



ACOUSTIC ARRAY[®] MINI



OWNER'S MANUAL

FEATURES:

- Ultra Lightweight 21 lb Compact Design
- Innovative Acoustic Array[®] Speaker System
- 8" Woofer w/4 x 1.5" soft-dome Line Array
- Slanted Cabinet Design for Improved Projection
- Two Independent Preamp Channels w/Active EQ
- XLR Mic and 1/4" Instrument Inputs
- Phantom Power for Condenser Mics
- Signal Phase Reverse Switch
- Unique Contour Circuit for Quick Tonal Adjustments
- Adjustable Digital Reverb and Chorus

PRODUCT DESCRIPTION – The **ACOUSTIC ARRAY[®] MINI** represents an expansion of our Acoustic Array product line and the next generation in professional acoustic instrument amplification. The innovative speaker system features an 8" woofer and integrated 4 x 1.5" soft-dome line array element which delivers smoothness, clarity, dynamics and dispersion like no other acoustic amplifier available. This array system design reproduces the natural tone of the acoustic stringed instrument and greatly increases the horizontal dispersion and projection, providing even response across the performance area. The electronics feature our dual channel preamp design, light-weight Class D power section, and a convenient set of rear panel interfaces. All together the **ACOUSTIC ARRAY[®] MINI** offers the most pure and natural reproduction of the acoustic instrument along with ease and versatility in set up and performance.



FRONT PANEL

The **ACOUSTIC ARRAY® MINI** offers a full featured preamp design with 2 independent channels.

MIC CHANNEL

MIC INPUT – This jack is a balanced XLR microphone level input which contains an “RFI” filter (radio frequency interference) to eliminate unwanted noise. It also provides IEC P12(L) phantom power (12 volt) which works well with most phantom powered microphones found in the live sound industry. (Please consult your microphone’s specifications sheet for its phantom power requirements.) If a microphone requiring a higher voltage is to be used then an appropriate external phantom power supply can be added in line.

***NOTE** – To prevent audible pops and unwanted noises, it is recommended that you turn down the PREAMP VOLUME on the MIC channel anytime you are connecting to or disconnecting from the MIC inputs.*

CLIP LED – This LED shows the operating status of the preamp channel and EQUALIZATION stages. When this LED flashes, clipping of the preamp channel or EQUALIZATION stages is occurring or about to occur. Adjusting the PREAMP VOLUME or the relevant EQUALIZATION controls down will remove the clip condition. Adjust the final overall volume with the amp’s MASTER VOLUME.

PREAMP VOLUME – This control sets the preamp’s input volume level for the MIC input.

EQUALIZATION – The MIC channel contains an active 2 band equalizer.

- LOW:** +/- 15dB boost/cut shelving curve with a corner frequency of 75Hz
- HIGH:** +/- 15dB boost/cut shelving curve with a corner frequency of 7.5kHz

EFFECTS – The MIC channel has its own REVERB level control that allows the user to set the desired amount of Reverb effect. The decay time for the reverb effect is controlled by the REVERB TIME control in the MASTER SECTION.

INST CHANNEL

INST INPUT – This jack is a standard ¼” unbalanced instrument input. The INST input stage contains an FET input buffer circuit with an input impedance of 5 Meg ohms, a 40 Hz active high pass filter, and an “RFI” filter to eliminate unwanted noise.

CLIP LED – This LED shows the operating status of the preamp channel and EQUALIZATION stages. When this LED flashes, clipping of the preamp channel or EQUALIZATION stages is occurring or about to occur. Adjusting the PREAMP VOLUME or the relevant EQUALIZATION controls down will remove the clip condition. Adjust the final overall volume with the amp’s MASTER VOLUME.

PREAMP VOLUME – This control sets the preamp’s input volume level for the INST input.

PHASE SWITCH – This switch reverses the phase of the instrument’s signal. By reversing the phase, feedback can be reduced if caused by sympathetic vibrations between the speaker system and the instrument. Under some conditions, changing the phase can drastically improve the acoustic output from the amplifier and can improve the playability of the instrument.

CONTOUR – Our unique CONTOUR circuit offers a continuously variable pre-shaped curve that boosts lows and highs while simultaneously cutting mid frequencies. The slope is fairly gentle which keeps the tone shaping very musical. This curve covers a wide frequency range and can be used by itself or in conjunction with the EQUALIZATION controls. When the SHAPE control is all the way off (CCW) the CONTOUR response curve is completely FLAT.

