



# USER MANUAL

DAC Digital Speaker Rarity 40

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## Welcome to DONNER

We are very grateful to have you purchasing our product.

Please take a few minutes to read the instructions for operating this product, which will show you how to use it and explain the function and operation of the device, ensuring a trouble-free installation.

Please keep these operating instructions properly for reference in the future.

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### **WARNING**

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

To reduce the risk of fire, electric shock and annoying interference, please use only the recommended accessories for uninterrupted service of this device!

Design and specifications may change without notice.

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The above warning is located on the rear of the unit.

## EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

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- 11 Only use attachments/accessories specified by the manufacturer.
  - 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
  - 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## IMPORTANT SAFETY INSTRUCTIONS

Please read carefully before proceeding. Keep the manual in a safe place for future reference.

### **Warning**

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

#### **Important! Before Using Your Speaker!**

- The voltage selector switch and mains fuse is set at the factory for the country or region in which this Donner product is intended to be sold. To prevent serious damage to the product, ensure that the rated AC mains voltage indicated on the product's rear panel agrees with the mains voltage from your AC mains inlet before connecting the IEC power cable. If the product is to be used outside of the factory set region, please ensure the voltage selector switch (found on the rear or side panel) is set to the correct voltage for the new country/region.

#### **Power Supply**

- Use only the supplied power cord/plug. If you intend to use the product in an area other than in the one you purchased, the included power cord may not be compatible.
- Only use the voltage specified as correct for the product. The required voltage is printed on the name plate of the product.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- Make sure to fully insert the electric plug to prevent electric shocks or fire.

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- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, as long as the power cord is not unplugged from the wall AC outlet, the product will not be disconnected from the power source.
  - Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock, fire, or damage.
  - Remove the electric plug from the outlet when the product is not to be used for extended periods of time.
  - Do not touch the product or the electric plug during an electrical storm.

### **Do not open**

- This product contains no user-serviceable parts. Do not attempt to disassemble the internal parts or modify them in any way.

### **Connection**

- Before turning the power of all devices on or off, make sure that all volume levels are set to the minimum. Failing to do so may result in hearing loss or device damage.
- When turning on the AC power in your audio system, always turn on the product LAST, to avoid hearing loss and speaker damage. When turning the power off, the product should be turned off FIRST for the same reason.

### **Location**

- Do not place the product in an unstable position or a location with excessive vibration, where it might accidentally fall over and cause injury.
- Keep this product out of reach of children. This product is not suitable for use in locations where children are likely to be present.
- When installing the product:
  1. Do not cover it with any cloth.
  2. Do not install it on a carpet or rug.
  3. Make sure the top surface faces up; do not install on its sides or upside down.
- Do not use the product in a confined, poorly-ventilated location.  
Inadequate ventilation can result in overheating, possibly causing damage to the product(s), or even fire. Make sure that there is adequate space around the product: at least 20cm above, 20cm at the sides and 20cm behind.
- Do not place the product in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.
- Before moving the product, remove all connected cables.
- Do not press the rear panel of the product against the wall. Doing so may cause the plug to come in contact with the wall and detach from the power cord, resulting in short circuiting, malfunction, or even fire.

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### **Water / Fire warning**

- Do not expose the product to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.
- Do not place any burning items or open flames near the product, since they may cause a fire.

### **Abnormality**

- If any of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet.
  - The power cord or plug becomes frayed or damaged.
  - Unusual smells or smoke are emitted.
  - Some object, or water has been dropped into the product.
  - There is a sudden loss of sound during use of the product.
  - Cracks or other visible damage appear on the product.

### **Handling and Maintenance**

- Do not use the product in the vicinity of a TV, radio, or other electric products. Otherwise, the product, TV, or radio may generate noise.
- Do not expose the product to excessive dust or vibration, or extreme cold or heat, in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not install in locations where temperature changes are severe. Otherwise, condensation may form on the inside or the surface of the product, causing it to break or deform the wood.
  - Do not leave condensation on the wood; wipe immediately with a soft cloth.
- If there is reason to believe that condensation might have occurred, leave the product for several hours without turning on the power until the condensation has completely dried out, in order to prevent possible damage.
- Do not touch the speaker driver unit, since it might cause malfunction.
- Do not place vinyl, plastic or rubber objects on the product, since this might cause alteration or discoloration of the panel.
- When cleaning the product, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical impregnated wiping cloths, since this might cause alteration or discoloration.
- Do not place the speaker face down.
- Air blowing out of the bass reflex ports is normal, and often occurs when the speaker is handling program material with heavy bass content.
- Always turn the power off when the device is not in use.

