

A1000

USER'S MANUAL

100 WATT STEREO ACOUSTIC INSTRUMENT AMP



acoustic[®]
www.AcousticAmplification.com





FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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1405-10153

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IMPORTANT SAFETY INSTRUCTIONS IMPORTANTES INSTRUCTIONS DE SECURITE

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install 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.
11. Only use the attachments/accessories 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, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Respectez tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas cet appareil près de l'eau.
6. Nettoyez avec un chiffon sec.
7. Ne bloquez pas les ouvertures de ventilation. Installez-les conformément aux instructions du fabricant.
8. Ne l'installez pas près de sources de chaleur telles que des radiateurs, des ouvertures, des poêles ou d'autres appareils (incluant les amplificateurs) produisant de la chaleur.
9. Ne contournez pas le dispositif de sécurité de la fiche polarisée ou masse. Une fiche polarisée possède deux lames dont une plus large que l'autre. Une fiche de terre a deux lames et une troisième broche de masse. La lame large ou la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour le remplacement de la prise obsolète.
10. Protégez le cordon d'alimentation pour qu'il ne soit pas piétiné ou pincé, en particulier au niveau des fiches, des prises de courant et du point de sortie de l'appareil.
11. Utilisez uniquement les fixations / accessoires spécifiés par le fabricant.
12. Utilisez uniquement avec le chariot, le stand, le trépied, le support de table spécifiés par le fabricant, ou vendus avec l'appareil. Lorsque vous utilisez un chariot, soyez prudent(e) lorsque vous déplacez le chariot / l'appareil pour éviter des blessures dues au renversement.

DANGER

Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably to noise-induced hearing loss but most will lose some hearing if exposed to intense noise for a sufficient period of 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
SOUND LEVEL (dB)	90	93	95	97	100	103

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Ear plugs or protectors in the ear canal or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of inducing high sound pressure levels, such as this amplification system, be protected by hearing protectors while this unit is in operation.

DANGER

L'exposition à des niveaux élevés de bruit peut provoquer une perte permanente de l'audition. Chaque organisme humain réagit différemment quant à la perte de l'audition, mais quasiment tout le monde subit une diminution de l'acuité auditive lors d'une exposition suffisamment longue au bruit intense. Les autorités compétentes en réglementation de bruit ont défini les expositions tolérées aux niveaux de bruits:

DURE EN HEURES PAR JOUR	8	6	4	3	2	1
NIVEAU SONORE CONTINU EN dB	90	93	95	97	100	103

Selon les autorités, toute exposition dans les limites citées ci-dessus, peuvent provoquer certaines pertes d'audition. Des bouchons ou protections dans l'appareil auditif ou sur l'oreille doivent être portés lors de l'utilisation de ce système d'amplification afin de prévenir le risque de perte permanente de l'audition. Dans le cas d'expositions supérieures aux limites précitées il est recommandé, afin de se prémunir contre les expositions aux pressions acoustiques élevées potentiellement dangereuses, aux personnes exposées aux équipements capables de délivrer de telles puissances, tels ce système d'amplification en fonctionnement, de protéger l'appareil auditif.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
15. Refer all servicing to a qualified service professional. Servicing is required when the apparatus does not operate normally or has been damaged in any way, including damage to the power cord or plug, damage due to liquids spilled or objects dropped inside the unit, dropping the unit, or anything else that interrupts normal use of the unit.
16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
17. When the MAINS plug, or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. Protective Ground Terminal: The apparatus shall be connected to an AC main socket with a protective earth ground connection



13. Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.
14. Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit, comme par exemple si le cordon d'alimentation ou la fiche sont endommagés, du liquide a été renversé ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
15. Pour toutes interventions techniques s'adresser à un technicien qualifié. L'intervention technique est nécessaire lorsque l'appareil a été endommagé de n'importe quelle façon, comme par exemple si le cordon secteur ou sa fiche sont détériorés, si du liquide acoulé ou si des objets sont tombés à l'intérieur de l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
16. ATTENTION: Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité.
17. Quand La prise MAINS, au coupler, est utilisé pour la source d'alimentation électrique. Il est conseillé de garder cette prise facilement accessible.
18. Borne de terre de protection: L'appareil doit être connecté à un connecteur AC principale avec un raccordement à la terre de protection.



**CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

**ATTENTION**
RISQUE DE CHOC ELECTRIQUE,
NE PAS OUVRIR

ATTENTION: AFIN DE LIMITER LE RISQUE DE CHOC ELECTRIQUE, NE PAS ELEVER LE CHASSIS. NE CONTIENT PAS DE PIECES POUVANT ETRE REPARÉE PAR L'UTILISATEUR. CONFIER LE SERVICE APRES-VENTE AUX REPARATEURS AGREES.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS

CE SYMBOLE APOUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE DE VOLTAGE DANGEREUX NON-ISOLE A L'INTERIEUR DE CE PRODUIT QUI PEUT ETRE DE PUISSANCE SUFFISAMMENT IMPORTANTE POUR PROVOQUER UN CHOC ELECTRIQUE AUX PERSONNES



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.

CE SYMBOLE APOUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE D'INSTRUCTIONS D'UTILISATION ET DE MAINTENANCE DANS LES DOCUMENTS FOURNIS AVEC CE PRODUIT



APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS. AFIN DE REDUIRE LES RISQUE D'INCENDIE ET DE DECHARGE ELECTRIQUE, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE

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WHAT SETS THE A1000 APART

The A1000 from Acoustic® represents a paradigm shift in acoustic instrument amplification. Designed to sound great for acoustic guitars, other acoustic instruments, and vocals, it also has been engineered to provide extreme portability, due to the incorporation of a Class-D power section and neodymium speakers, resulting in 30-40% less weight than traditional amplifiers.

We put a lot of thought and effort into selecting exactly the right components and designing a product that will be easy to adjust so you can quickly find the voice of your instrument and project it beyond your personal performance space. Here are a few of the features that we put into the A1000 to make sure your sound is great, and portable -

- 2 X 50 watt stereo output for true stereo sound: more than enough power for most venues
- Two 8" NEODYMIUM coaxial design studio monitor-style speakers for extended frequency response and true stereo imaging
- Two discreet channels, each featuring dual combo XLR-1/4" inputs for use with instruments or vocals
- 3-Band EQ with sweepable mid-range on each channel so you can dial in the perfect sound
- Full-function digital effects with editable parameters and LCD readout for EACH CHANNEL!
- Auxiliary Bluetooth® connectivity; play backing tracks directly from your mobile device!
- DSP-based AUTOMATIC feedback elimination
- Effects Loop
- Two full-feature direct outputs [L/R channels] with ground lift, pre/post EQ and level
 - Connect each DI output to powered speakers to send a true stereo signal to your front of house PA!

No matter what your style of playing or choice of acoustic instrument, you will find that your A1000 will capture and project the very best of your musical voice.

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SPECIFICATIONS

Power: 2 X 50W RMS

Equalizer:

- Low $\pm 15\text{dB}$ @ 80 Hz
- Med $\pm 15\text{dB}$: 500Hz to 1.2kHz [sweepable]
- High $\pm 15\text{dB}$ @ 10kHz

Channels: 2

Inputs: 4 [2 per channel]

Digital Signal Processors [DSP]: 2

- 20 Preset programs
- 20 User programs
- Reverb, Delay, Chorus, & Flange
- Auto-Feedback Elimination Filter [12 filters, DSP based]

Speaker: Two 8" Coaxial Studio Monitor Style with Neodymium Magnets

Dimensions: 21.7"L x 20.9"H x 16.1"D

Weight: 41.9 lbs.

TAKING CARE OF YOUR NEW AMPLIFIER

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 A1000 is not in use.
- The AC cable should be unplugged from the AC outlet if the A1000 will not be used for an extended period of time.
- Avoid plugging the AC cable 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 A1000 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.

