Ai1 OWNER'S MANUAL

Thank you and congratulations on your choice of this product.

Features:
This is a full-featured *Acoustic Preamp/*DI/*Headphone Amp/*Acoustic Interface. Whether at a local open mic night or at a major concert venue, you will be able to dial in the clear natural acoustic sound and route it to the stage PA through a balanced XLR output. You can also use the **Ai1** to patch your acoustic instrument into your home theater system to play your acoustic instrument without an expensive amplifier, or just plug in a pair of headphones for private listening.

Getting Started:

As a rule of thumb for all of our products, begin with all of the controls at the mid point (12:00 o'clock) with the "**NOTCH**" and "**SHAPE**" switches "**OFF**". This is a medium gain setting with FLAT frequency response.

The "**INPUT GAIN**" control will be the first control that you will want to dial in. The "**INPUT GAIN**" is not a volume control, rather this control sets the level of amplification applied to the input signal to boost it to a useable level. The reason this is adjustable is to accommodate a wide range of pickup devices. For instance if you are using a high output active pickup system you will want to use a lower setting on the "**INPUT GAIN**" than say if you are using a passive type pickup system. You will want to use the highest "**INPUT GAIN**" setting you can without overdriving or distorting the signal. To achieve this, while playing, slowly turn the "**INPUT GAIN**" up (clockwise) until you begin to hear some distortion, then back the "**INPUT GAIN**" down (counter-clockwise) until the distortion disappears. This will give the **Ai1** the most signal to work with and the best signal to noise ratio. Once you have determined the best setting for the "**INPUT GAIN**" we recommend that you take note of this setting and also the settings on your instrument controls for future reference.

Precautions:

1) Read and follow these instructions before operating the unit.
2) Please heed all safety warnings and keep these instructions for future reference.
3) Do not use this apparatus near water or moisture.
4) Clean only with soft, dry cloth.
5) Do not install near a heat source such as radiators, hear registers, stoves, or other apparatus that produce heat.
6) Only use attachments/accessories specified by the manufacturer.
7) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.
8) Battery not included. Use AC adaptor for ultimate performance.

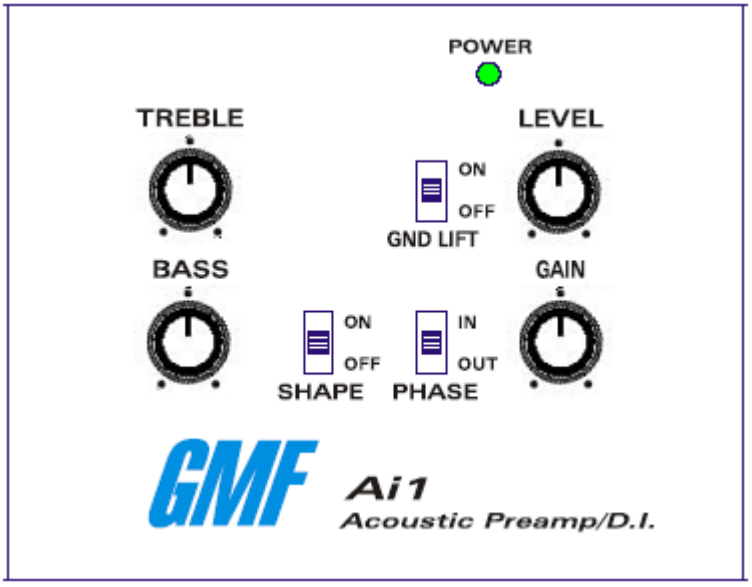
Power Requirements:

- **Battery:** Standard 9V battery (Power consumption approx. 30 mA)
- **Power Supply:** 9V DC (Regulated) , 50 mA minimum

Attention: Use a "DC" Power Supply Only! Failure to do so may damage the unit and void the warranty

Specifications:

Input:	
Connector:	Standard ¼” TS Jack
Input Impedance	1M ohm
Line In:	
Connector:	RCA, Unbalanced
Input Impedance	10K ohm
Output:	
Connector	Standard ¼” TS Jack
Output Impedance	510 ohm
DI OUT:	
Connector	XLR Balanced
Output Impedance	100 ohm
Line Out:	
Connector:	RCA, Unbalanced
Input Impedance	1K ohm
Headphone:	
Connector	1/8” TRS Stereo Jack
Output Impedance	5.1 ohm
Power Supply	9V DC - Battery, AC Adaptor
Current Draw	>40mA
Dimensions	3.86” x 3.62” x 2.07” - (98x92x52)mm (Including knobs and jacks)
Weight	.55 lbs. – 248 g



Control Elements

INPUT GAIN: Please see **Getting Started** section for a full description of the **INPUT GAIN** control.

