

*Carot One*

**DOPPIO RUM 70 AUDIOPHILE CLASS D  
MONOBLOCK**



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## 1. Introduction

Thank you for your purchase of Carot One DOPPIO RUM 70 Class-D mono block audio power amplifier.

Carot One introduces the mini-size Class-D mono block amplifier DOPPIO RUM 70 providing up to 1 x 70W output with the bundled AC power supply unit. With our special techniques in circuit design and component selection, the pair of DOPPIO RUM 70 provides you stunning power effect while still achieves the sound quality of high-end Hi Fi but in a very affordable price.

## 2. Features

- Digital class-D amplification for audiophile quality sound, high power efficiency (90%) and less heat generation
- Compact design (mini-size & light weight), easy portable and setup
- Individual 24VDC power supply for each unit to ensure sufficient current provide to circuit for high power output
- Each provide up to 1 x 70W output
- An AC adaptor is bundled for continuous power supply.
- Tried-and-true Texas Instruments Class D architecture
- Built-in over/under voltage protection
- Built-in over-temperature protection
- Audiophile-graded parts and components
- The stylish & specially-plated aluminum case provides not only good-looking, and also provides outstanding shielding capability.

## Safety Guidelines

Important safety instructions

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions.

### **1. Take heed of warnings and instructions**

You should read all the safety and operating instructions before operating this equipment. Retain this handbook for future reference and adhere to all warnings in the handbook or on the equipment.

### **2. Water and moisture**

The presence of electricity near water can be dangerous.

Do not use the equipment near water, for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

### **3. Object or liquid entry**

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid filled objects such as vases should not be placed on the equipment.

### **4. Placing the equipment**

Only use a rack or shelf that is stable and strong enough to support the weight of this equipment.

### **5. Ventilation**

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. We recommend a minimum distance of 50mm around the sides and top of the equipment to provide adequate ventilation.

### **6 Heat**

Locate the equipment away from naked flames or heat producing appliances such as radiators, stoves or other appliances that produce heat.

## **7 Climate**

The equipment has been designed for use in moderate climates and in domestic situations.

## **8. Cleaning**

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, lint-free cloth. Do not use chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause indelible white marks.

## **9. Power sources**

Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment.

The primary method of isolating the unit from the mains supply is to use the switch on the rear of the unit. The unit must be installed in a manner that makes disconnection possible.

## **10. Power-cord protection**

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to the point where they exit from the equipment.

## **11. Power lines**

Locate any outdoor antenna/aerial away from power lines.

## **12. Non-use periods**

If the equipment is not being used for an extended period, we recommend that you unplug the power cord of the equipment from the outlet, to save power.

## **13. Abnormal smell**

If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.

## **14. Servicing**

You should not attempt to service the equipment.

Contact your dealer to arrange servicing.

## 15. Damage requiring service

The equipment should be serviced by qualified service personnel when:

- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the equipment, or
- C. the equipment has been exposed to rain, or
- D. the equipment does not appear to operate normally or exhibits a marked change in performance, or
- E. the equipment has been dropped or the enclosure damaged.

## Safety compliance

This equipment has been designed to meet the EOCENE 60065 international electrical safety standards.

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.

## **WARNING:**

Due to the mains power supply being located on the rear panel, the apparatus must be located in an open area without anything obstructing access to the mains switch.

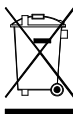
Mains plug/appliance coupler is used to disconnect device and it shall remain readily operable.

## **Correct disposal of this product**

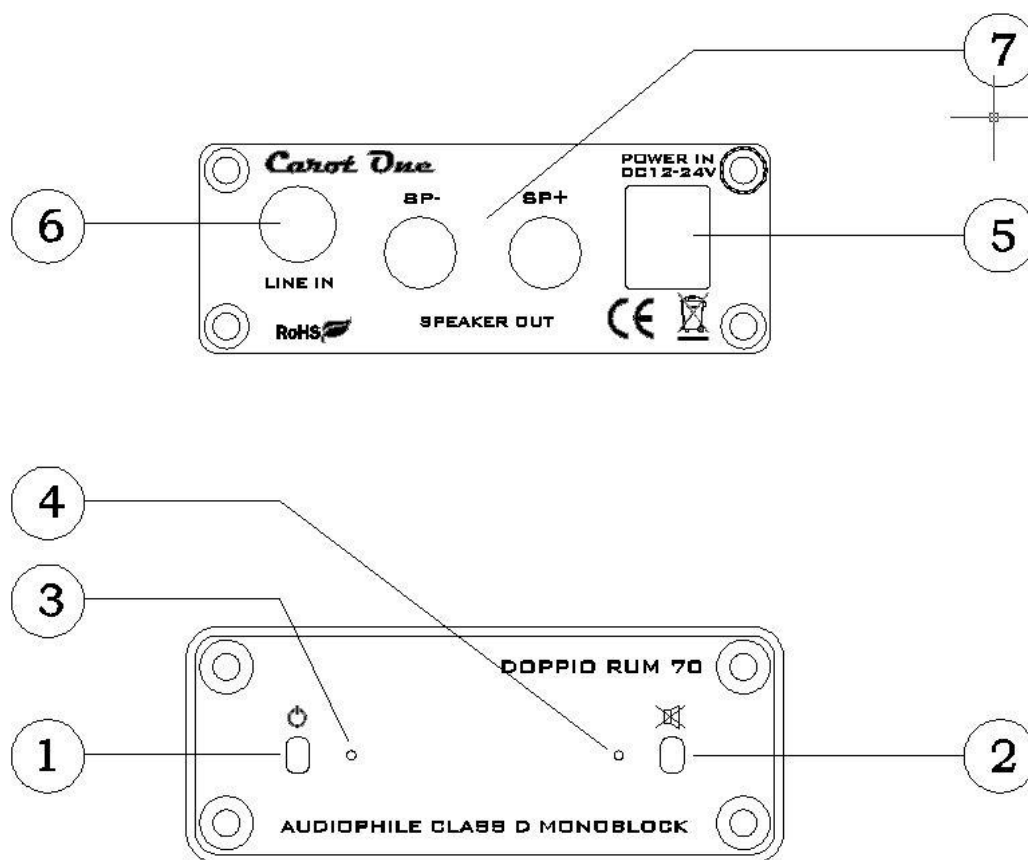
This marking indicates that this product should not be disposed with other household waste throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal and to conserve material resources, this product should be recycled responsibly.

