

MATRIX

www.matrix-digi.com

Rip User Guide
用户手册

USB DAC & Headphone Amplifier

USB解码器&高保真耳机放大器

USB $\frac{96\text{KHz}}{24\text{bit}}$

Thank you for becoming a member of **MATRIX** users.

Please take a few minutes to read this manual booklet carefully before installing and using the product.

And enjoy the infinite auditory pleasure brought to you by the superb performance of **MATRIX** Rip.

Be sure to keep all user documentation handy for future reference, including the Model No. & Serial No.

CAUTION:
For the prevention from fire and electric shock, do not let the appliance drench with rain and get wet.

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● FEATURES

MATRIX Rip USB decoder & headphone amplifier is a piece of audio equipment designed for computers with high-fidelity audio playback of high-impedance. Sophisticated designs equip Rip with the following features to explore every small detail in the music for you, and provide you a tactile sensation of its sound performance to fully meet your demands for a high-quality Hi-Fi.

- Its USB interface supports up to 24bit/96KHz digital audio signal playback.
- Its USB interface is compatible with Microsoft windows7, Vista, XP, 2000, Mac OS X system.
- Its Coaxial interface supports up to 24bit/192KHz digital audio signal playback.
- Its Internal headphone amplifier unit can easily drive any moving-coil headphones of up to 300 ohms.
- Dual channel headphone output for easy connection of different impedance headphones.
- Equipped with RCA Analog input and output ports, it can be used as an independent headphone amplifier.
- Using PCM1793 high-quality D/A conversion chips.
- Using an ultra-low distortion audio op-amp to get the best signal playback for you.

● INTRODUCTION

Please put **MATRIX** Rip in a well-ventilated place away from heat source, and avoid dust accumulation and excessive vibration. For the prevention from fire, please reserve some secure space around Rip according to the following requirements:

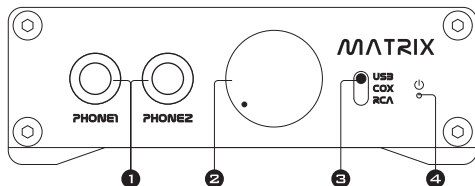
- At least 5cm on both sides and its back.
- At least 10cm from its top.

Do not stack Rip with other equipments which generate lots of

Heat, otherwise it may lead to the decline of Rip's working stability. It may even damage Rip, or cause other serious accidents.

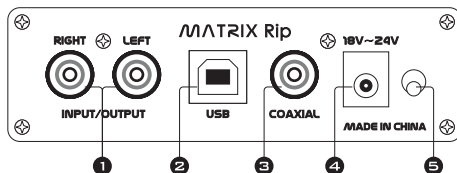
Rip cannot bear fierce collisions. Please handle it gently while carrying, so as not to cause unnecessary damage.

● FRONT PANEL



- ❶ Headphone Insert
- ❷ Volume Knob
- ❸ Input Channel Switch
- ❹ Power LED

● BACK PANEL



- ❶ RCA Analog Input / Output
- ❷ USB Input
- ❸ Coaxial Input
- ❹ ON/OFF
- ❺ Power In

● AC POWER

Rip has a power adapter of two specifications: AC 110/120V and

AC 220/240V. Please choose according to your power supply specifications before purchasing, for connecting to the wrong power supply can result in equipment damage.

Make sure the input power is within the appropriate voltage range, low supply voltage will lead to noises which will affect your use.

If you use a non-**MATRIX** power cable, make sure its output voltage ranges from 18V ~ 24V.

● SETTINGS & USAGE

ON/OFF

Connect Rip to an AC power by plugging the cable into the power insert on the back panel. Turn on the power, the blue LED will show that Rip is into working state.

If you don't use Rip for a long time, please turn it off and unplug the power cable to reduce electricity consumption.

MODE SWITCH

Rip has three operating modes, USB input mode, coaxial input mode, independent headphone amplifier mode. Three input mode toggle switch on the panel by the conversion:

● When the mode switch is in the USB position, then the rear panel RCA jack for line out, it with the front panel headphone jack output of the computer audio signals simultaneously.