**Notes: Donner cannot be held responsible for damage caused by improper use or modifications to the device.**

## PRODUCT OVERVIEW

### Preface

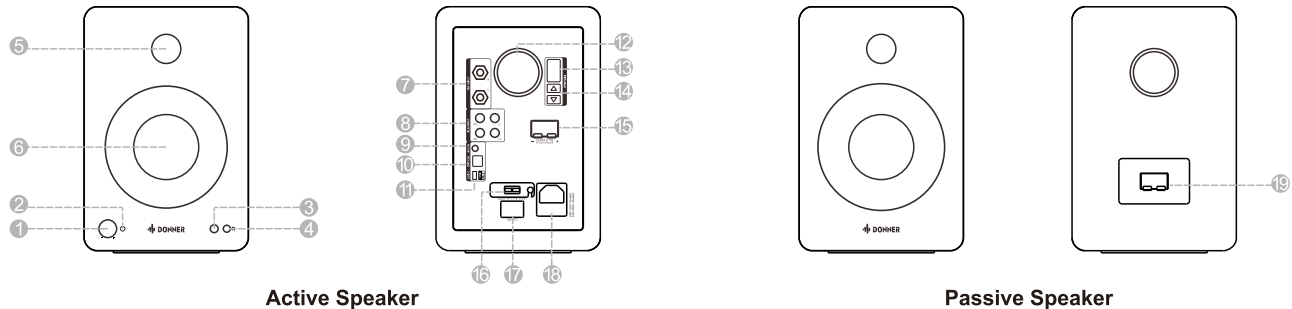
Thank you for purchasing Donner Rarity 40 DAC digital speakers.

Rarity 40 is designed and applied to different styles of music appreciation and listening, video editing applications, movie viewing, game sound effects and other use scenarios. The attached stereo CSR chip Bluetooth 5.0 function meets the needs of listening to music anytime and anywhere in the home or office environment. As a versatile product for enjoying wonderful music, Rarity series products will greatly improve your understanding and enjoyment of music.

### Overview

- 40W class D compact dichotomy near-field active speaker, with professional cavity acoustic structure.
- Accurate and straight frequency response and accurate sound field positioning restore the essence of music.
- ADC sampling chip: pcm1808. (96 kHz, 24 bit)
- Front headphone output interface, mute other output interfaces when connected to realize quiet listening.
- Digital signal: support type C digital input; Coaxial input; Stereo CSR chip Bluetooth 5.0, supports AAC, MP3, SBC, AAC + faststream, aptx, aptx-hd.
- Analog signal: support 1 / 4 "TRS balance signal input, two groups of RCA signal input and 1 / 8" aux signal input; Supports 1 / 8 "headphone output.
- High density environmental protection board all wooden box.

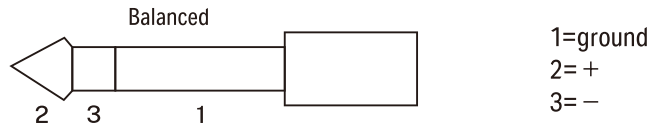
### Panel Layout





- ① **Volume knob:** controls the total input volume. When the knob is at 12 o'clock, the input signal level is 0dB, which is the recommended working state.
- ② **Power indicator:** used to indicate the on-off state, power on, power off, etc.
- ③ **Bluetooth switch button:** control the switch status of CSR Bluetooth 5.0 Bluetooth input, click the switch Bluetooth function, and use the Bluetooth transmitting device to search for the signal name "Rarity40" and connect it for Bluetooth audio output.  
- Press the bluetooth button to turn on or off bluetooth, long press for 5 seconds to reset bluetooth.
- ④ **Headphone connector:** 1 / 8 "headphone output connector, used to connect headphones. When the headset is connected, other output interfaces are muted, and the volume of the headset is controlled by the volume knob.
- ⑤ **Tweeter:** 0.75 inch tweeter.
- ⑥ **Subwoofer:** 4-inch subwoofer.
- ⑦ **TRS input:** 1 / 4 "TRS balanced input interface group, supporting balanced signal input.

*Note: it is recommended to place the active main box on the left and the passive auxiliary box on the right. Please ensure that the left channel of the input sound source is connected to the left input of the speaker, and the right channel of the input sound source is connected to the right input of the speaker. The wrong connection will cause the stereo imaging to flip.*



- ⑧ **RCA input:** two groups of RCA inputs, supporting unbalanced signal input. White is the left channel and red is the right channel.  
*Note: six input modes, such as TRS / RCA / Aux / Bluetooth / optical fiber / USB, are designed to adapt to users' convenient use under different equipment connections and different use scenarios. They are not designed to access multiple input signals at the same time. Simultaneous input of multiple audio signals may cause signal distortion or power amplifier to enter the protection state.*
- ⑨ **Aux input:** 1 / 8 "stereo audio input interface, which is used to connect common multimedia devices.
- ⑩ **SPDI / F input:** Coaxial input interface, used to connect Coaxial signal input.
- ⑪ **Usb-c input:** USB type-C input interface, which is used to connect computer or mobile phone digital input, supports 96KHZ, 24bits audio stream input, and is drive free.
- ⑫ **Guide hole:** the rear guide hole air duct, the distance against the wall shall not be less than 10cm.

