



CS1212
User Manual



DIGITAL SIGNAL PROCESSOR

INTRODUCTION AND TROUBLESHOOTING

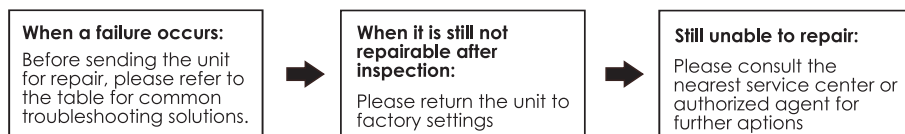
Thank you for your purchase and welcome to the world of Rebec! Please keep your original proof of purchase or invoice in a safe place in case of any warranty claims. Do also mail or register your warranty With the official Nakamichi service centers and/or agents to ensure that you are provided with the 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 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	<ul style="list-style-type: none"> • Check the power connection and make sure it's secure. • Check the ACC connection and make sure it's secure.
2	No Sound	<ul style="list-style-type: none"> • Double check if the unit is in MUTE mode. • Check if you have choose the correct input channel.
3	Unable to connect through USB	<ul style="list-style-type: none"> • 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

CS1212	1pc
User Manual	
Mechanical fat head screws (PM3x6mm)	8Pc
Mounting brackets	4Pcs
24P hgh level input signal line(0.2m)	1Pc
24P Speaker cable(0.2m)	1Pc
10P Speaker Power cable 0.2m	1Pc
30A FUSE	2Pcs

2.Amplifier Index

Note: The following indicators and diagrams, using 4Ω load, all use APXS15 audio analyzer, indoor ambient temperature is 25°C, and the voltage across the dedicated line power supply is 14.4V.

Parameter	Test condition	Min	Typical	Max	Unit
High input impedance			51		Ω
Low input impedance			15K		Ω
High input voltage	It is formulated according to the pre-amplifier , and when the maximum pre-stage effective value, the power amplifier outputs the maximum power		9.2		Vrms
Low input voltage	It is formulated according to the pre-amplifier , and when the maximum pre-stage effective value, the power amplifier outputs the maximum power		2.5		Vrms
Continuous output power	4Ω load, 1K sine wave, full power continuous load test, greater than 20 minutes, THD ≤ 1%, A-weighting		60±10 10±2		W
CH1-CH12 CH1-CH12, Output voltage, maximum	When the corresponding amplifier channel outputs THD≤1%, the RAC outputs THD≤0.00%.		2.5		Vrms
Frequency	0- 3dB	20		20K	Hz

