

ACKNOWLEDGMENTS

Euphonic Audio would like to thank:

**Hugh McDonald
Todd VanSelus
Lynn Keller
Michael Rhodes
Kasim Sulton
Dave Inamini
and
Leland Sklar**

*for their invaluable contributions
to the development of the iAMP®
and this manual.*

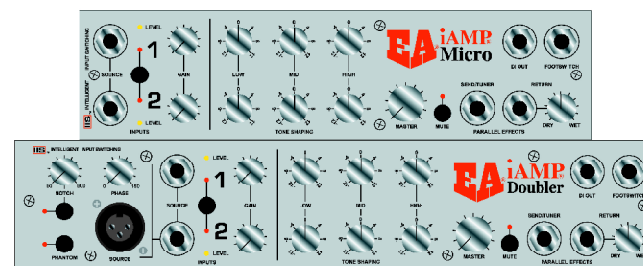
Copyright © 2007 Euphonic Audio

EUPHONIC AUDIO, INC.

TOLL-FREE (888) 894-3790

18 Newtown Blvd • Robbinsville, NJ • 08691
Fax: (732) 678-5140 • Email: info@eaamps.com

www.eaamps.com



iAMP® OPERATION MANUAL

IMPORTANT SAFETY PRECAUTIONS

WARNING: When electrical products are used, basic precautions should be followed, including:

- Read all instructions before using this product.
- Do not use this product near water, for example, near a bathtub, sink, in a wet basement, near a swimming pool or the like. Prevent the unit from getting wet from rain, snow, etc.
- Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
- This product should be located so that its position or location does not interfere with its proper ventilation. It is important that the vents on the top, bottom, and sides of the unit are allowed "to breathe".
- The iAMP® should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
- Do not leave the unit in an extremely hot environment (such as inside a car) for extended periods of time.
- The product should be serviced by qualified personnel when:
 - The power supply cord or the plug has been damaged; or
 - Objects have fallen, or liquid has been spilled into the product; or
 - The product has been exposed to rain or moisture; or
 - The product does not appear to operate normally or exhibits a marked change in performance; or
 - The product has been dropped, or the enclosure damaged.
- The product should be connected to a power supply of the type described in the operating instructions or as marked.
- If you live in area prone to frequent lightning strikes (e.g., Florida), as a precautionary measure, unplug the iAMP® from the AC power source, especially during severe thunderstorms.
- Do not attempt to service the product yourself. All servicing should be referred to qualified service personnel at Euphonic Audio, Inc.
- Use of the iAMP® may cause permanent hearing loss. Do not operate for long periods of time at a high volume level or at a volume level that is uncomfortable, particularly in a small, enclosed area. If you experience any ringing in the ears or any suspected hearing loss you should consult an audiologist.

WARRANTY SERVICE FORM

1. Complete this form.
2. Include a copy of your Bill of Sale
3. Pack unit, this form and copy of original bill of sale and ship, insured to:
Euphonic Audio
11 Revere Court
Princeton Jct., NJ 08550

Name: _____

Address: _____

Telephone Number: _____ **Email:** _____

Purchased at: _____ **Date of Purchase:** _____

Model/Serial Number: _____

Brief Description of Problem: _____

Return Shipping: COD: _____ **Prepaid Credit Card** _____

Credit Card Number: _____

Expiration Date: _____

If the billing address is not the same as the shipping address, please provide billing address:

Billing Address: _____

EA'S QUALITY CONTROL

To ensure your iAMP® meets its rigid design specifications:

- Every board is pre-tested before it is installed into the amp.
- Post assembly, each iAMP® is bench-tested before its burn-in phase.
- Each unit is burned-in (turned on and allowed to sit "in idle").
- Each unit is individually tested with a bass and speaker cabinets.

Additionally, the preamplifier section uses state-of-the-art surface mount components and construction techniques for lower noise and better reliability. These extensive and time consuming procedures guarantee that EA's production units are of a consistently high quality. Careful packaging helps ensure safe transport to the customer.

WARRANTY SERVICE INFORMATION

There is no need to register your product at time of purchase. However, you may register your product at www.eaamps.com. For warranty service you will need to have your original bill of sale.