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- 13 **Nixie tube:** single digit nixie tube, "0-9" display a total of 10 program presets, built-in 10 different styles of Eq. Press the key below to switch between 0-9. Users can deeply customize custom eq settings and save them through win / MAC / Android / IOS client.
  - 14 **Switch button:** switch nixie tube program 0-9 left and right.
  - 15 **Main box speaker clamp:** used to connect the output power with the auxiliary box and drive the auxiliary box. Please use the horn cable delivered by the original machine and connect the positive and negative poles correctly. Red is positive and black is negative.
  - 16 **Voltage switching shift:** 110V ~ 220V voltage switching shift is used to adapt to the municipal power input voltage of different countries. Adapt 100V ~ 120V voltage at 110V gear; Adapt to 200V ~ 240V voltage at 220V gear.  
*Note: please do not move the voltage to switch gears by yourself, which may cause damage to the machine and fire lights. The company is not responsible for the damage or loss of the machine caused by the user's self shifting voltage.*
  - 17 **Power switch:** used to control the startup or shutdown of the whole machine.
  - 18 **Power input interface:** use the attached power cord to connect the power input.  
- The replaceable fuse parameters are F10A/ 250V. Please replace as required.
  - 19 **Auxiliary box speaker clamp:** used to connect with the main box to output power and drive the auxiliary box. Please use the horn cable delivered by the original machine and connect the positive and negative poles correctly. Red is positive and black is negative.

## INSTALLATION SETTINGS

### Wired connection of sound source input

Please use appropriate cables to connect the Rarity series speakers to audio interface, mobile phone, computer, sound card, mixer and other sound source equipment.

- **Short distance, high quality cables**

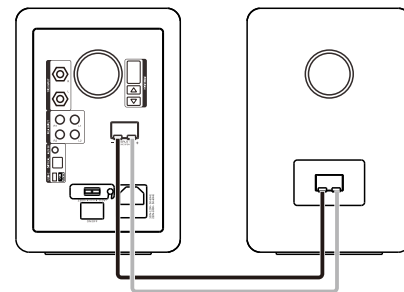
Please use a high-quality cable with the shortest effective length possible. The longer the cable, the greater the chance of noise and sound degradation.

- **Balanced cable**

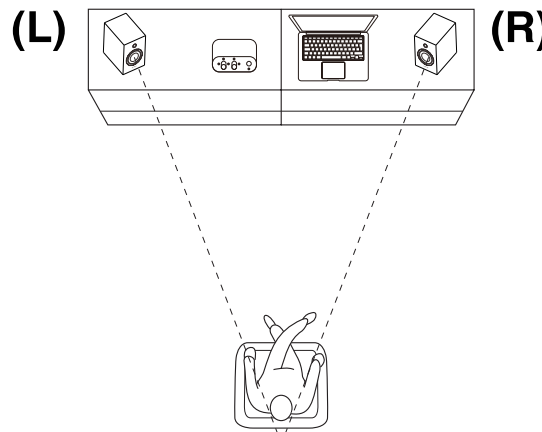
Balanced cables have better noise resistance than unbalanced cables. If the unbalanced cable has to be used because the sound source equipment has only unbalanced output, make sure to use the unbalanced cable as short as possible. It is recommended to use the balanced sound cable to connect the TRS input interface of Rarity series speakers for better playback effect.

## Main and auxiliary connections

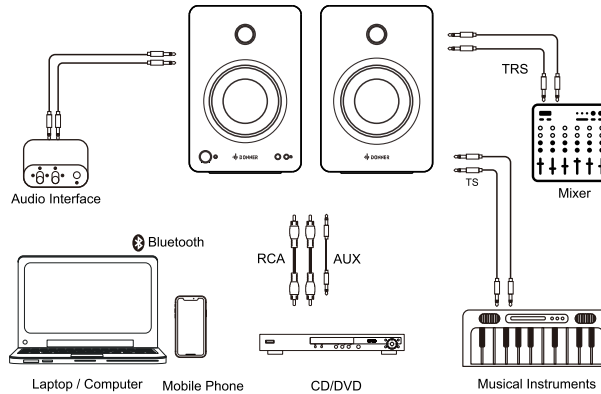
- Please connect the attached AC power cord to the power input port of the speaker main box.
- Please connect the attached horn cable to the speaker cable clamp of the main and auxiliary boxes according to the positive (gray) and negative (black).



