



RESONEX

Professional Power Amplifiers



USER MANUAL

Important Safety Precautions & Explanation of Symbols

1. Read these instructions.
2. Keep these instructions.
3. Read all warnings.
4. Follow all instructions.
5. **WARNING:** To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or 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 plug has two blades and a grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Unplug the apparatus during lightning storms or when unused for long periods of time.
12. 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.

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

The lightning flashes printed next to the OUTPUT terminals of the amplifier are intended to alert the user to the risk of hazardous energy. Output connectors that could pose a risk are marked with the lightning flash. Do not touch output terminals while amplifier power is on. Make all connections with amplifier turned off.

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 humans.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.

PREFACE

Thank you for your purchase of our professional audio equipment. Please read the manual carefully before you use the product, it will give you correct guidance, and it is useful for the equipment's normal work and extending its life. All our products are promised one-year quality warranty. Provided any product found quality defect within one year, we will be responsible for repairing or replacing.

We have always been trying to develop our professional audio equipment with high-tech, high performance and with competitive price. Up to now, we own different models, covering high, secondly, and low three levels and are able to provide high-quality equipment's for different kinds of occasions. In the process of research and development, we have been trying to inpour high-tech soul to every product, and to create high-quality equipment's. We have been adopting: ISO Quality Guarantee System To supervise every product whether it has conformed with strict and professional requirements, whether it has received perfect after-sales services.

We do that only for one purpose: we hope our customers will really benefit from our high-tech, high-performance and competitive price products, as well as good after-sales services and technical backstopping. We are always doing our best to return our customers for their support to us products, we make sure our customers feel they deserve purchasing our professional audio equipment.

Model	RNA2200	RNA2550	RNA4260	RNA4470
Channel	2	2	4	4
8 Ω Stereo Output Power	200W	550W	260W	470W
4 Ω Stereo Output Power	380W	900W	480W	910W
8 Ω Bridge Output Power	720W	1800W	950W	1600W

WARRANTY CONDITIONS

All products are warranted for a period of one year from all manufacturer's defects.

The warranty begins when the product is sold to the end-user, and no more than 12 months after the production of the unit.