LEVEL: This control adjusts the amount of signal sent to the **OUTPUT**, **D.I. OUT**, **LINE OUT,** and **HEADPHONE** jacks.

BASS: This is an "Active" control. The **BASS** control adjusts the amount of cut or boost in the low frequency (150HZ) range.

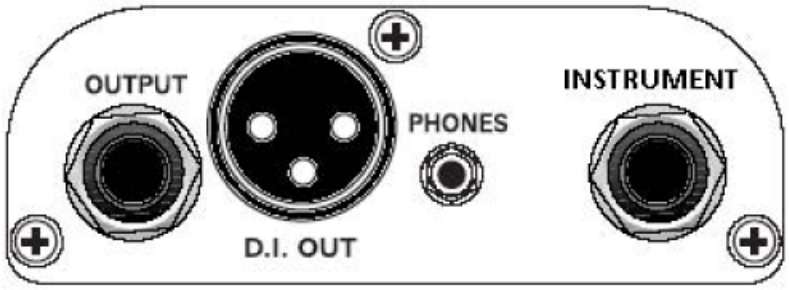
TREBLE: This is an "Active" control. The **TREBLE** control adjusts the amount of cut or boost in the high frequency (5kHZ) range.

SHAPE: **ON/OFF** - This toggle switch enables or disables the **SHAPE** control. This control is a mid dip control. In the **ON** position, the mid frequencies will be cut and the high and low frequencies will be boosted.

PHASE: Changes the polarity of the signal. Phase affects the way the guitar top is pressurized by the loudspeakers. When the signals are out of phase with each other, low-end feedback is minimized. If you experience "positive acoustic" feedback on stage, flip the phase switch from its current setting to kill the feedback. Phase will also affect the way the signal mixes live and when recording.

GND LIFT: When activated, the GND LIFT disconnects the ground connection between input and output. Depending on the grounding of the connected equipment, this can eliminate hum or ground loops.

POWER: This LED illuminates when the Ai1 is activated. The Ai1 will become active when a plug is inserted into the **INPUT** jack.

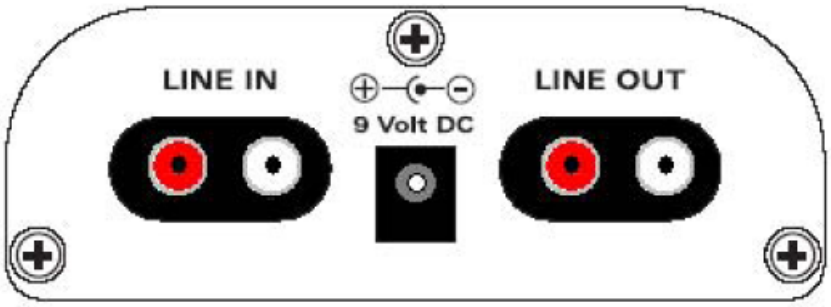


INSTRUMENT INPUT: This input is designed for all passive and active type pickup signals. When a plug is inserted, the 9V battery is switched on.
Be sure to unplug from the **GUITAR INPUT** when the **Ai1** is not in use to conserve the battery life. It is recommended that you turn down your amp or mixers input before plugging/unplugging from the **INPUT** jack. This will protect your speakers from loud pops.

PHONES: Standard 1/8" stereo jack for connection of headphones.

D.I. OUT: Plug a standard XLR cable from your PA or recording console into this low impedance balanced output. Use the "**LEVEL**" control to set the output level which matches up best with your PA or recording gear and gives you the least amount of noise.

OUTPUT: This is a standard unbalanced line level output signal. This output can be used simultaneously with the **D.I. OUT** jack for some creative signal routing. Plug a standard instrument cable from this output to a stage monitor, amp, or unbalanced Mic input on a mixer.



9VDC – This unit can run off 9V battery or you can connect a 9V adapter. The adapter must have a barrel connector with center negative. The battery may be left in or taken out when using an adapter. (To install or replace the 9V battery, simply open the easy access battery door on the bottom of the unit. Always remember to unplug your guitar cords from the pedal to conserve battery life.

LINE IN: (Stereo) This is an input for a CD/Tape player, MP3 player or other equipment with RCA type connectors. The signal plugged in here will be heard through all outputs. (**OUTPUT**, **D.I. OUT**, **LINE OUT,** and **HEADPHONE** jacks.) The LEVEL control does not affect this signal. Volume level must be controlled at the source.

LINE OUT: (Stereo) This is an output that can be use to patch your acoustic instrument into your home theater system to play your instrument without an expensive amplifier, or to patch into any other equipment that uses RCA type inputs.

BLOCK DIAGRAM