範圍      | RCA:5Vpp; 高電平:26Vpp        |
| 信號輸出範圍      | RCA:5.6Vpp; 功放最大功率 8CH×50W |
| 使用環境溫度      | -20~70°C                   |
| 電源          | DC9V~18V                   |
| REM 輸入      | 高電平信號輸入:FL+/FL-或者ACC控制線    |
| REM 輸出      | +12V啟動電源輸出                 |
| 待機功耗        | ≤0.1W                      |
| 信噪比         | ≥98dB                      |
| 淨重          | 約 0.9kg                    |
| 產品尺寸(LxWxH) | 173x142x43mm               |

所有規格如有更改恕不另行通知。

## 功能參數

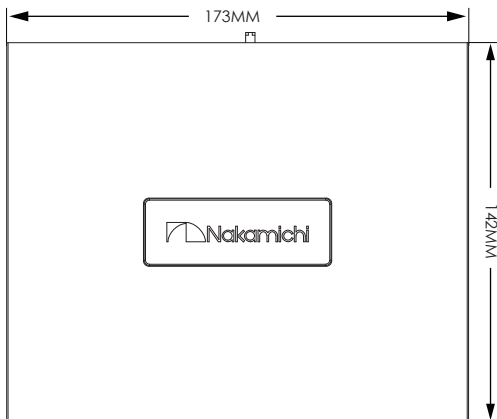
|         |                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------|
| 輸入信號類型  | 8通道高電平,支持內置藍牙,USB音樂播放                                                                                                          |
| 輸出信號類型  | 8聲道低電平, 8通道50W最大功率                                                                                                             |
| 輸出增益    | 增益範圍:靜音, -60dB~6dB                                                                                                             |
| 輸出信號均衡器 | 31段均衡器引擎:<br>1.頻率範圍:20Hz~20KHz;解析度:1Hz<br>2.Q值(斜坡和坡度):0.3-50<br>3.增益:-12.0dB+12.0dB,解析度:0.1dB                                  |
| 輸出信號分頻器 | 配有高通和低通濾波器。<br>1.專業濾波器類型:巴特沃斯(Butter-w),貝塞爾(Bessel),寧克-銳(Link-Ril)<br>2.濾波器分頻點:20Hz~20kHz,分辨率1Hz<br>3.濾波器斜率設置:6dB/Oct~48dB/Oct |
| 輸出相位和延遲 | 調整每個輸出通道的相位和時間對齊方式:正相或反相(0°-180°);<br>延時範圍:25毫秒, 0到850釐米, 0到334.65英寸;                                                          |
| 場景操作    | 機器可保存6種預設音效                                                                                                                    |

## USB播放支持的音頻格式

| 格式   | 比特率                      | 採樣率        | 備注                      |
|------|--------------------------|------------|-------------------------|
| MP3  | 8kbps-448kbps            | 8KHz-48KHz |                         |
| WMA  | 5kbps-384kbps            | 8KHz-48KHz | 不支持WMA Lossless,WMA PRO |
| FLAC | LO-L8(1000kbps-1200kbps) | 8KHz-48KHz |                         |
| WAV  | 32kbps-384kbps           | 8KHz-48KHz |                         |

## 產品技術數據

產品尺寸：





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

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