EQUALIZATION – The INST channel contains an active 3 band equalizer with a sweepable parametric mid-range frequency control. The mid-range filter is typically (but not always) used to reduce or remove offending frequencies in the instrument or room response; or to boost response to achieve a particular voicing. Spend some time experimenting so that the process becomes creative as well as corrective.

- LOW:** +/- 15dB boost/cut shelving curve with a corner frequency of 75Hz
- MID GAIN:** +/- 15dB boost/cut of the variable mid frequency selected
- MID FREQ.:** Variable mid frequency from 200Hz-5kHz
- HIGH:** +/- 15dB boost/cut shelving curve with a corner frequency of 7.5kHz

EFFECTS – The INST channel has its own set of REVERB and CHORUS level controls that provide the user with the most flexibility in having either or both effects on.

- REVERB:** This control sets the level for the amount of Reverb effect.
- CHORUS:** This control sets the level for the amount of Chorus effect.

MASTER SECTION

REVERB TIME – This control adjusts the decay time of the internal digital reverb effect. The more the control is turned clockwise the longer the decay time. This provides a wide range of useable reverb effects. A good starting point for this control would be a setting around 11 o’clock to 1 o’clock. Turning this control to 0 turns off this effect entirely. The volume of this effect is controlled by the channel REVERB control.

CHORUS RATE – This control adjusts the rate and depth of the digital chorus effect. The more the control is turned clockwise, the faster the chorus rate and the shallower the depth of the effect. A good starting point for this control would be a setting around 10 o’clock to noon. Turning this control to 0 turns off this effect entirely. The volume of this effect is controlled by the channel CHORUS control.

MASTER VOLUME – This control adjusts the overall volume of the amplifier. Typically, best results are obtained when this control is operated between the 9 o’clock and 3 o’clock positions.

CUSTOM CONTROL KNOBS – We’ve included custom designed control knobs which offer marker lines for precision adjustments and a “finger positioning dip” so that the player can know the knob position by tactile feel alone.





REAR PANEL

DIRECT OUTPUT – An XLR balanced DIRECT OUTPUT is provided for connection to PA systems, recording interfaces, or external power amplifiers. Its output is the sum of both the MIC and INST channel signals and is pre-master volume/post-EQ's/post-effects to aid in sending out a “finished” mixed signal. The DIRECT OUTPUT signal ground may be connected or lifted using the PIN 1 GND/LIFT switch. This switch lifts pin 1 on the DIRECT OUTPUT to eliminate hum or buzz due to ground loops between the **ACOUSTIC ARRAY® MINI** and other equipment connected to the DIRECT OUTPUT. This output is fully protected against phantom power and may be used for driving lines of up to 300 feet.

AUX INPUT – A 1/4” stereo line level auxiliary input is provided that sums directly to the main output bus controlled by the MASTER VOLUME control. This input is ideal for practicing or performing with recorded tracks from a CD player, IPOD/IPAD, cell phone, or MP-3 player. This input is a tip-ring-sleeve type jack with built-in summing resistors that sum left and right signals when used with a stereo cable. This input will also work with a mono tip-sleeve plug. Adjust the level of the playback source to balance with the instrument’s volume.

HEAD PHONES – A 1/4” TRS jack is provided for connection to headphones for silent practice use. Do not connect this output to anything but headphones.

***NOTE** – For silent practice use, the combo’s internal speakers will need to be disconnected at the amplifier’s speaker output jack, however there is no danger in operating the amplifier without any type of speaker load connected.*

POWER AMPLIFIER – The **ACOUSTIC ARRAY® MINI** uses a state of the art, class D power amplifier design and a high frequency auto-sensing universal switch-mode power supply (SMPS) to achieve unprecedented high performance and lightweight packaging. For international use there are no voltage switches to change or jumpers to move. This SMPS senses the line voltage from 100-240 Volts and automatically configures itself for the correct voltage. The detachable mains IEC power cable with the proper plug configuration for the voltage source and country of operation is required.

SPEAKER OUTPUT – The **ACOUSTIC ARRAY® MINI** offers one 1/4” speaker output for connection to the combo’s internal speakers. The combo speaker load is 4 ohms, producing 100 watts of total output.

POWER INLET CONNECTOR AND POWER SWITCH – The **ACOUSTIC ARRAY® MINI** utilizes a rear panel power switch and power inlet connector. Use the correct mains IEC power cord required for the country where the amp is to be used. The power supply auto-senses the correct voltage from 100V to 240 volts, 50 to 60 Hz for worldwide use.