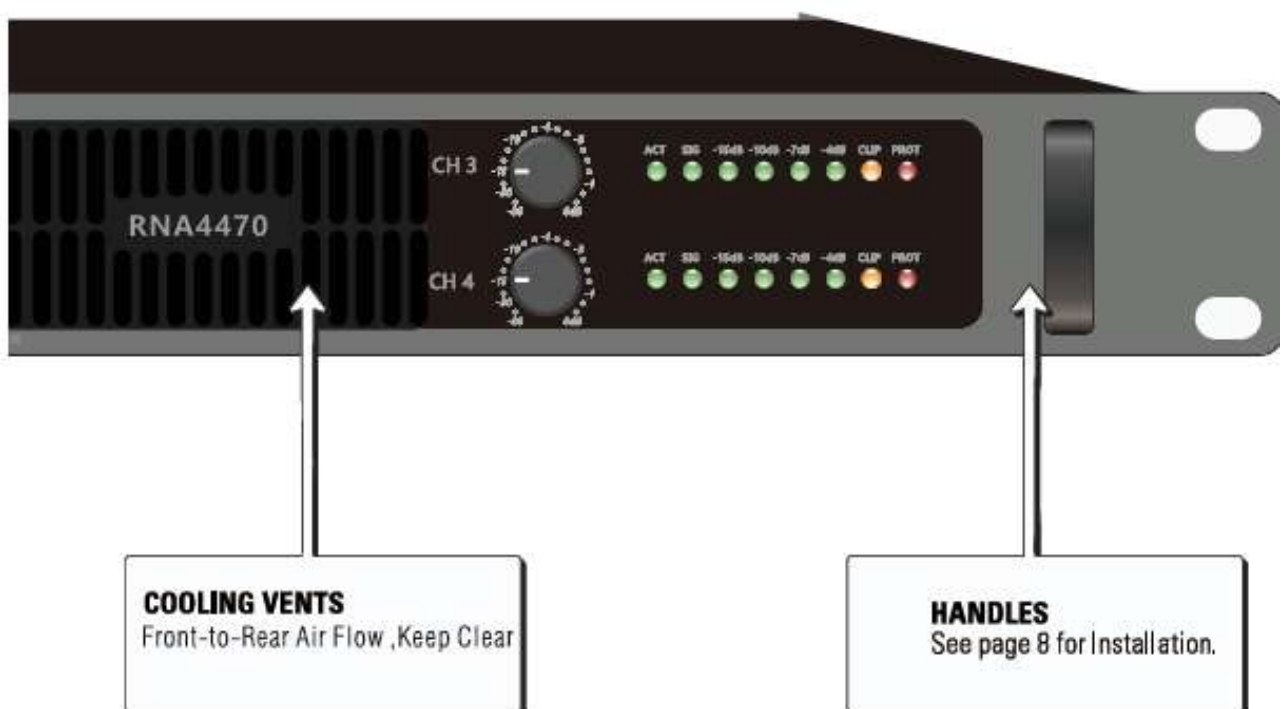
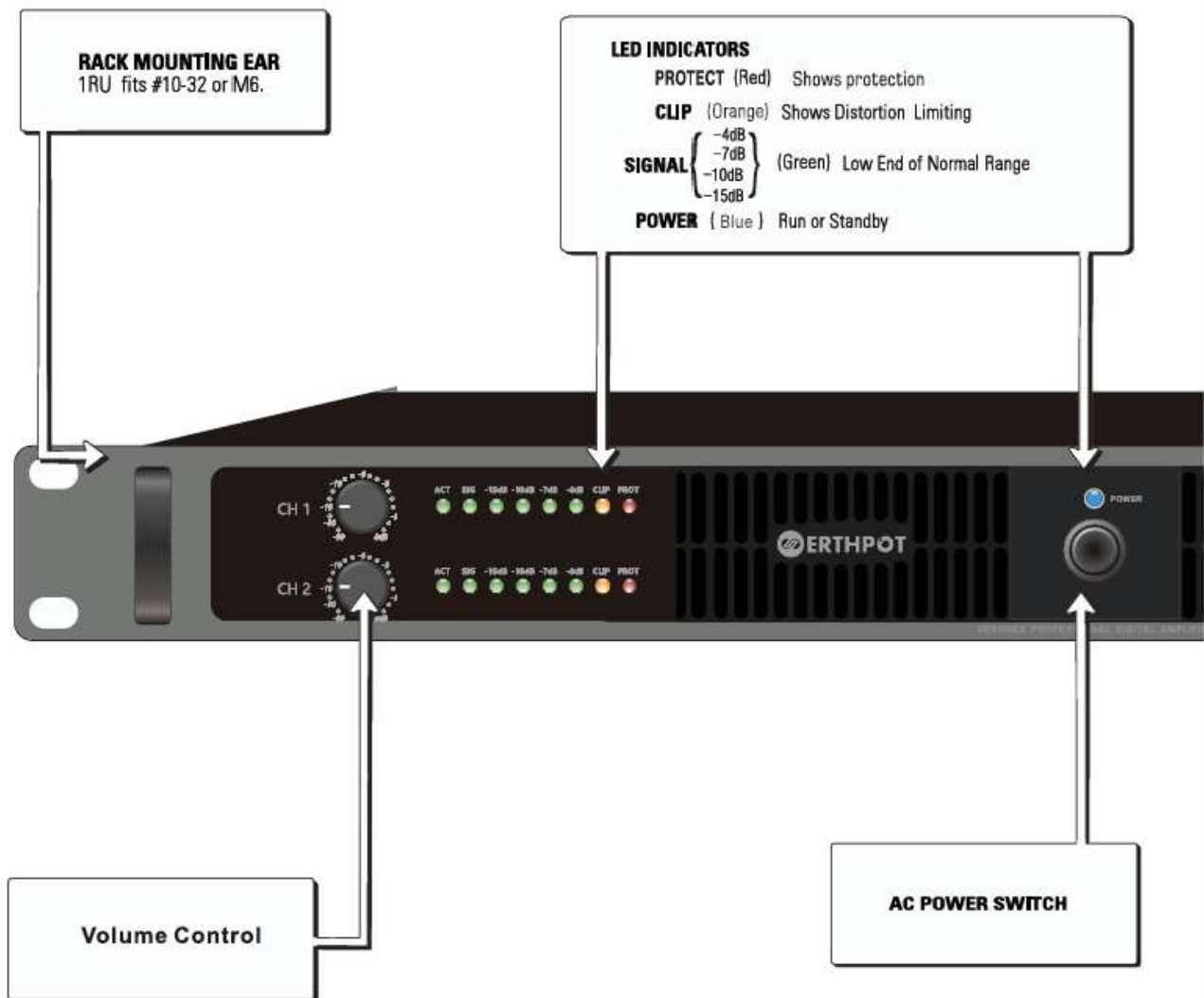
The warranty is void if there are any signs of tampering of the unit, unless authorized by an agent of in writing.