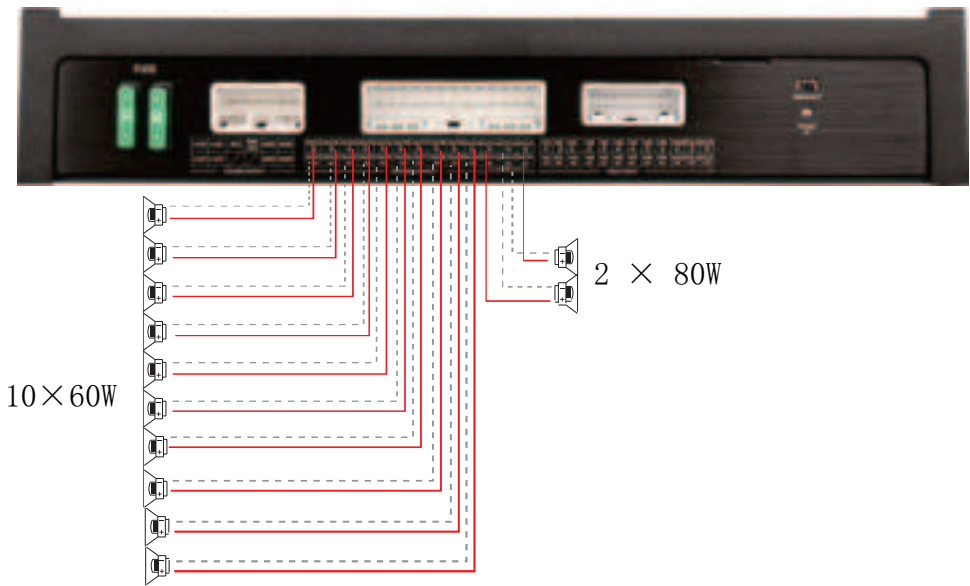
THD+N	High level output	40 load, -50W output	0.8	%
	CH1-CH12	1Vrms output, AI X515 input impedance 200KΩ	0.05	%
Noise Level	High level output	40 load, A weighting	73	dB
	CH1-CH12	A-weighting, AI X515 input impedance 200KΩ	80	
SIN	High level output	40 load, -50W output,1K sine wave,A weighting	85	dB
	CH1-CH12	1Vrms output, AI X515 input impedance/200KΩ,A-weighting	95	
Dynamic Range	High level output	40 load, 1K sine wave/ equal level range/20dB, A-weighting	90	dB
AI 517	CH1-CH12	1Vrms output- Input Impedance 200KΩ,A weighting	90	
Crosstalk	High level output	40 load, -50W output,1K sine wave,A-weighting	85	dB
	CH1 & CH12	Absolute value	85	
SMP11	High level output	40 load, full power output power output- Frequency 1: Frequency sweep 40~180KHz, Frequency 2: 201KHz, Amplitude ratio 4: 1	0.3	%
	CH1-CH12	1Vrms output- AI X515 Input Impedance 200KΩ,A weighting	0.05	

3.Interface definition:

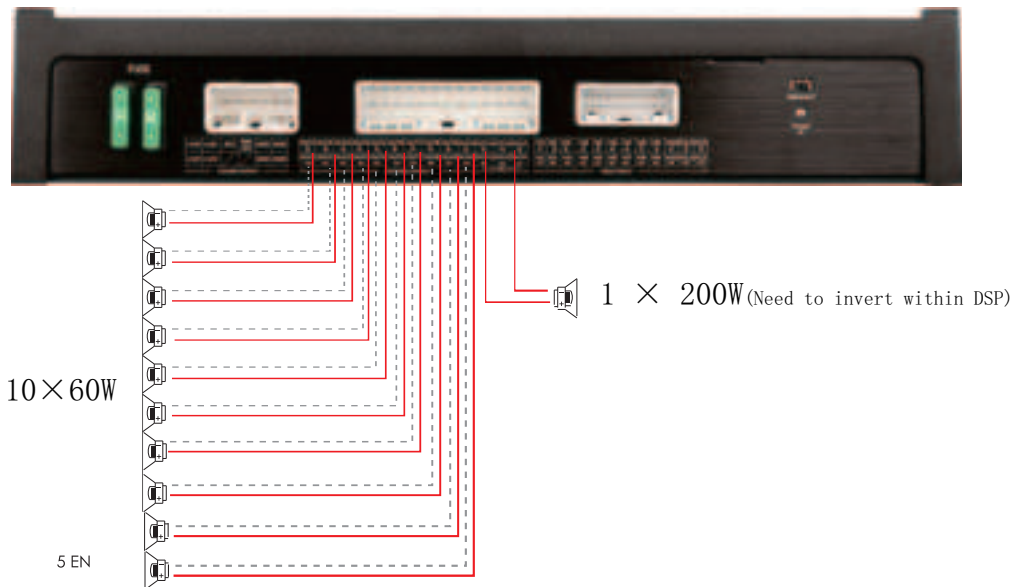
- 1、 Color screen in-line interface
2. USB connection PC computer interface
- 3.U disk interface
4. Bluetooth indicator
5. Low level input
6. RCA1~12 output
- 7.COAX input
- 8.Optical input
- 9.12V power interface
10. 12 high-level outputs
11. high-level inputs
12. Start mode switch
- 13.Power LED



THE SPEAKER WIRING IN NORMAL MODE



THE SPEAKER WIRING IN BRIDGE MODE



SOFTWARE INTRODUCTION

PC Software Operation Introduction

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.