***NOTE** – There is no externally accessible AC mains (line) fuse. The internal fuse is integral to the SMPS power supply and is not user serviceable. This fuse will not fail except under very unlikely fault conditions to the SMPS. If this occurs a qualified service technician is required to correct the problem.*

SPEAKER SYSTEM DESIGN – The heart of the **ACOUSTIC ARRAY® MINI** design is the combination of an 8” woofer in a ported chamber and an integrated 4 x 1.5” neodymium soft-dome line array placed directly in front of the woofer. This allows all of the audio to project from a single point source for a more even and seamless projection of all frequencies. The response benefits of this design are unparalleled clarity, definition and detail, ideal for the complexity of the chords and tonal variations of acoustic instruments. Additionally, because of the characteristics of the array column, the mid and high frequency clarity is even, articulate and smooth – without excessive hiss or harshness. Other major benefits of this design are increased horizontal dispersion, more precise vertical pattern control and deeper projection into the performance space.



CABINET DESIGN – The **ACOUSTIC ARRAY® MINI** offers a unique cabinet shape that uses a 6-degree upward slant of the speaker baffle for optimum projection and affords easy access to the control panel. This cabinet shape is ideal for tight stages and provides superior audience coverage. The cabinet is constructed of multi-layer poplar plywood covered in an attractive dark brown/black vinyl and comes with nickel corners and a soft molded strap handle. A metal speaker grille is used with a center “pleat” to protect the line array speakers, and soft rubber feet round out the lower portion of the cabinet.



SPECIFICATIONS:

ACOUSTIC ARRAY® MINI

Rated Power: 100 watts @ 4 ohms
 Speaker System Freq. Response: 65 - 20KHz
 Dimensions: 14.5” H x 14.5” W x 12” D
 Weight: 21 lbs

Product Type:	Audio Amplifier
Product Name:	ACOUSTIC ARRAY® MINI
Model Number:	AA-MINI (all versions)
Operating Power Condition:	100~240V, 50/60 Hz
Effective Date:	12/1/2018

SAFE OPERATING REQUIREMENTS:

- Never set an amplifier on anything that will tip over or collapse under its weight.
- Provide a minimum distance of 1 inch (25.4mm) around all sides of the amplifier for sufficient ventilation. The ventilation should not be impeded by covering the amplifier's vent openings with items such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the **ACOUSTIC ARRAY® MINI** amplifier.
- This amplifier should not be exposed to dripping or splashing and no objects filled with liquids, such as vases or drinks, should be placed on this product.
- The **ACOUSTIC ARRAY® MINI** amplifier should be connected to a mains outlet (power receptacle) with a protective earth (ground) connection at all times.
- The amplifier's mains plug (power plug) is considered the disconnect device and the connection must remain accessible at all times.
- This amplifier is capable of producing sound pressure levels that may cause hearing loss.
- There are no user serviceable parts and hazardous operating voltages are present inside this unit. Always consult a qualified repair facility for service.

WARNING!

- The use and operation of this device constitutes an agreement of full release of any and all liability connected with its use. Only persons familiar with the operation of high-powered professional audio equipment should attempt to operate this device.
- In addition, by use of this device, the user agrees to hold **GENZLER® AMPLIFICATION** and its designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage, or loss resulting from such use.
- Manufacturer's sole responsibility is to provide a warranty on the specified performance of the product under normal operating conditions for a period of 3 years.

WARRANTY:

- **GENZLER® AMPLIFICATION** warrants the **ACOUSTIC ARRAY® MINI** to be free from defects in materials and workmanship for a period of 3 years from the date of purchase, when purchased from an authorized **GENZLER® AMPLIFICATION** dealer.
- This warranty does not cover normal wear and tear incurred from the normal designed use of the product.
- This warranty is effective only if a copy of the original sales receipt is presented at the time of warranty service.
- All warranty service must be performed by a **GENZLER® AMPLIFICATION** authorized service center.
- Before returning any unit for service, a returned merchandise authorization number (RMA#) must be obtained by emailing support@genzleramps.com.
- This warranty is valid in the US & Canada only. For all products sold outside the US, warranty is handled through our international dealer or distributor for that country.
- All warranty registration must be completed on our website. We request that warranty registration be completed within 10 days of purchase.
- For complete warranty information and registration visit: www.GENZLERAMPLIFICATION.com.

GENZLER® AMPLIFICATION LLC

BROOKLYN, NY 11215 U.S.A.

Email: info@genzleramps.com

Form: AA-MINI-OM-REV1