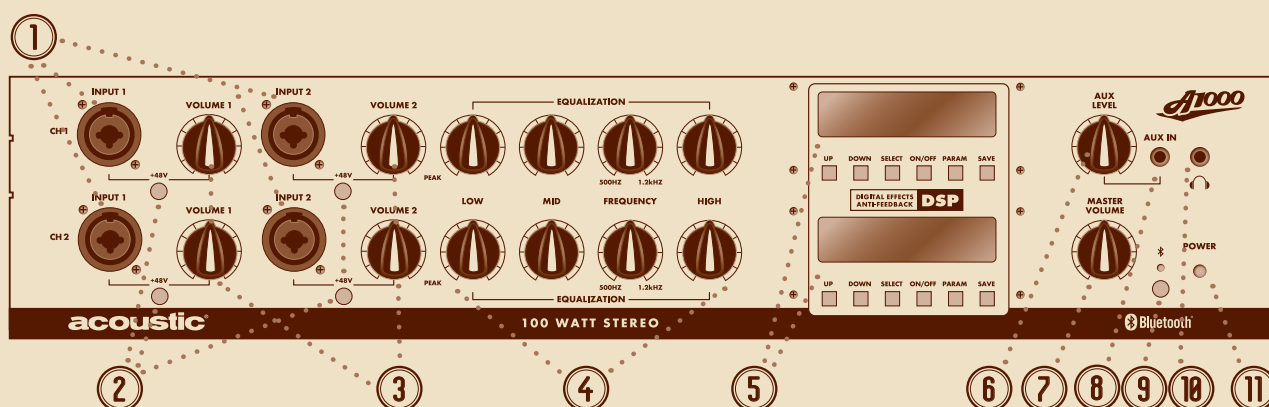
ELECTRICAL INTERFERENCE

- The A1000 contains electronic circuitry that may cause interference if placed too close to radio or television receivers. If this occurs, move the A1000 further away from the affected equipment.

SERVICE AND MODIFICATION

- There are no user serviceable parts in the A1000.
- Do not attempt to open the A1000 or make any change to circuits or parts. This will void the warranty.

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FRONT PANEL

1. **INPUTS** - combination 1/4" [2-conductor instrument cable] or XLR [3 or 4-conductor microphone]
2. **PHANTOM POWER (+48V)** - this switch enables a +48 volt DC send on PIN 1 of an XLR cable to power condenser microphones.
3. **VOLUME CONTROLS** - these adjust the overall loudness of the corresponding input. If your acoustic instrument has a preamp, you should set the Volume control on your instrument to 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.
4. **EQUALIZATION**
 - A. **LOW** - set to boost [15 dB] or cut [-15 dB] frequencies at 80 Hz. Controls the lowest fundamental frequencies to enhance the warmth and deep, full tones of your acoustic instrument.
 - B. **MIDRANGE** - set to boost [15 dB] or cut [-15 dB] adjustable from 500 Hz to 1.2 kHz. Allows you to control the definition and voice of your acoustic instrument.
 1. **FREQUENCY** - this adjusts the center frequency for the MIDRANGE EQ control above: you can sweep between 500Hz and 1.2kHz. Moving the midrange frequency and either cutting or boosting this frequency will give you maximum control over the body of your tone. It also allows you to control the definition and voice of your acoustic instrument or vocals.
 - C. **HIGH** - 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.
5. **DIGITAL EFFECTS** -
 - UP/DOWN soft buttons scroll between programs, select effect types or parameter values
 - Press UP/DOWN buttons together to activate the tuner. Press any button to exit.
 - SELECT button scrolls through individual effects within a program
 - ON/OFF button turns an individual effect on or off within a program
 - PARAM [parameter] button pages through the parameters of an effect
 - UP/DOWN buttons change the parameter value

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- **SAVE** button saves a program to one of 20 user-definable locations
 - UP/DOWN buttons select memory slots [U01 through U20]
 - Press **SAVE** a 2nd time to move to title [edit as you like]
 - Press **SAVE** to save your user program
 - Press **SELECT** or **ON/OFF** to exit out to the preset screen

In addition to the amazing digital effects, the A1000 utilizes a DSP-based AUTOMATIC feedback elimination [AFB] filter. This digital processor scans your input for any unwanted feedback, and will eliminate it. The A1000's 12 digital filters remove virtually any feedback from your signal path! The AFB filter settings can be adjusted in any DSP program and will be applied to all program settings.

6. AUX LEVEL - this controls the input level of the Aux in [#8].

7. MASTER VOLUME - this 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, and thus will not change your signal sent to a live or recording mixing console.

8. AUX IN - this 3-conductor 1/8" Aux input jack will allow you to plug in a CD, MP3 player or any other source so you can play along. To control the volume of this input, adjust the output volume of the device.

9. BLUETOOTH® - this switch activates the BLUETOOTH® auxiliary input: press and hold this switch for 3 seconds, then tether your mobile or aux device using the passcode [1967] to allow audio playback. The indicator light will let you know when the Bluetooth® is engaged.