English



1. Menu editing area

Main functions: File, options operation.

- a. 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".

- b. Click on "Option" to select Chinese and English switching, Noise Gate, RESET, InPutVOL and About(A)

简体中文
繁體中文
✓ English
Noise Gate
RESET
InPutVOL
About(A)

SOFTWARE INTRODUCTION

2. Function editing area

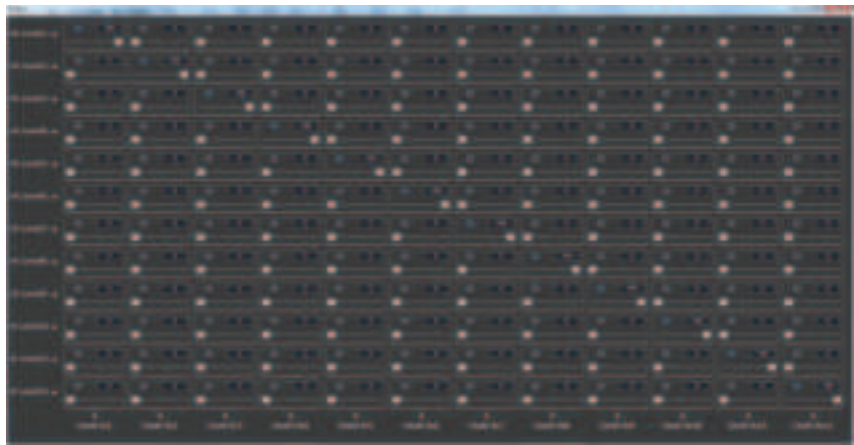


Main functions: scene, master source, mixer source, channel type, link, mixer and mode settings.

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



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



- f. Click "Stereo" to switch between stereo or bridge.

3. Main volume and software connection editing area



SOFTWARE INTRODUCTION

Main functions: master volume and computer software connection settings.

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



4. Output channel type editing area



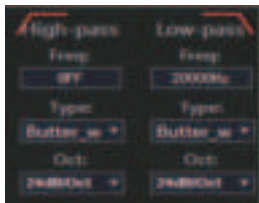
Main function: configure the type of output channel.

5. Channel delay, volume, phase editing area



- 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

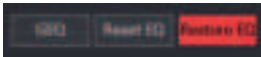


Main Function Setup: Channel High & Low Pass Filter Setup.

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

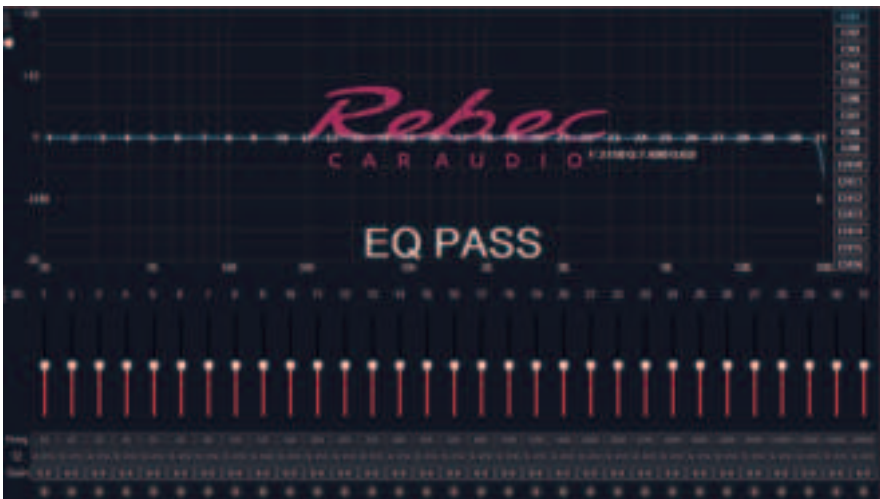
SOFTWARE INTRODUCTION

7. Equalizer editing area



- 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).
- 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



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).