

# acoustic<sup>®</sup>

the pro's tone since 1967

## AG120S USER'S MANUAL

120 WATT STEREO ACOUSTIC  
PERFORMANCE SYSTEM



[www.acousticamplification.com](http://www.acousticamplification.com)

## IMPORTANT SAFETY INSTRUCTIONS

EXPOSURE TO HIGH NOISE LEVELS MAY CAUSE PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY TO NOISE-INDUCED HEARING LOSS BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE OVER TIME.

The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

DURATION PER DAY (HOURS)	8	6	4	3	2	1	1/2hr. or less
SOUND LEVEL (dB)	90	93	95	97	100	103	110



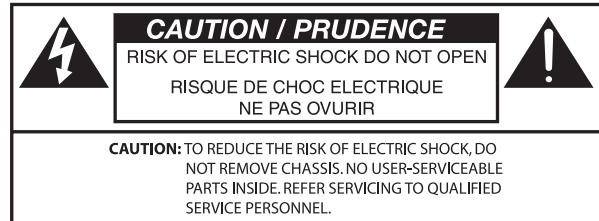
This symbol is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the unit.



Apparatus shall not be exposed to dripping or splashing. Objects filled with liquids, such as vases, shall not be placed on the apparatus.



According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Hearing protection must be worn when operating this amplification system in order to prevent permanent hearing loss.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understand all warnings listed on the operating instructions.
4. Follow all operating instructions to operate this product.
5. This product should not be used near water, i.e., bathtub, sink, swimming pool, wet basement, etc.
6. Only use dry cloth to clean this product.
7. Do not block any ventilation openings, it should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
8. Do not install this product near any heat sources such as radiators, heat registers, stoves or other 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-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.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
11. Only use attachments specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, exercise caution when moving.
13. Unplug this apparatus during lightning storms or when unused for a long period of time.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.
16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
17. When a mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. An apparatus with CLASS 1 construction shall be connected to a MAINS socket outlet with a protective grounding connection.

### FCC Statement

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..

All trademarks and registered trademarks mentioned herein are recognized as the property of their respective holders.

### California Prop 65 Warning

This product may contain a chemical[s] known to the state of California to cause cancer, birth defects, or other reproductive harm.

0906-9008



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## **THREE (3) YEAR LIMITED WARRANTY**

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Subject to the limitations set forth below, Acoustic® hereby represents and warrants that the components of this product shall be free from defects in workmanship and materials, including implied warranties of merchantability or fitness for a particular purpose, subject to normal use and service, for three (3) years to the original owner from the date of purchase.

Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss or any other incidental or consequential damages, including but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming, or reproducing any program or data stored in equipment that is used with Acoustic® products. This guarantee gives you specific legal rights. You may have other legal rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

# acoustic®

## **WELCOME AND CONGRATULATIONS!**

Congratulations on your purchase of the AG120S Acoustic Performance System. Since the founding of the Acoustic brand in California in 1967, many legendary musicians — including some of music's premier rock, jazz and funk players — have chosen Acoustic as their amplifier of choice.

The Acoustic design philosophy is "simplicity," allowing you to dial up great sound in an instant. The AG120S continues the great Acoustic tradition of simply great sound — so turn it up and discover what players have known for decades: Acoustic, the Pro's Tone since 1967™.





# AG120S USER'S MANUAL

120 WATT STEREO ACOUSTIC PERFORMANCE SYSTEM

## **TAKING CARE OF YOUR NEW AMPLIFIER**

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### **LOCATION**

- To avoid deformation, discoloration, or more serious damage, do not expose the unit to direct sunlight, high temperature sources, or excessive humidity.

### **POWER SUPPLY**

- Turn the power switch off when the AG120S is not in use.
- The amplifier (main plug) should be unplugged from the AC outlet if the AG120S will not be used for an extended period of time.
- Avoid plugging the amplifier (main plug) into an AC outlet that is also powering high consumption appliances such as electric heaters or televisions. Also avoid using multi-plug adapters since these can reduce sound quality, cause operation errors, and result in possible damage.
- To avoid damage, turn off the AG120S power switch and all related devices prior to connecting or disconnecting cables.

### **HANDLING AND TRANSPORT**

- Never apply excessive force to any parts.
- Unplug cables by gripping plugs firmly. Do not pull on cables.
- Physical shocks caused by dropping or bumping can result in serious damage.

### **CLEANING**

- Clean with a dry, soft cloth.
- A slightly damp cloth may be used to remove stubborn grime and dirt.
- Never use cleaners such as alcohol or thinner.