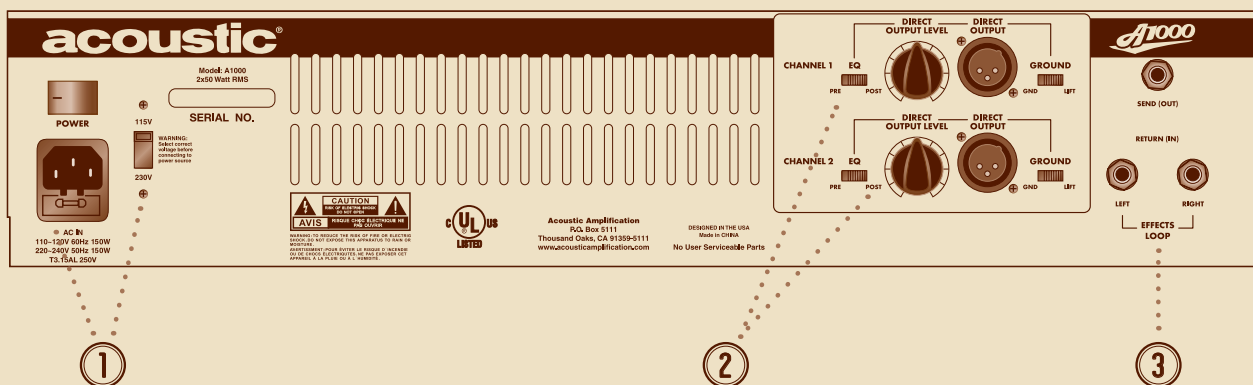
10. HEADPHONE - this 1/8" 3-conductor jack is for plugging in headphones. When used, it will disconnect the internal speaker.

11. POWER - this indicator light will illuminate when the rear panel power switch is depressed.

DSP PROGRAM PRESETS		
#	TITLE	EFFECTS INCLUDED
1	Dry No EFX	None
2	Short Room	Short reverb
3	Small Room	Small room reverb
4	Medium Room	Mid-size room reverb with early reflections
5	Large Room	Large room reverb with early reflections
6	Small Hall	Small concert hall reverb
7	Medium Hall	Mid-size concert hall reverb
8	Large Hall	Large concert hall reverb
9	Church	Giant reverb with reflection
10	Slow Chorus	Slow, rich, sweeping chorus effect
11	Lush Chorus	Thick chorus effect with more regeneration
12	Flange	Mid-depth flange effect
13	Phaser	Shallow, medium rate phaser effect
14	Slap Back	Short single-repeat delay
15	Med Delay	1/2 sec. delay
16	Long Delay	1 sec. delay
17	Chorus Verb	Slow Chorus combined with Large Hall Reverb
18	Lush Verb	Lush Chorus combined with Large Hall Reverb
19	Crazy Multi	Wide Chorus, Church Reverb, and 1.2 sec. delay
20	Vocal Multi	Vocal Plate Reverb plus 1/2 sec. delay

EDITABLE PARAMETERS	
Chorus, Flanger, Phaser:	Depth, Rate, Level, Pre-Delay Time, Feedback [Effect Level]
Reverb:	Type, Pre-Delay, Time, Level
Reverb Types:	Spring Rev, Short Room, Room, Small Hall, Large Hall, Church, Vocal Plate
Delay:	Type, Delay Time, Level
AFB Detect Mode [Global]:	Slow, Med1, Med2, Fast

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REAR PANEL

1. **POWER** - this rocker switch will illuminate with a soft amber color when the amp is turned on and ready to play.
 - A. AC LINE IN - this plug accept a standard CLASS 1 IEC grounded cable [included] to provide AC power to the amplifier.
 - B. VOLTAGE SELECTOR - used to select the input voltage level to 110/115V or 220/230V. Voltage standards vary by country. This switch is preset at the factory. Setting the power supply voltage switch to the incorrect input voltage could damage the power supply and possibly other parts of your equipment.
2. **DIRECT OUTPUT**
 - A. PRE/POST EQ SWITCH - This switch determines if your direct output signal will be effected by the front panel equalization settings. In the PRE setting, the direct signal is not effected by the front panel settings; in POST setting, the direct signal is effected by the EQ settings.
 - B. DIRECT OUTPUT LEVEL - this adjusts the overall level of the direct output.
 - C. DIRECT OUTPUT - connect a standard XLR balanced cable from this jack to provide a line-level signal to your PA system, powered speaker, or other powered output device.
 - D. GROUND LIFT - this switch disconnects pin 1 on the XLR jack, which is connected to the shield in the cable and acts as the ground point of the circuit, reducing ground-related noise.
3. **EFFECTS LOOP** - these 1/4" unbalanced send and returns allow you to run external effects before the preamp, resulting in clearer effects signal, and cleaner levels [line level vs. instrument level]. Connect the Send to your effect devices input, and the output from your device to the return. Use the LEFT return for MONO effects. Connect the Send to your effect devices input, and the output from your device to the return.

