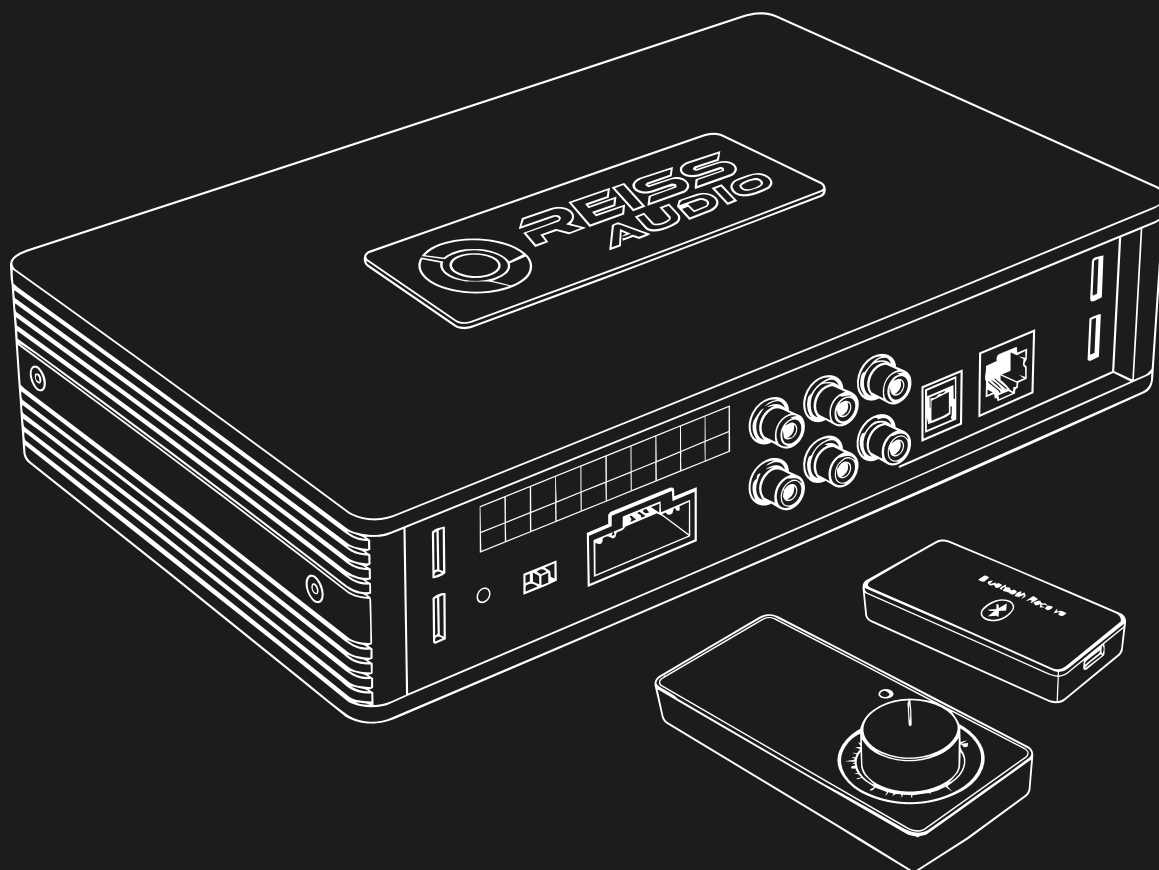




OWNER'S MANUAL

DIGITAL SOUND PROCESSOR

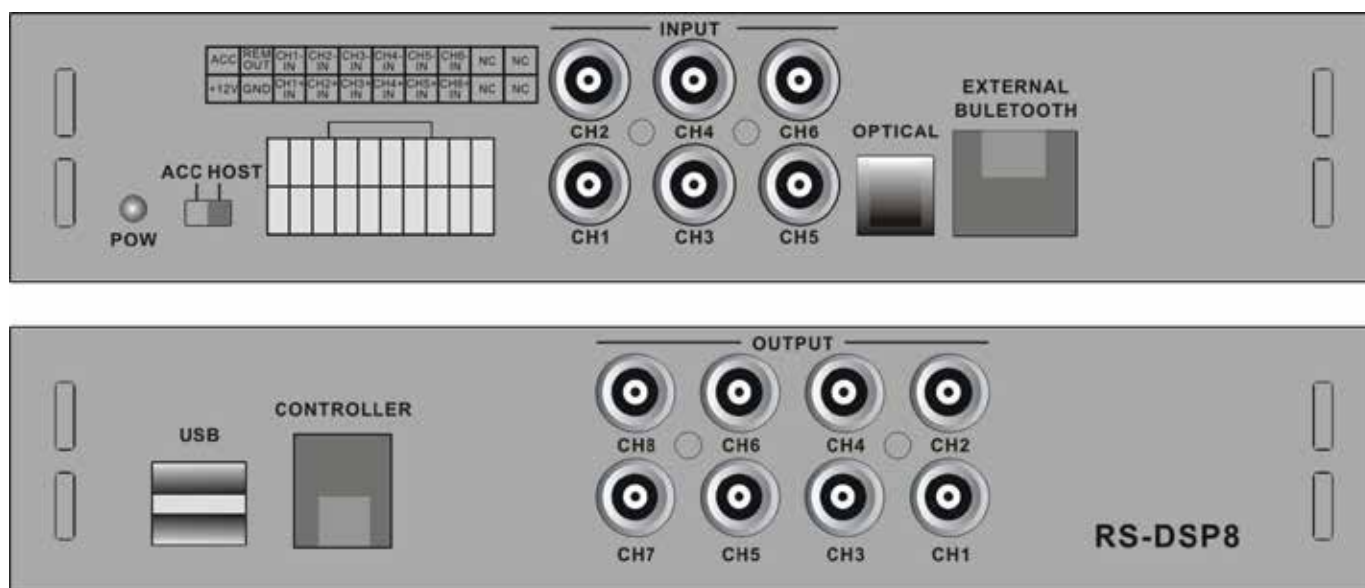
RS-DSP8 V2



Since 1985
TURKISH ENGINEERING

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2. Software Introduction
3. Product Technology Data
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Warning

- 1. To prevent short circuit, please keep the device away from water or wet places.
- 2. If water or any other liquid soak into the device, cut off the power immediately, and call our service engineer of inspection, in case of emergency.
- 3. Users are not allowed to dismount the device, please contact our service engineers when if it' s necessary.
- 4. Surface temperature of the device could above 80 degree Celsius, please choose a safe installation spot.