Please follow these steps if your Amplifier or Speaker Cabinet requires repair:

1. Locate your original Bill of Sale which should include date and place of purchase.
2. Call, FAX, write or email Euphonic Audio describing the problem. Many issues can be handled without having to return the unit.
3. Pack the unit carefully, preferably in it's original shipping carton, enclose the attached warranty service form, and a copy of the Bill of Sale. Ship the unit, prepaid, to the factory. Please be sure to properly insure the unit when shipping it.
4. It is the responsibility of the purchaser to pay shipping to and from the Euphonic Audio repair facility.
5. If it is determined that the unit is under warranty, we will repair the unit as deemed appropriate (repair or replacement parts) free of charge. The unit will be returned by either COD or by prepaid credit card for actual shipping charges.
6. If it is determined that the unit is not under warranty, EA will notify you of the repair cost. Upon your approval we will return the repaired unit COD for the cost of repair, shipping and insurance.

WARNINGS USED ON THE EQUIPMENT

WARNING-ATTENTION OUTLETS WITH A THIRD PRONG GROUND ARE REQUIRED. DO NOT USE WITHOUT A GROUNDING PLUG.

WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.



The lightning flash symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within this product's enclosure that may be of sufficient magnitude to constitute risk of electric shock.

The unit contains no user serviceable components, under no circumstances should the unit be turned on or plugged in with the top cover removed.



The exclamation point is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

GROUNDING INSTRUCTIONS This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to travel, which will reduce the risk of electric shock. The product is equipped with a power cord having an equipment grounding conductor and a grounding plug. It must be plugged into an appropriate outlet that is properly installed and grounded in accordance with local codes and ordinances.

DANGER Improper connection, lack of connection, or modification of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceperson if you are in doubt as to when the product is properly grounded. Do not modify the plug provided with the product if it will not fit an outlet; instead, have a proper outlet installed.

Make sure that the speaker connections and AC power connections are both properly made before powering on the amplifier. Likewise, power off the amplifier before disconnecting the speaker connections and before removing the AC power cord from the rear connector.

A NOTE FROM
EUPHONIC AUDIO

Thank you for purchasing the EA® iAMP® Integrated Musical Instrument Amplifier. We're extremely proud of our iAMP® and pleased that you have chosen it.

You will receive many years of satisfaction from your iAMP®, which has been carefully designed to create accurate and exceptional sound from any musical instrument.

Our confidence is the result of an extensive research and development program, our innovative design philosophy, the use of the finest quality components and state of the art manufacturing. Every EA product incorporates the input from the many talented and respected musicians who use EA's other products, from the critically acclaimed Wizzy 12 to the "classic" iAMP 800 and our one-of-a-kind RUMBLE SEAT™.

LIMITED WARRANTY

The warranty for Euphonic Audio Amplifiers and Speaker Cabinets is THREE YEARS from the date of purchase. This covers defects in material and workmanship for the ORIGINAL owner.

The warranty is void under the following conditions:

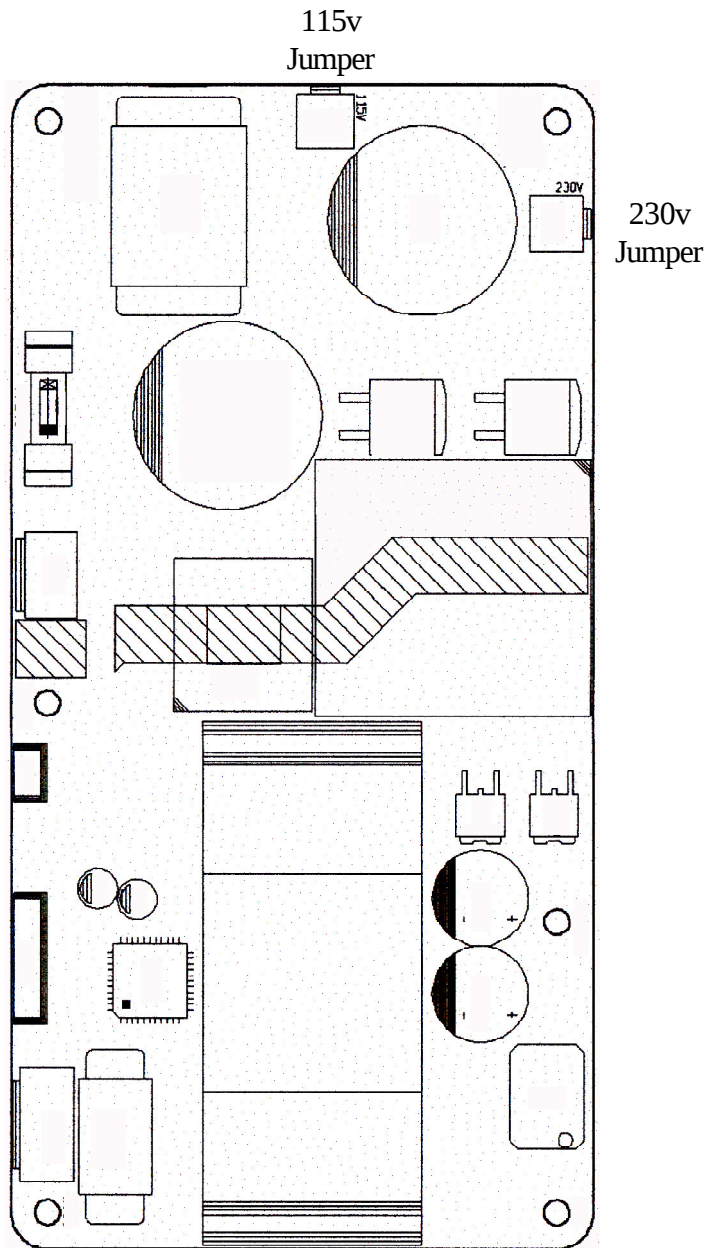
- If the unit has been damaged due to accident, improper handling, installation or operation
- If the unit has been damaged in shipping
- Abuse or misuse. This includes exceeding the physical limitations of amplifier or speaker cabinet, i.e. using excessive bass boost in the Wizzy 10.
- Unauthorized repair or attempted repair
- If the serial number has been defaced or removed

Euphonic Audio, Inc reserves the right to make such determination of the above on the basis of factory inspection.

All liability for any incidental or consequential damage for breach or any expressed or implied warranties is disclaimed and excluded here from.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental and/or consequential damages, so that the above limitation or exclusion may not apply to you. This warranty gives specific legal rights and you may also have other rights, which vary from state to state.

Changing Line Voltage on Micro and Doubler: Changing the line voltage should only be done by a qualified service technician. Using the Micro or Doubler with an incorrect line voltage will void the warranty. With the power off and the unit unplugged remove the top. Move the **blue wire** to the appropriate setting for your country.



DESIGN PHILOSOPHY / OVERVIEW

Our goal was to create extremely small yet powerful, state of the art, fully featured integrated musical instrument amplifiers whose exceptional sound and volume belies their size and weight. The 2.5 pound, 550 watt, dual channel iAMP®Micro and iAMP®Doubler might just be the perfect amps for doublers, teachers, players' riding mass transit or those that are just tired of hauling gear.

With a revolutionary new ultra lightweight, switching power supply and power amplifier, Intelligent Input Switching, 3 levels of configuration, a balanced DI, effects loop, variable high pass filter and more, in a footprint of ½ the size of a sheet of paper, the Micro is the most technically advanced, best sounding musical instrument amplifier on the market today.

With all the features and power of the Micro and additional features such as Mic In, Phantom Power, variable 180° Phase Control, and variable Notch Filter, the Doubler is designed especially for the upright or doubler. The Doubler is the perfect amp for those who use a mic with a magnetic/piezo or the electric/upright player.

Intelligent Input Switching (IIS): The Intelligent Input Switching feature of the Micro and Doubler is a microprocessor controlled input section that automatically senses how many instruments are plugged in and changes the way the amp functions. If you have one instrument and want a "normal" and "solo" option, the IIS will switch between the EQ on Channel's 1 and 2. If you switch back and forth between two instruments the IIS will allow you to access either instrument or both.

The Micro and Doubler has 3 levels of configuration. The first level represents those controls that the player uses on a daily basis. These are input level, Intelligent Input Switching, EQ, Master Volume, Wet/Dry control of the effects loop, and Muting. Additionally, on the Doubler, the Notch Filter, Phantom Power and Phase Control can be accessed via the front panel.

The second level of control, are those things that are adjusted very infrequently. Via trim pots accessible from the top of the amp, players can adjust the input gain for each channel and the DI level as well as the variable High Pass Filter

Finally, EA or an EA dealer can further configure the amp via internal jumpers. These adjustments are usually one-time changes that reflect the way in which you use the amp. The DI can be configured to be pre or post EQ. The Mute Switch can be configured to mute, in addition to the Speaker, the DI out and/or Tuner/Effects send. The Effects/Tuner send can be configured to be active on either channel 1 or on both channel 1 and channel 2. Finally, The line voltage of the Micro and Doubler can be set to 100/120 or 240.