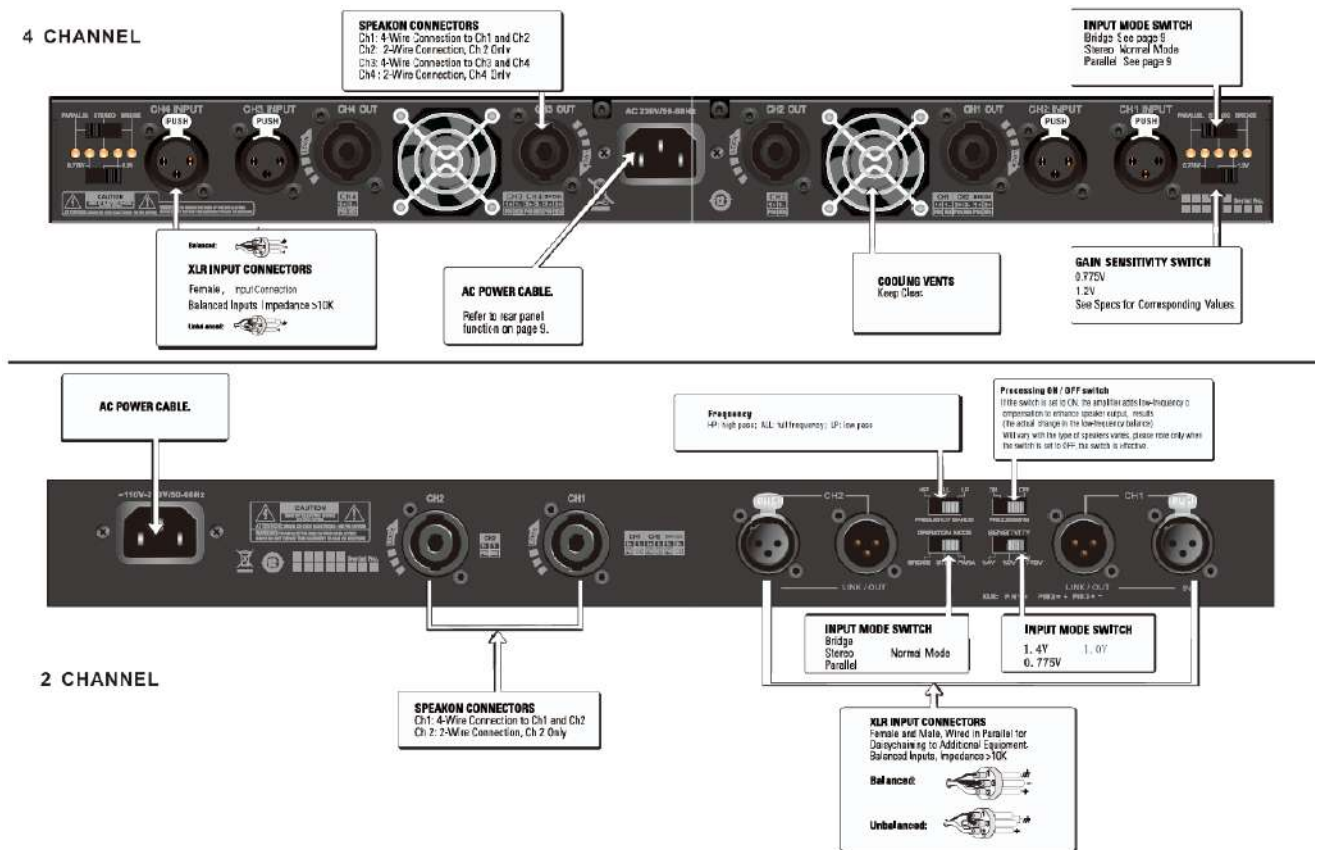
If by chance the unit were to be defective, at that point the client must pre-pay the shipment back to the warranty center with its original package.