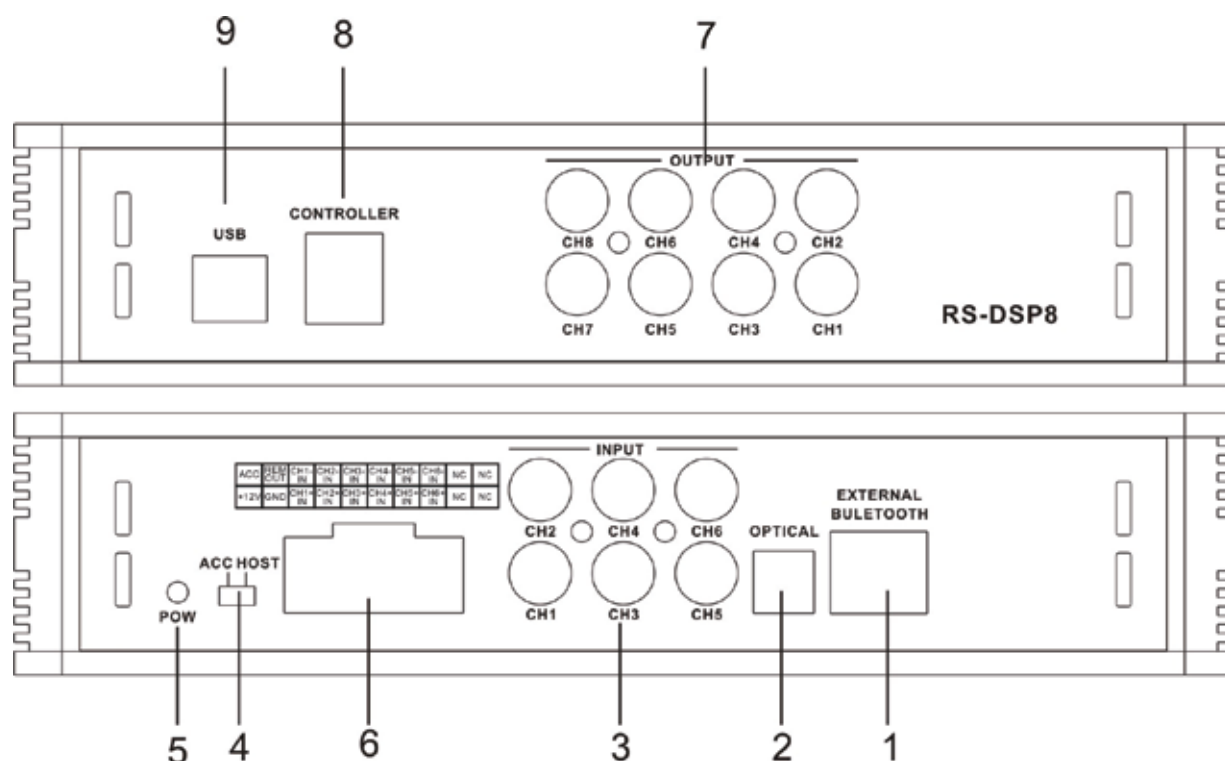


What' s in the Box

RS-DSP8	1pc
User Manual	1pcs
USB2.0 Cable(1.5m)	1pcs
Warranty Card	1pcs
Special Wire Rod	1pcs
Velcro	2pcs

UI Introduction

The machine interface diagram is as follows



- 1: 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.
- 2: Fiber port
Connect the car CD or DVD fiber optic cable, switch the machine audio source to digital input, and play the optical digital signal.
- 3: AUX low level input port
- 4: 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.
- 5: Power indicator light

6: 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 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.

ACC	REM OUT	CH1- IN	CH2- IN	CH3- IN	CH4- IN	CH5- IN	CH6- IN	NC	NC
+12 V	GND	CH1+ IN	CH2+ IN	CH3+ IN	CH4+ IN	CH5+ IN	CH6+ IN	NC	NC

7: Low Level Output Port

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

9: USB Port ,Connect to the computer tuning software.
No need to download the driver installation, connected to the computer sound software installed automatically

Notes: Android Phone, APP function only can be used when on Bluetooth Mode.

Software Introduction

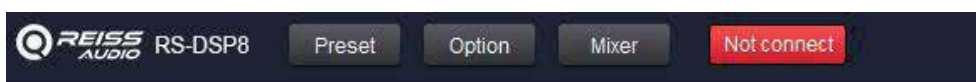
1: PC Software Operation Introduction

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.



Digital sound processor RS-DSP8

1: Main Menu Edit Section



Main features: Preset, option, mixer and connection operations.

① Click on the "Preset" pop-up window and select to load the Preset file on your computer or save it as a Preset file on your computer.



②Click on "Option" to select Chinese and English switching, firmware update, about and restore factory settings.



③Click "Mixer" to switch the mixing interface. The equalizer interface is as follows.



④Click the "Not Connected" button to connect to the host with a PC.



2: Channel equalizer 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).