- Please put the main speaker box on the left side as the left channel playback device, and put the secondary speaker box on the right side as the right channel playback device.
- Please turn the volume knob of the speaker to 0, connect different input interfaces through different wires, connect the other end of the interface to the input sound source (TRS / RCA / Aux / Bluetooth / Coaxial / USB), turn on the power switch to power on, and gradually turn on the volume knob to adjust to the appropriate playback volume. It is recommended to keep the volume knob at the 12 o'clock position for better playback effect.



## AUDIO CONNECTIONS



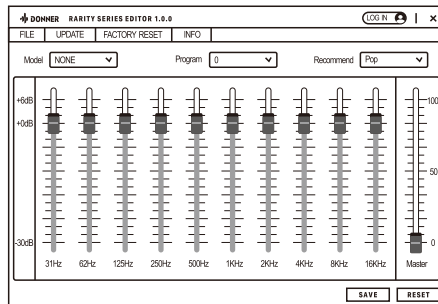
## EQ EDITOR

PC download : WINDOWS to [https://drive.google.com/file/d/1B\\_e\\_bA4kLd4369GS8IMJWDA\\_uE0M\\_la9/view](https://drive.google.com/file/d/1B_e_bA4kLd4369GS8IMJWDA_uE0M_la9/view) ;

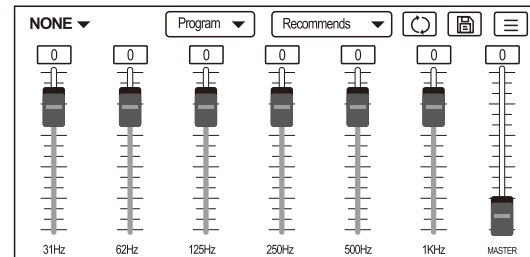
MAC OS to <https://drive.google.com/file/d/16U579P6ayl0pGyEPJKIfLKavyDffKyB/view> ;

APP download : Search "DONNER Rarity EQ Editor" in Apple or Google Store to download.

Register and log in, you could modify EQ and save files. (For more functions and operations, please query files on the Database software)



DONNER Rarity EQ EDITOR PC



DONNER Rarity EQ EDITOR APP

## SPECIFICATIONS

### Donner Rarity 40

Input	1/4" TRS Balanced Input / RCA Input / Aux Input / Bluetooth /Coaxial/USB Type C
Output	1/8" Headphone Output
Overall Frequency Response	75Hz – 18kHz
Crossover Frequency	2.2KHz
Power Amplifier	Class D 40W (20W/Speaker)
HF Driver	3/4"Special damping silk
LF Driver	4" Composite pulp
Cabinet	MDF ROHS Bass-reflex type
Input Impedance	8Ω
Bluetooth	CSR Stereo Bluetooth 5.0(AAC, MP3, SBC,AAC+ Faststream , APTX, APTX-HD)
ADC sampling chip	PCM1808(24-Bit, 96-kHz)
Power	100V - 120V ~ 50/60Hz 220V - 240V ~ 50/60Hz
Weight	5.36KG (Pair)
Dimensions	155mm X 215mm X 230mm
Accessories	Manual;RCA to 1/8" stereo cable;USB-C to USB-A cable x 1;IEC Power cable;Speaker cable.

## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Power won't turn on / LED doesn't light.	The power cord might not be connected properly.	Check and connect the IEC power cord.
	The power switch might not be turned on.	Turn the power switch ON. If the problem persists, contact your local dealer or Donner customer service.
No sound	One or more cables might not be connected properly.	Check that all cables are properly connected.
	The source equipment might not be supplying an audio signal.	Make sure that the source equipment is functioning properly and delivering the required signal.
	The volume setting might be too low.	Adjust the output level setting of the source equipment, or use the Volume control to increase the output level.
	Bluetooth does not be connected.	Turn on the Bluetooth switch, use your Bluetooth device searching the Bluetooth signal and select "Rarity 40".
Noisy or distorted sound.	One or more cables might be corroded, shorted, or otherwise broken.	Replace faulty or broken cable.
	The system might be picking up external noise.	Try changing the positions or layout of the cables.
		Try changing the location of other electrical / electronic devices that are near the speakers.

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## FCC STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



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[www.donnerdeal.com](http://www.donnerdeal.com)

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