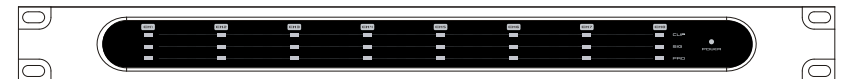


SWITCHING POWER PROFESSIONAL AMPLIFIER

User's Manual

AH 150.8



INDEX

01 SAFETY RELATED SYMBOLS	2
02 WARNING	2
03 IMPORTANT SAFETY INSTRUCTION	3
04 INTRODUCTION	4
05 FRONT PANEL	5
06 REAR PANEL	6
07 APPLICATIONS	8
08 TECHNICAL SPECIFICATINS	9

IMPORTANT!

Please read this manual carefully before operating this unit for the first time.

All rights reserved to SEIKAKU. All features and content might be changed without prior notice. Any photocopy, translation, or reproduction of part of this catalogue without written permission is forbidden. Copyright © 2009 SEIKAKU GROUP

TECHNICAL SPECIFICATIONS

		AH150.8
Output Power (100V line)	one channel drive	150W
	all channel drive	135W*8
Output Power (70V line)	one channel drive	150W
	all channel drive	135W*8
Input sensitivity		0.9-1.1V (0+/-1dBV)
Input Impedance		20k Ω (balanced) 10k Ω (unbalanced)
Frequency response		100 Hz - 15 kHz
Voltage gain (100V)		40 dB
THD+N		<0.1%
S/N rate		>95 dB
Crosstalk		>70dB
Damping factor		>200
Power output circuitry		Switching power, Class-D
Power supply		110V-120V or 220V-240V AC 50/60Hz
Protections		Short circuit, open circuit, thermal, ultrasonic and RF
Connectors		INPUT & OUTPUT: Euroblock
Controls		Front: AC switch, Input level control for each channel Rear: 70V/100V selector
Indicators		SIGNAL: green LED CLIP: red LED POWER: green LED PROTECTION: red LED PRIOR:green/red LED
Dimensions (WxHxD)		483x44x360 (mm)
Weight		5.4 kg

SAFETY RELATED SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions.



The symbol is used in the service documentation to indicate that specific component shall be only replaced by the component specified in that Documentation for safety reasons.



Protective grounding terminal.



Alternating current /voltage.



Hazardous live terminal .

ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

WARNING

• Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

• External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

• Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

• Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

• Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

• Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus.

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

Do not use this apparatus near water. Install in accordance with the manufacture-r's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.

Power Cord and Plug

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.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Cleaning

When the apparatus needs a cleaning, you can blow off dust from the apparatus with

a blower or clean with rag etc.
Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body. Clean only with dry cloth.

Servicing

Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so .

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 mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

APPLICATIONS

Inputs connections

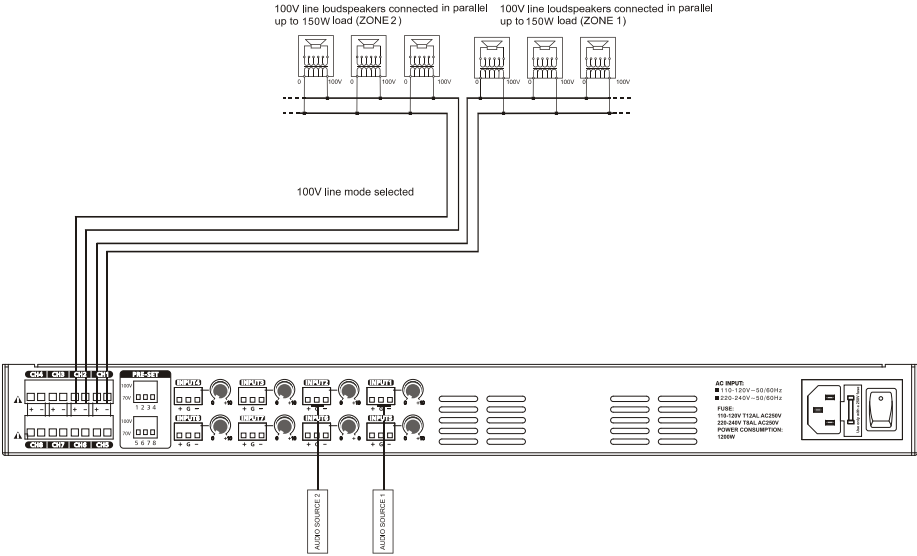
The inputs can be connected to the Euroblock socket using the female free part connectors supplied with the device.

For balanced inputs use Hot pin (+),Cold pin (-) and Ground pin (G) terminals.