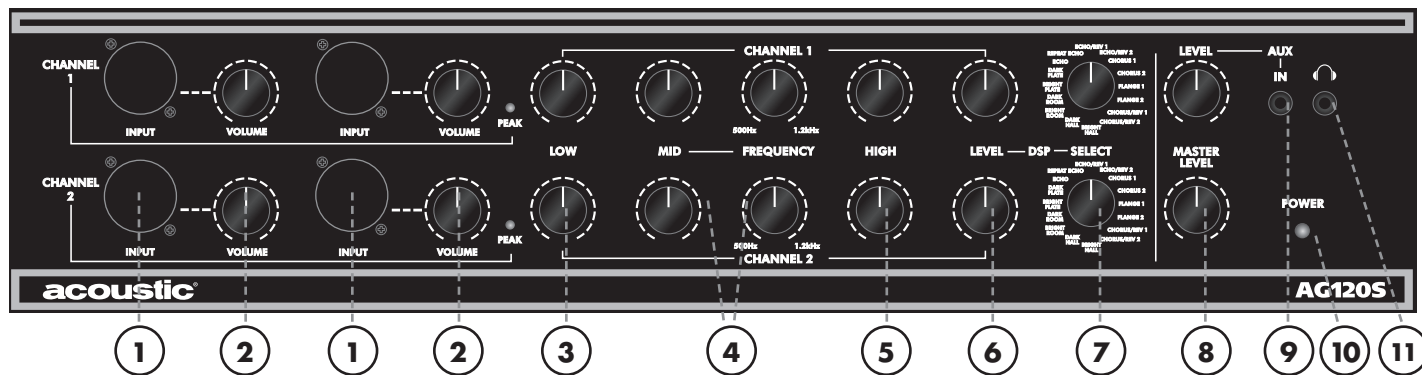
### **ELECTRICAL INTERFERENCE**

- The AG120S contains electronic circuitry that may cause interference if placed too close to radio or television receivers. If this occurs, move the AG120S further away from the affected equipment.

### **SERVICE AND MODIFICATION**

- There are no user serviceable parts in the AG120S.
- Do not attempt to open the AG120S or make any change to circuits or parts. This will void the warranty.

## FRONT PANEL



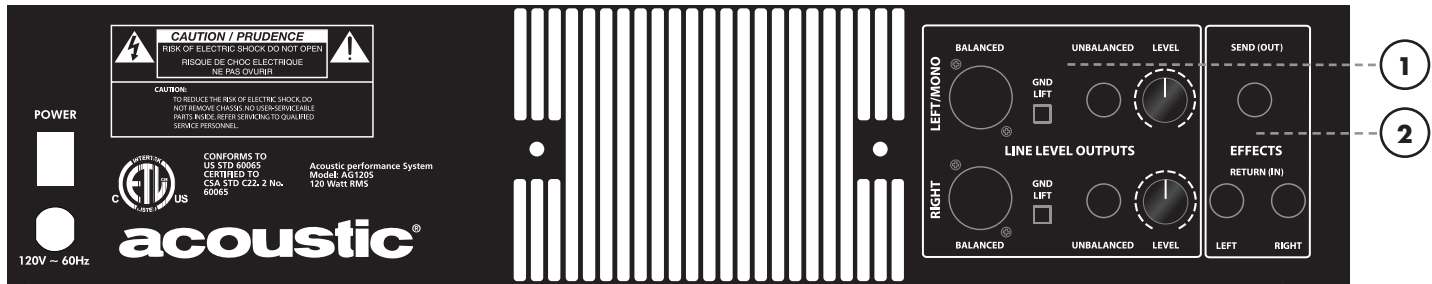
The AG120S Acoustic Performance system is designed for up to four inputs, which can be any combination of microphones and instruments. One suggested operation of the AG120S would be to use Channel 1 for vocal microphones, and Channel 2 for instruments. Its EQ and effects can be tailored for each channel independently, while the Stereo Aux Input (see #9) allows for true stereo playback of your MP3 device.