- ① "Reset equalization" button: 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).
- ② Restore Equalizations button: 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).
- ③ Reset Output button: This button is to re-configure the output signal of the channel type of operation, when clicked, will pop up prompt for users to choose. "Empty" is to get all the output signal is not connected to any output channel speaker, of course, there will be no signal output, in preparation for the user flexible configuration. "Default" is to restore the initial system configuration, system configuration 4.1 sound field initial full frequency mode. "Cancel" is to cancel the click operation.
- ④ "Delay Unit" button: Select the delay unit by clicking the left or right arrow, available in milliseconds, centimeters, and inches.
- ⑤ Lock Output button: Click this button to configure the channels CH1 to CH8 to lock or unlock operation, it indicates that the configuration channel is locked, click this button again to unlock the display when the button is green. In the unlocked state, click CH1~CH8 can be configured to output the positioning of the sound field; in the locked state, if the output channel sound field is empty, you can not click to enter the editing interface, only the output channel sound field is not empty, click on the channel to enter edit mode, but the channel is not possible to select the sound field.
- ⑥ L/R Link button: Click this button, a pop-up dialog box, select the synchronous mode (option to "copy from left to right" or "Copy from right to left" radio button), press "OK" to confirm; when you click this button again FBI releasing left and right channels function. (Note: the left or right channel by the FBI, the software will automatically lock output channels, output of the equalizer, divider and output volume data may FBI mute, phase, space and delay)

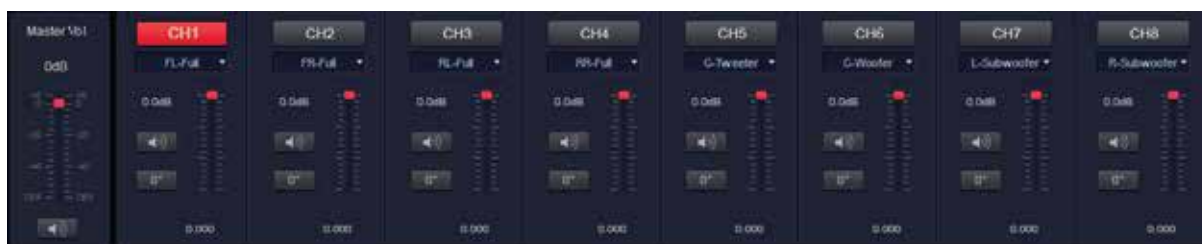
3: Channel divider editing area

Main Function Setup: Channel High & Low Pass Filter Setup

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

Technical Instruction: The crossover point of Bessel and Butterworth Filter is at -3dB, the crossover point of Linkwitz-Riley Fliter is at -6dB.

4: Output channel adjustment area



Output channel adjustment area, positive and negative phase of each channel, volume adjustment, mute, joint adjustment, etc.

- ① Output joint adjustment: Click the joint adjustment button to jointly adjust CH1 to CH3, CH4 to CH8 joint adjustment.

② Sound adjustment: slide the scroll up and down to adjust the sound level of the channel, or input the value or scroll the mouse wheel in the sound input box to adjust the sound size. Click the horn button to switch between mute.