Specifications

Model: iAMP®Micro; iAMP®Doubler

Type: Solid State, Integrated Musical Instrument Amplifier with Class D Power Amp and Switching Power Supply

Power: 550 watts RMS@4 ohms, 550 watts RMS@2 ohms, 350 watts RMS@8 ohms

Line Voltage: 85-132; 170-264 selectable

Weight: Micro: 2.25 pounds, Doubler 2.5 pounds

Country of Manufacture: United States of America

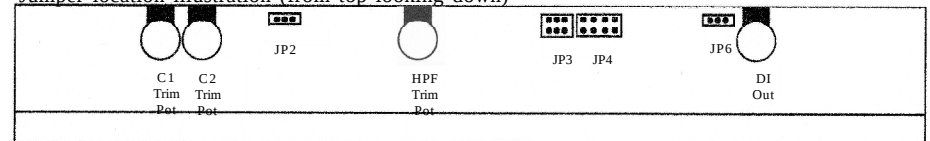
Euphonic Audio, Inc. reserves the right to modify design or specifications when deemed necessary, or when materials or procedures dictate.

A LOOK INSIDE

In order to make the iAMP Micro and Doubler the smallest and most versatile musical instrument amplifiers on the market, EA has designed in three levels of configuration/adjustment. The first two levels, the front panel and the top mounted trim pots have already been examined. The third level of configuration represents one time settings that reflect the way you play and your setup. **There are no user serviceable parts inside the iAMP, an authorized EA dealer can configure your iAMP Micro or Doubler to suit your playing needs and styles.**

Location of Jumpers and Trim Pots as viewed from the top of the Micro and Doubler

Jumper location illustration (from top looking down)



There are four internal jumpers (JP2, JP3, JP4 and JP6) that can be configured as follows:

JP2 - Assigns Channel 2 to the Effects Send circuitry. Channel 1 is always there no matter what position the jumper is in. Repositioning the jumper adds channel 2.



Jumper on JP2 pins 1 & 2 = Channels 1 & 2 (DEFAULT)

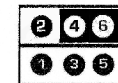


Jumper on JP2 pins 2 & 3 = Channels 1 only

JP3 - Assigns the DI signal to either pre (clean) or post (colored) EQ.

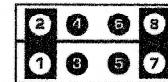


Jumper on JP3 pins 3 & 5 = DI is post EQ

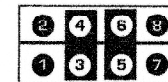


Jumper on JP3 pins 4 & 6 = DI is pre EQ (DEFAULT)

JP4 - Configures the Mute Switch. The Mute Switch always mutes the speaker out. Additionally:

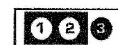


Jumper on JP4 pins 1 & 2 = Tuner/Send is ON
Jumper on JP4 pins 7 & 8 = DI is OFF (DEFAULT)

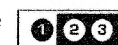


Jumper on JP4 pins 3 & 4 = Tuner/Send is OFF
Jumper on JP4 pins 5 & 6 = DI is ON

JP6 - Configures the function of the Footswitch.



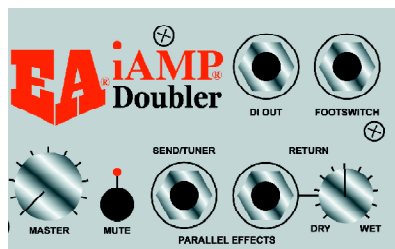
Jumper on JP6 pins 1 & 2 = For use with dual footswitch to control IIS and Muting



Jumper on JP6 pins 2 & 3 = For use with mono footswitch to control IIS (DEFAULT)

Effects Section

The default setting for the Effects/Tuner Send and Return makes it available on Channels 1 and 2 (see “A Look Inside”). Via jumper settings the Effects/Tuner Send and Return can be available on Channel 1. There is no option for Channel 2 only.



Parallel Effects/Tuner Send Jack: Connect the cord going to the effects box, pedal or tuner here.

Dry/Wet Control: Use this control to adjust the level of the signal returning from the effects chain.