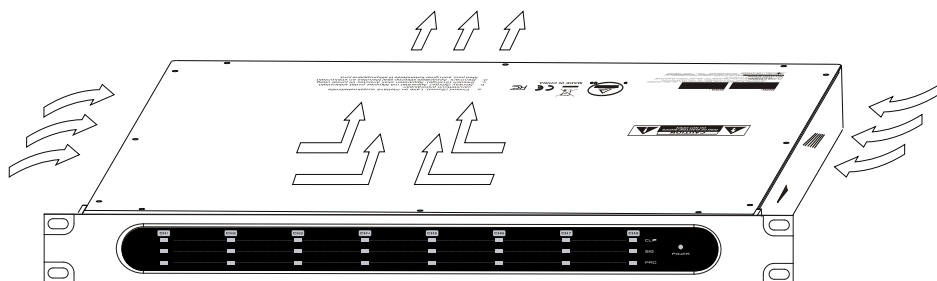
For unbalanced inputs use Hot pin (+) and Ground pin (G) only.

Speaker connections

This is a connection example. Thanks to it 8-channel design, it is possible to separate 8 zones with different audio sources or to use the same audio on all zones.



REAR PANEL



Exhaust Vents

Air is drawn from front grilles, flowing through the unit and heat sink, and then exhausted via the rear vents. Do not block or impede the air flow through these vents and keep the vent areas free of foreign materials.

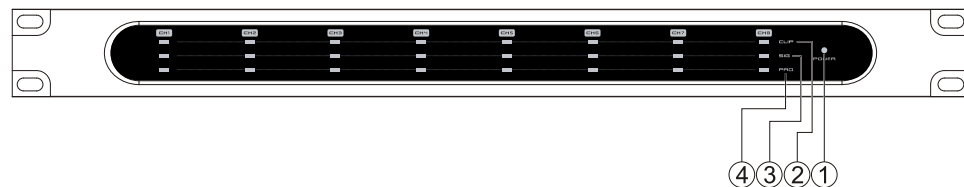
INTRODUCTION

The AH150.8 switching power professional Amplifier is designed for professional use on stage. The high-quality components and the carefully designed circuits ensure excellent audio performance and an extremely linear frequency response. In fact, the switching technology offers, together with an increased efficiency and a better control of heat dissipation than conventional power supply systems, a drastic reduction of dimensions and weight, for easier transportation and installation. This Amplifier guarantees total reliability and a trouble-free use even in the most demanding conditions. We believe the AH150.8 will provide a perfect performance, what you get is unprecedented performance at an incredibly attractive price.

Features:

- *High current switching power allowing high power output with low noise and low distortion
- *Substantial protection circuitry like thermal, short circuit, power on/off muting and therefore protection
- *Built-in limiter
- *Euroblock input and output
- *Gain controls for easy access
- *Signal, Clip protect, and Power LED indicators to monitor performance.

FRONT PANEL



① POWER LED

The Green LED light up when the amplifier power on.

② CLIP LED

This red LED lights up when the input signal is too strong. it is time to reduce input level until clip LED turns off.

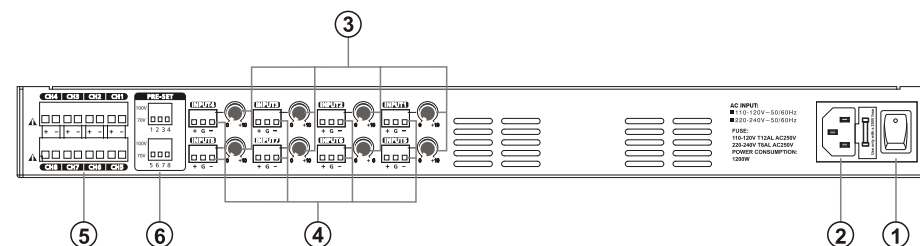
③ SIGNAL LED

These green LEDs light up when the respective channel's output signal pass through.

④ PROTECTION LED

In normal operation, the LED will not illuminate; If the LED turns red, it means the unit is in heat protection without sound output. The speaker system is actually disconnected from the amplifier outputs when this LED is red, the temperature must be reduced by good ventilation and the signal level decreased etc, if the problem is resolved. the protection output systems will deactivate automatically, and normal amplifier operation is resumed.

REAR PANEL



① Power Switch

It switches ON/OFF the unit main power.

② AC Input

Use it to connect your AH150.8 to the supplied AC cord.

③ Level Control

These volume controls allow you to adjust the volume level.

④ Euroblock input

INPUT +:balanced signal input+ or unbalanced signal input

INPUT G:signal GND

INPUT -:balanced signal input- or unbalanced signal not connect

⑤ Euroblock Output

Connect the amplifier to your speakers using these Euroblock.

⑥ Operation mode Switch

Select the operation mode (70V or 100V) on each channel moving the dip-switches to the desired position.