The amplifiers have all protections but bad use can damage the amplifier and is not covered by the warranty.

The amplifier has some mechanical parts that if over used abusively is not covered by the Limited Warranty.

For any further information or question regarding the amplifier please contact your distributor or place from which you purchased this product.





FRONT PANEL FEATURES

AC power switch

- Controls all power to the amplifier. The green POWER LED should illuminate whenever Power is ON, either in Standby or Run.

Protected (red, each channel)

- Indicates that the channel is in protest mode (speakers disconnected by output relay).
- The LED glows bright red while amp is muted for any reason. This normally occurs each time the power is turned on or off. Muting at other times indicates overheating or other protective behavior.

Clip LED (orange, each channel)

- When clipping occurs, this LED flashes bright orange light. Intensity and duration is associated with the degree of clipping

-4dB LED (green, each channel)

- Channel power for this power amplifier reaches the upper limit -4dB, this LED lit to be orange for a warning that reached clipping.

-7/-10/-15dB LED (green, each channel)

- It lights up when channel power for this power amplifier is below clipping -4---15dB. This is usually the "safety" working area.

SIG LED (green, each channel)

- Display each channel signal. If there is no signal, this light still is lit; there may be interference or other abnormal situation.

Power LED (Blue)

- When power is on, the green power LED should be light up. When the amplifier is in standby, the LED will be significantly dimmed.

Gain Control

- Channel Control: can be adjust volume for each channel.

Mounting the optional handles

- The handles are packed with the required Phillips-head screws. Mount the screws through the round holes located inside the rack mounting ears.

Ventilation slots

- Amplifier gets indraft air from the right panel, out from the left panel, which will shed the heat, to avoid overheating of the rack case. When the amplifier works busy, the fan will be speed up, discharging more hot air.

REAR PANNEL FEATURES

INPUT CONNECTIONS

Precision balanced inputs offer superior hum rejection.

Female and male XLR, This XLR input is a balanced input Connect this to the output of your mixer.

INPUT MODE SWITCH, 3-POSITION: BRIDGE, STEREO, PARALLEL

Mode stereo: 2 inputs (channel 1 and 2) and 2 outputs are used.

Mode parallel: 1 input (channel 1) and 2 outputs are used.

Mode bridge: 1 input (channel 1) and 1 output are used.

INPUT SENSITIVITY SWITCH, 3-POSITION: 0.775V, 1.2V

The selector allows to choose the input sensitivity: either 0.775V, 1.2V

INPUT CONNECTIONS

Ch 1 provides 4-wire access to both channels using the standard convention: Ch 1 user 1+, 1-, and Ch2 uses 2+ and 2-.

Ch 2 provides 2-wire access to Ch 2 only, using 1+, 1-.

AC POWER CABLE AND AC VOLTAGES

This cable is plugged into the power outlet, (before you use this function, please check whether it is the rated supply voltage)