1. Dual combination balanced XLR and 1/4" 2-conductor acoustic instrument inputs. These four inputs may be used simultaneously, with each having their own volume control. You may plug an acoustic instrument and/or microphone into any input in either channel.
2. Volume controls adjust the overall loudness of the individual inputs of the amplifier. If your acoustic instrument has a preamp, you should set the volume control on your instrument at about half volume. You can then adjust the amplifier volume to your normal playing level and still have room to increase or decrease your volume as needed from the instrument.
3. Low frequency control set to boost (15 dB) or cut (-15 dB) frequencies at 80 Hz. This controls the lowest fundamental frequencies to enhance the warmth and the deep, full tones of your acoustic instrument.
4. Midrange frequency control set to boost (15 dB) or cut (-15 dB) frequencies that you can sweep between 500Hz and 1.2kHz. Moving, cutting or boosting these mid frequencies will give you maximum control over the body of your tone. This control can also be useful in eliminating acoustic feedback. It also allows you to control the definition and voice of your acoustic instrument.
5. High frequency control set to boost (15 dB) or cut (-15 dB) frequencies at 10 kHz. Increasing this will enhance the clarity and brightness of your acoustic instrument.
6. The Effect Level control is used to determine how much of the selected effect is applied to your music. Each channel has an independent Level control for the effects.
7. The Effect Select control for each channel allows you to select from one of 16 different stereo effects including reverbs, delays, true stereo choruses and combinations of the above. The 16 effects are detailed around the face of the knob. A unique and useful feature is that a different effect can be selected for Channels 1 and 2. See page 7 for effects list.
8. The Master Level controls the overall stage volume of the amplifier. Changing this level control will not affect the line out levels on the back of the amplifier, therefore will not change your signal sent to a live or recording mixing console.
9. This 1/8" 3-conductor input jack will allow you to plug in a CD, MP3 player or any other source so you can play along. This input has a separate level control which allows for fine tuning of the input signal.
10. Power LED will illuminate with a soft blue color when the amp is turned on and ready to play.
11. 1/8" headphone jack will disconnect the internal speaker when used.

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## REAR PANEL



1. The Effects loop provides a parallel loop in the signal chain for the use of external effects devices, including compressors, equalizers, etc. The Send jack provides a line level signal and may also be used as a line out to another device, such as a powered monitor speaker or additional amplifier.
2. The Stereo Line Out section is extremely versatile and includes a balanced XLR output jack and an unbalanced 1/4" jack for each of the internal power amplifiers, both of which may be used simultaneously.

The Line Out Level control is strictly for level adjustment of the Line Out signal and will not affect the stage volume of the amplifier. Conversely, the Master Level control on the front of the amplifier will not affect the Line Out level. The ground lift can be engaged to reduce noise from being induced when the AG120S is plugged into a power circuit with other devices. Use Left/Mono for a mono send or both left and right for a stereo send.

## SPECIFICATIONS

<b>MODEL:</b>	<b>AG120S</b>
<b>POWER:</b>	<b>2 X 60 Watts RMS</b>
<b>EQUALIZER:</b>	<b>Two equalization sections, one for each channel featuring 3-Band EQ with sweepable midrange</b> <b>Low</b> ±15dB@80Hz <b>Med</b> ±15dB@ Sweepable from 500Hz to 1.2kHz <b>High</b> ±15dB@10kHz
<b>CHANNELS:</b>	<b>2 - each with dual input jacks and volume controls</b>
<b>SPEAKERS:</b>	<b>Twin 8" coaxial studio monitor style</b>
<b>DIMENSIONS:</b>	<b>21.3" x 15" x 20.8"</b>
<b>WEIGHT:</b>	<b>62 lbs.</b>

## DIGITAL EFFECTS LIST

- |                |                 |               |                 |
|----------------|-----------------|---------------|-----------------|
| 1. BRIGHT HALL | 5. BRIGHT PLATE | 9. ECHO/REV1  | 13. FLANGE1     |
| 2. DARK HALL   | 6. DARK PLATE   | 10. ECHO/REV2 | 14. FLANGE2     |
| 3. BRIGHT ROOM | 7. ECHO         | 11. CHORUS1   | 15. CHORUS/REV1 |
| 4. DARK ROOM   | 8. REPEAT ECHO  | 12. CHORUS2   | 16. CHORUS/REV2 |

# acoustic®

the pro's tone since 1967

New combo amplifiers, powerful heads, toneful and durable cabinets, and lush-sounding acoustic guitar amps — to see them all, visit us at [acousticamplification.com](http://acousticamplification.com).



- Versatile acoustic stage amp
- 60 Watts
  - Dual 8" coaxial speakers & tweeters
  - 3-Band EQ with sweepable mid
  - For instruments and microphones

**AG60**



- Ideal portable rehearsal amp
- 20 Watts
  - 12" custom speaker
  - 4-Band EQ
  - Dual instrument inputs

**B20**



- Huge bass tone for larger venues
- 200 Watts
  - 15" heavy-duty speaker
  - Hi-freq driver with on/off switch
  - 6-Band EQ with notch filter
  - Passive and active inputs

**B200**



- Powerful bass combo for any venue
- 100 Watts
  - 15" heavy-duty speaker
  - 4-Band EQ with notch filter
  - Passive and active inputs

**B100**



- Massive output for stadium sound
- 600 Watts
  - 6-Band EQ and notch filter
  - Passive and active inputs
  - Direct out with level control

**B600H**



- The ultimate in tone, power and protection
- 8x10"
  - 800 Watt power handling @ 4 Ohms
  - 1/4" & Speakon inputs
  - Heavy-duty casters

**B810**