To dispose of your product, please use your local return and collection systems or contact the retailer where the product was purchased.



## 3. Overview



1. Power on/off switch
2. Mute switch
3. Power on/off indicator
4. Mute on/off indicator
5. Power Supply Socket; Plug the bundled AC Adaptor to this socket to supply power to this amplifier.
6. RCA Signal Input socket
7. Speaker Output binding post

### **WARNING:**

When plug in your pre-amplifier into the mini jack (4), always plug in a vertical way. NEVER shake the mini jack as this will permanently damage the internal structure of the socket causing bad contact of signal.

## 3.1 Connection

The mini series is easy to use product. Simply connect your pre-amplifier and speakers following below steps, you can enjoy the high quality music in a second:

- Connect your pre-amplifier to the RCA Signal Input socket (4) using normal RCA audio cable (included). As both unit of DOPPIO RUM 70 might be placed further apart, you might need to split the RCA cable in order to plug in this audio cable
- Connect your speakers to the binding post (5)
- Connect the power adaptor to the "Power In" connector (3)

It's now all set and you are ready to enjoy your music.

## 3.2 Operation

DOPPIO RUM 70 is a pure power amplifier. However, due to its high power output, On/Off operation must be followed in order to avoid damage to the amplifier and your speakers.

### To turn on the amplifier

- Put the volume mute button (2) to the mute position and green indicator (4) is on
- Turn DOPPIO RUM 70 on using the power button (1) and blue indicator (3) is on
- Un-mute the amplifier using the mute button (2), green indicator (4) off
- Any volume control should be done on your pre-amplifier.

### To turn off the amplifier

- Put the volume mute button (2) to the mute position and green indicator (4) is on
- Turn DOPPIO RUM 70 off using the power button (1) and blue indicator (3) is off



## To mute your music at any time

If you want to mute your music at any time, either mute your pre-amplifier or put the mute button (2) of DOPPIO RUM 70 to the mute position and green indicator (4) is on.

## 4. Specifications

### 4.1 Specification of the Power Amplifier Unit

Power IC	Texas Instruments TPA-3116
Output Power	1x70W @4ohm (24VDC <1% THD+N)
Signal-to-Noise Ratio (SNR)	102dB (Max output @ THD+N<1% A-weighted)
Frequency Response	20 ~ 20,000 Hz
Input Audio	RCA (mono) x 1
Power Socket	2.1mm x 1
Speaker OUT	Speaker binding post x 2
Power Indicator	(Blue / Green LED) x1
Power Supply	DC 12V-24V (max.)
Dimensions	67mm (W) x 27mm (H) x 118mm (D)

### 4.2 Specification of the AC Adaptor

AC Input Universal AC 100V-240V/50-60Hz  
DC Output DC 24V 5A (120W)  
DC Plug DC 2.1mm  
Dimensions (L)168mm x (W)65.5mm x (H)39mm

## 5. Troubleshooting

If your machine is out of order, it may not be very serious. Before you call your local distributor or us to repair, you are suggested to check the following:

SYMPTOM	POSSIBLE CAUSE	REMEDY
cannot power ON indicator not bright	power cords not properly connected	properly connect the power cords
no sound at all	The audio cable not properly connected	properly connect the audio cable
	the speaker cables not properly connected	properly connect the speaker cables
Hum	audio connector plug not fully pushed in	Insert plug securely
sound out(s)	loose connection	check input and output connections.

## 6. Accessories

- . RCA audio cable x 1
- . +24V power supply x 2
- . User Guide x 1

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