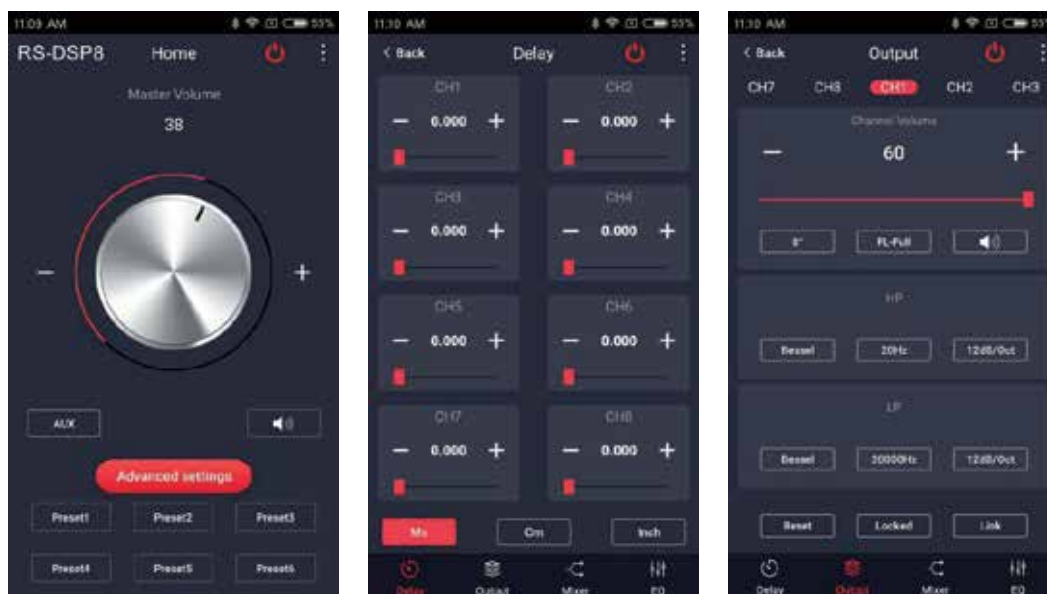
③ Positive phase adjustment: Click [0°] or [180°] to switch between positive phase and reverse phase.

5: Main Volume Adjust Zone

Adjustment Range: On/off, -59dB ~ 6dB. Click the speaker button to mute the main volume.



2、Smart-phone Software Operation Instruction



1. Main interface:

can share sound effects, save audio sound effects, open local sound effects, view the model and version number of the machine and exit the software operation; encrypt the data; store and recall 6 sets of preset scenes.

A · Connection Status:

Red means not connected, green means connected.

B · Menu:

You can share sound effects, save audio effects, turn on local sound effects, view the model number and version number, and exit the software operation.

C · Master volume adjustment:

The main volume can be adjusted by pressing the main volume scale clockwise or counterclockwise by hand. The volume range is 0~66.

D · advanced settings

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

mixing interface.

E · Scene preset:

There are 1~6 presets to choose from.

2、delay interface:

Sound field positioning output delay adjustment.

F · Delay setting:

Slide the corresponding direction of the dot to the left and right to set the delay for the CH1 to CH8 speakers.
Delay range: millisecond range: 0~20;
centimeter range: 0~692; inch range: 0~273

G · Unit switching:

Switch between milliseconds, centimeters, and inches.
Millisecond range : 0~20 ;
Centimeter range : 0~692 ;
Inch range : 0~273 ;

3、Channel interface:

Channel high-low-pass crossover setting with high-low-pass

independent filtering.

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

H · 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.

I · Channel type:

Butterworth , Linkwitz-Riley , Besselcan

be selected.

J · Frequency Range : 20Hz~20KHz ◦

K · Slope selection:

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

L · Joint settings:

Click on the joint icon, and the dialog box will pop up to select the channel for the joint adjustment.

M · Channel selection:

8 channels to choose from 20Hz~20KHz.



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 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: -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.

P. 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.

4 、Mixing interface:

It can perform 6 high level, 6 low level

digital left and digital right, Bluetooth

left and Bluetooth right mix selection

and adjustment, adjustment range:

0~100.

