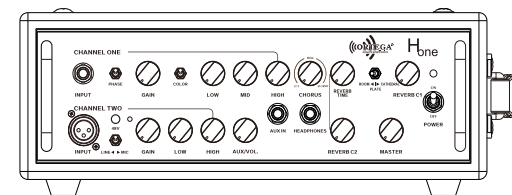




# Acoustic Amplifier Head

## Manual



**Two Channel Acoustic Amplifier Head  
H one  
100 WATT RMS**

## USING THE UNIT SAFELY

### About ⚠ WARNING and ⚠ CAUTION Notices

<b>⚠ WARNING</b>	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
<b>⚠ CAUTION</b>	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

### About the Symbols

	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The 🔥 symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ⏻ symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

### ALWAYS OBSERVE THE FOLLOWING

#### ⚠ WARNING

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.

Do not open (or modify in any way) the unit or its AC adaptor.

Do not attempt to repair the unit, or replace parts within it. Refer all servicing to your retailer, the nearest Service Center, or an authorized distributor.

Never install the unit in any of the following locations.

- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Humid; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness.

Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.

Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptors body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device.

Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Service Center, or an authorized distributor when:

- The AC adaptor, the power-supply cord, or the plug has been damaged; or
- If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

Do not force the units power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cords outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

#### ⚠ CAUTION

The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.

At regular intervals, you should unplug the AC adaptor and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.

Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

Never climb on top of, nor place heavy objects on the unit.

Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.

Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.

Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may be observed in the region in which you live.

Do not remove the speaker grille and speaker by any means. Speaker not user replaceable. Shock hazardous voltages and currents are present inside the enclosure.

## IMPORTANT NOTES

### Power Supply: Use of Batteries

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and/or damage to speakers or other devices.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

### Placement

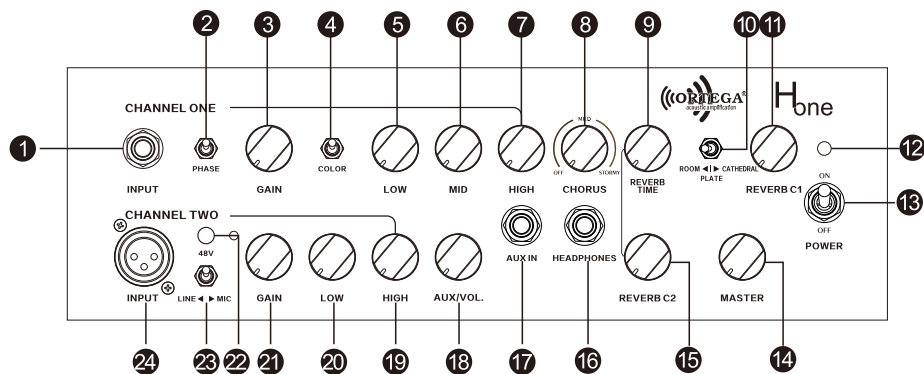
- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Do not allow rubber, vinyl, or similar materials to remain on the unit for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface. You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.

## Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

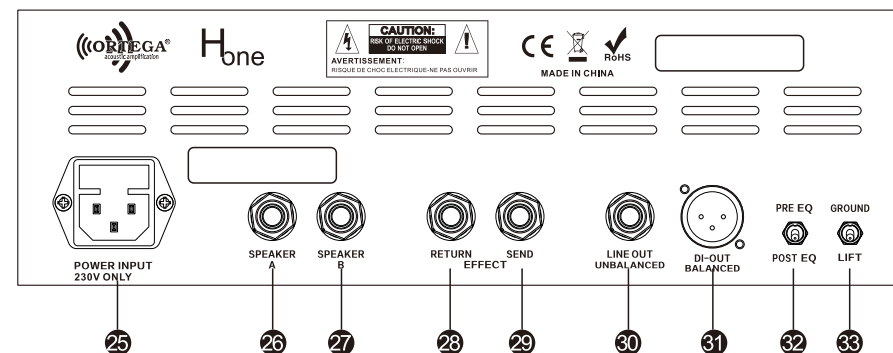
## Panel Description

### Front panel



- ①. [Input]: 1/4 inch socket for the input from external equipment
- ②. [Phase]: Phase switch
- ③. [Gain]: Controls the pre-amp volume of CH1
- ④. [Color]: Tone color filter activation switch
- ⑤. [Low]: Controls the Low of CH1
- ⑥. [Mid]: Controls the Mid of CH1
- ⑦. [High]: Controls the High of CH1
- ⑧. [Chorus]: Controls the depth of two separate chorus presets
- ⑨. [Reverb Time]: Control decay time of Reverb C2
- ⑩. [Room/Plate/Cathedral]: Controls the reverberation time of CH1, which can be long, medium or short
- ⑪. [Reverb C1]: Controls the reverb of CH1
- ⑫. Power on-Green, Protect-Red
- ⑬. [Power]: Turns amplifier ON& OFF
- ⑭. [Master]: Adjusts the overall output volumes
- ⑮. [Reverb C2]: Controls the reverb of CH2
- ⑯. [Headphones]: This output enables you to connect stereo headphones and mutes the loudspeaker
- ⑰. [Aux In]: With audio input plug: can connect your MP3/Laptop/CDplayer and so on
- ⑱. [Aux/Vol]: Both inputs [Aux In] may be used at the same time. They are stereo (TRS) inputs, however the left and right signals are mixed to mono
- ⑲. [High]: Controls the High of CH2
- ⑲. [Low]: Controls the Low of CH2
- ⑲. [Gain]: Controls pre-amp of CH2
- ⑲. The switch allows for activating and deactivating the phantom power for powering condenser microphones. When the phantom power is active, the LED is turned on
- ⑲. Corresponding function of instrument used or used MIC
- ⑲. [Input]: 1/4 jack for instrument input and MIC jack for instrument input

### Back panel



- ⑲. Operate the amplifier only at the voltage indicated on the rear panel
- ⑲. External speaker Jack A. Impedance 8 ohm
- ⑲. External speaker Jack B. Impedance 8 ohm
- ⑲. [Return]: Return as part of the effect loop operates as signal input from an external effect device (from output of the effect device). The effect can be switched on or off via foot switch. Return on its own can also be used as quasi auxiliary signal input.
- ⑲. [Send]: Send is an output to connect to an external effect device and in conjunction with return (input) forms a loop here designed as external effect loop. The effect can be switched on or off via foot switch.
- ⑲. [Line Out]: The line out supplies a pre-amp signal taken after tone-control, effects and master for forwarding to other appliances.
- ⑲. [Di Out]: Preamp-output
- ⑲. [Pre EQ/Post EQ]: Select EQ or post when plug in DI-OUT
- ⑲. [Ground Lift]: Ground lift switch to disable the ground connection. Invert the event of hums generated by the electrical network.

## Specifications

Output Power	87W, RMS, @4 ohm, 1khz, THD1%
	100W, RMS, @4 ohm, 1khz, THD10%
Input Impedance	2M2 ohm
Input Sensitivity	-30dBu
Controls	Bass, @80Hz, +/- 12dB Middle, @600Hz, +/-7dB Treble, @7Khz, +/-10dB
Microphone input sensitivity	-50dBu
Line input sensitivity	-30dBu
Line Out	0dBu/ Output Impedance 470 ohm
Di Out	-20dbu @Post (Output Impedance 470 ohm)
	0dBu @EQ
Max power consumption	180W
	Built in DSP Effector ( Chorus /Reverb ) Built in Limiter Circuit Built in Speaker Short Protection Circuit.
Dimension	370(L)X240(W)X135(H)mm
Weight	G.W: 6.562kg      N.W: 5.202kg

ORTEGA  
a brand of  
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