● When the mode switch is COAX position, then the rear panel RCA jack to line out, it with front panel headphone jack output of the coaxial input audio signals simultaneously.

● When the mode switch is in the AUX position, then the rear panel RCA jack for the line input, the headphone jack line input audio signal.

VOLUME CONTROL

By turning the volume knob on the front panel, you can adjust the

Volume in real time.

Before you turn the power on, please check the volume knob to avoid excessive volume. High volume for a long time can cause hearing impairment.

HEADPHONE OUTPUT

Rip has a standard 1 / 4 "headphone output interface on the front panel for 6.35mm stereo headphone plugs.

If you use a 3.5mm headphone plug, please connect to a 6.35/3.5mm conversion connector first.

Front panel of the Rip there are two standard 1/4"headphone output,it can be connected 6.35mm stereo headphone plug, such as the use of 3.5mm headphone plug, please use the 6.35/3.5mm conversion connector. POHEN1 is a high impedance output for connection to a low resistance of small headphones; PHOEN2 is low impedance output for connection to high resistance of the large headphones, please don't insert a mono headphone plug , Otherwise it will have the risk of damage to your equipment.

Do not insert mono audio track headphone plugs, for it might make damages to the equipment.

● TROUBLE SHOOTING

Check the following before calling for service:

- Whether all the connections have been done correctly
- Whether your **MATRIX** Rip is properly

If your problems cannot be solved by the remedies listed in the table above, it might due to the malfunction of Rip's internal circuitry. In this case, please immediately unplug the power cable and contact the **MATRIX** Customer Service.

PROBLEMS	CAUSES	SOLUTIONS
Power off	<ul style="list-style-type: none"> ● It might be not plugged into a proper AC or turned off 	<ul style="list-style-type: none"> ● Make sure the power cable is connected to a proper AC and turn it ON
No sound output in headphones	<ul style="list-style-type: none"> ● Digital input cable disconnected or no input signal ● Volume has been turned to minimum ● Headphone plug is not properly inserted 	<ul style="list-style-type: none"> ● Make sure the digital input cable is linked up correctly ● Adjust the volume ● Insert the Headphone plug properly
Each of the channel has no sound to output	<ul style="list-style-type: none"> ● USB cable is not connected to your computer ● The coaxial terminal is not connected to the front of audio device ● Make sure the computer audio playback device is set correctly 	<ul style="list-style-type: none"> ● Make sure the USB cable is connected to your computer ● Make sure the coaxial terminal is connected to the front of audio device. ● The computer audio playback device is set to Rip device.

● TECHNICAL SPECIFICATIONS

USB INPUT: 24Bit 44.1kHz~96kHz
(windows7、 Vista、 XP、 2000、 Mac OS X)

COXIAL INPUT: 24Bit 32kHz~192kHz

ANALOG OUTPUT:

RCA Output Level: 2VRMS
 Frequency response: 20Hz~20kHz
 SNR: 104dB
 Distortion: <0.002%(1kHz)

HEADPHONE OUTPUT:

RCA Analog Input: 20Hz~20kHz 47 k Ohms
 Maximum Output Current: 200mA
 Gain Bandwidth: > 500kHz
 SNR: 95dB

POWER SPECIFICATIONS:

power-line voltage: 18V~24V(AC/DC)
 Power consumption:: <10W

OTHER SPECIFICATIONS:

Working Temperature: 0~+40°C

Weight:	0.4kg
Dimension:	180×97×33mm(L×W×H)

NOTE: Specifications subject to changes without prior notice.

● CUSTOMER SERVICE

From the date of purchase, **MATRIX** provides you with a one-year-limited warranty.

This warranty is confined to the malfunction of our products which is due to the quality problems of the original components or manufacturing issues.

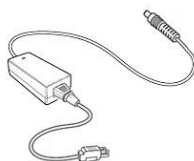
Any failure and losses result from ignoring the cautions mentioned in this instruction or misusing as follows are not covered by the warranty:

- Inappropriate connection to the power.
- Attempts to disassemble the product.
- Circuit modification done by customer.
- Unauthorized replacement of the original components.
- Other unauthorized changes done by customer.
- Damage of the accessories.

● ACCESSORIES



User guide



Power cable

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