Product Technology Data

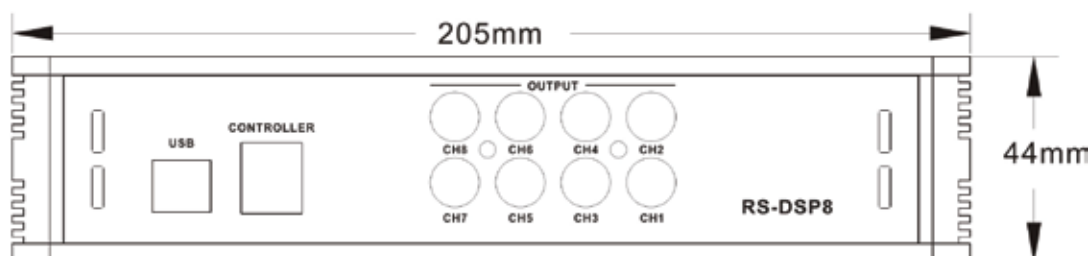
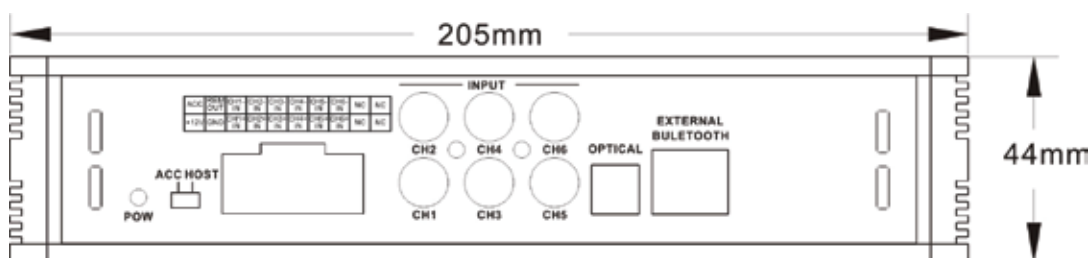
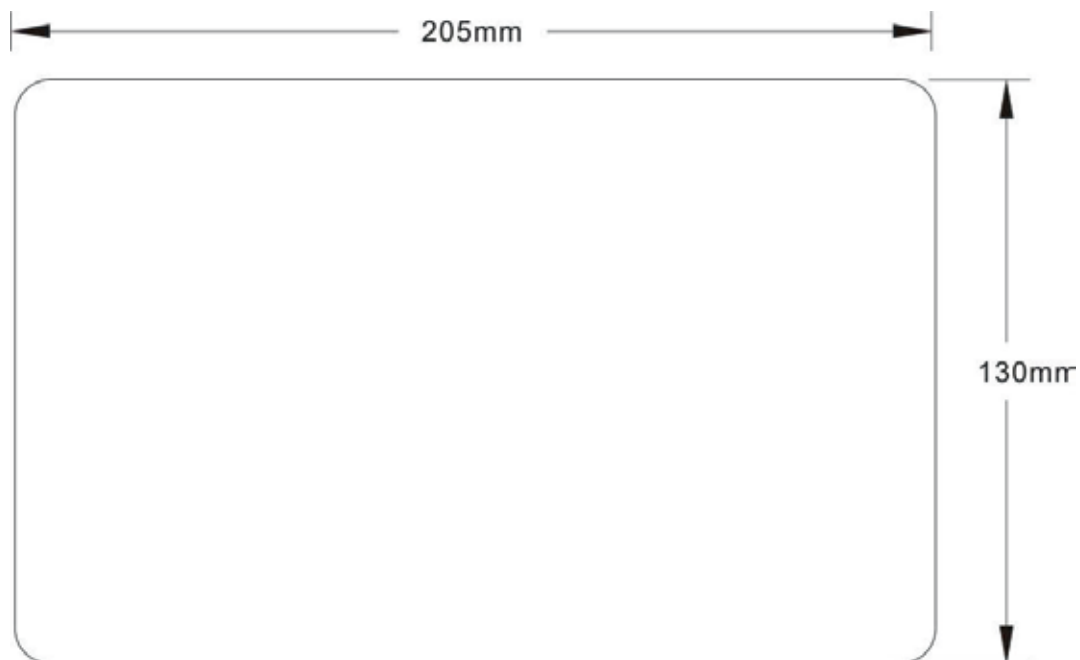
Product Data