AIR ENTARNCE

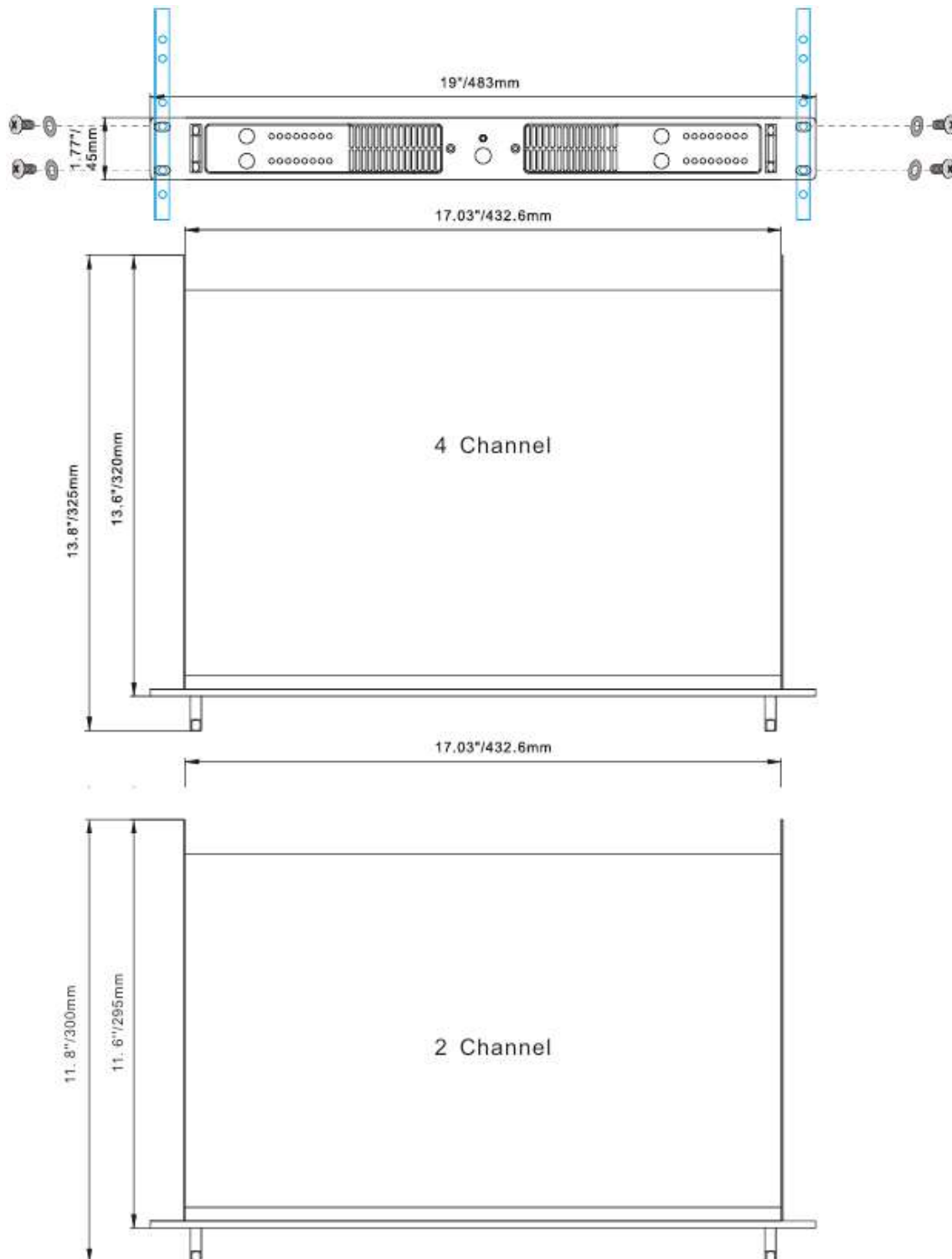
Air entrance part is for cooling. Don't obstruct it.

Rack Mounting and Dimensions

Use four screws and washers to mount the amplifier to the equipment rack rails. To use the amplifier outside a rack, attach the self-adhesive rubber feet to the bottom.

For portable, mobile, or other applications where the rack assembly may be moved, we strongly recommended supporting the rear of the amplifier.

Optional rack handles provide finger grips at each end, making lifting and setting into rack more comfortable.



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4 Stereo Output Power	380W	900W	480W	910W
8 Bridge Output Power	720W	1800W	950W	1600W
THD+N (1KHz)	0.02 - 0.05%			
Frequency Response	10Hz – 20 KHz			
S/N Rate	-100dB			
Damping Factor	>600			
Output Circuitry	D			
Input Sensitivity	0.775V 1.4V 2.8V		0.775V 1.2V	
Input Impedance	10K Ω Balance/Unbalance			
Front Panel Control	AC Switch: gain control Power (Green) Signal-4 dB/ -7dB/ -10dB/ -15dB (Green), Clip (Orange), Protect (Red)			
Rear Panel Control	Input Mode: Bridge (Red), Parallel (Yellow), Stereo (Green), Sensitivity (On)			
Input Connector	Phoenix Plug			
Output Connector	Speakon			
Cooling	2 fans, airflow from the left to the rear panel, 2-set wind speed, according to the temperature			
Product Dimension	483x295x45		483x45x320	

Power Requirements	220V/ 50~60Hz
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Do not recommended using this product in this type of extreme situation; and pls try to avoid using this type of method, which will shorten the normal life of the product!