Dynamic Range(RCA Input)	$\geq 100\text{dB}$
S/N (RCA Input)	$\geq 90\text{dB}$
THD	$\leq 0.05\%$
Frequency Response	20Hz~20KHz
Input Impedance	Hi level input : 240Ω , Low level input : $20\text{K}\Omega$
Low Level Output Impedance	100Ω
Signal Input & Output Range	RCA Input : 8Vpp ; High Level : 26Vpp ; RCA Output : 12Vpp
Working Temperature	$-30\sim 70^{\circ}\text{C}$
Power	DC 9V~16V
REM Input	High Level Input Signal:CH1+ /CH1- or ACC control cable
REM Output	+12V Start up Voltage Output
Standby Power	$\leq 0.1\text{W}$
Gross Weight	About 1.1kg
Product Dimension	205(L) *130(W) *44(H)mm

Technical Sheet

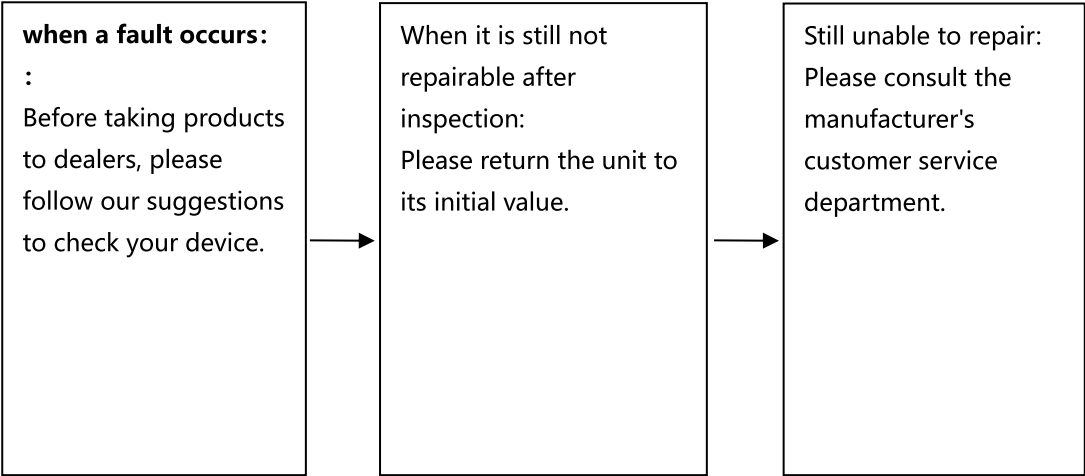
Input Signal Type	6 Channel high level Input, 6 Channel Low Level Input, external digital Bluetooth
Output Signal Type	8 Channel low level output
Output Signal Gain	Gain Range: Mute, ◦ -59dB~6dB ◦
Output Signal EQ	31 Bands EQ for every channel 1、 (Frequency Range) : 20Hz~20KHz ◦ 1Hz,1Hz Accuracy 2、 3、 Q Value(Slope) : 0.404~28.85 ◦ 4、 Gain : -12.0dB~+12.0dB ◦ 0.1dB Accuracy
Output Signal Crossover	Equipped with 2 nd order high and low pass filter 1、 Type : (Butterworth) ◦ (Linkwitz-Riley) ◦ (Bessel) ◦ 2、 Professional filter type: Butterworth , Linkwitz-Riley , Bessel 3、 Filter Crossover Point : : 20Hz~20KHz ◦ Resolution 1Hz 4、 Filter Slope Setup : 12dB/Oct~48dB/Oct ◦
Output Phase and Time Alignment	Adjust phase and time alignment for every output channel. In Phase or Out Phase (0° /180°) ◦ Time Alignment : 0.000-20.00mm ◦ 0-692cm, 0-273inch
Presets	Save 6 presets into the device.

Product Dimension as below:



Troubleshooting

Check all the cables and ports all perfectly safe before you switch on the power. Common troubleshooting procedure:



No.	Malfunction	Reason and Solution
1	No Power	① Check the power connection ② Check the ACC connection
2	No Sound	① Is it in mute mode ? ② Have you choose the right input signal channel.
3	Unable to connect USB	① Check the USB connection. ② Check if the driver "HID-compliant device" has been installed in your PC.



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