Footswitch: An optional mono or dual momentary footswitch can be plugged into the footswitch jack. When using a mono footswitch you will be able to control the IIS channel switching function as you would with the front panel switch. When using a dual momentary footswitch (with a stereo plug) you can additionally control the mute function as you would with the front panel switch. The footswitch does not disable the the front panel controls; rather they continue to work in parallel and picks up where one leaves off. With a dual footswitch the “tip” controls the IIS while the “ring” controls muting functions. The configuration of the Footswitch is handled by internal jumpers. See “A Look Inside” for specific jumper settings. The factory default setting is for a mono footswitch.

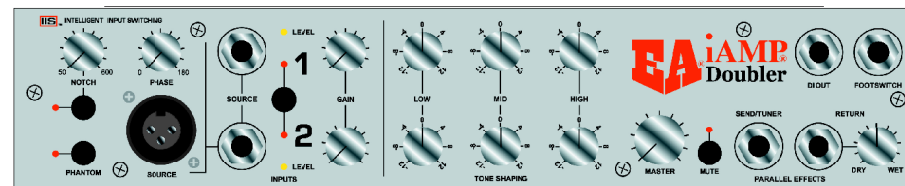
Rear Panel Functions

Power Switch: Turns unit on/off.

A/C Input: Use appropriately grounded, three-prong A/C plug.

Speaker Output: One Speakon connectors, wired 1+, 1-.

Cooling Vents: The vents on the top of your Micro or Doubler need to be kept clear.



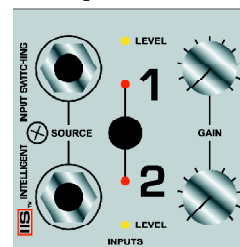
Input Section

Source: Two, 1 MEG Ohm, instrument inputs designed for maximum flexibility for all musical instrument applications. DOUBLER ONLY: One low impedance Microphone input with phantom power.

IIS or Intelligent Input Switching, which can be actuated from the front panel or with an optional footswitch, is a microprocessor controlled CIRCUIT that senses which channel is activated and allows for different combinations of channel control. With your bass plugged into channel 1, the switch will let you access the EQ on channel 1 or channel 2 (i.e. clean/solo). With basses plugged into channels 1 and 2, the IIS will toggle between Channel 1, Channel 2, or both Channels 1 and 2. Internal jumpers settings will provide Effects/Tuner send on either Channel 1 or on both Channels 1 and 2.

Level Indicator Yellow LED: The Level Indicator LED is a visual representation of your input level. The LED should illuminate moderately under normal playing conditions. Input gain can be adjusted with the Gain control knob and by the Input Trim Pots (one for each channel) located on the top of the Micro and Doubler.

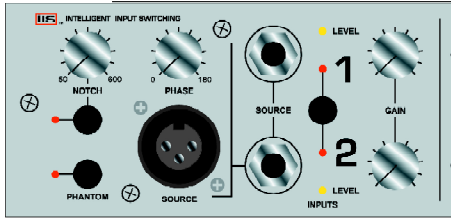
Gain Knobs: The Gain knobs allows for maximum signal level and headroom. Gain for each channel can be adjusted by the Gain knob and by the trim pot located on top of the amp.



Input Trim Pots: Located on the top, left of the Micro and Doubler are two Input Trim Pots, one for each channel. See “A Look Inside” for a diagram of the location of the Trim Pots.

Using the Gain Knobs and Input Trim Pots: The yellow LED for each channel should illuminate moderately under normal playing conditions with the gain knob about half way up. If you are unable to get the Level Indicator LED to light with the gain knobs about half way up, using a mini screwdriver, turn the corresponding Input Trim Pot clockwise to increase the gain. If under normal playing conditions the Level Indicator LED lights too easily with the Gain Knob at a low position, then, using a mini screwdriver, turn the corresponding Input Trim Pot counter clockwise to decrease the gain.

Doubler Specific Features



In addition to all of the innovative features found on the Micro, the Doubler adds some specific features designed for the upright/acoustic player.

Notch Filter: To help with feedback, the Doubler has a variable Notch Filter. The

Notch Filter attenuates the signal 15db from 50 to 600K at .05 octaves. **THE NOTCH FILTER IS ONLY AVAILABLE ON CHANNEL 2.**

Microphone Input with Phantom Power: The Doubler has a Low Impedance Microphone input with selectable 48v Phantom Power.

Phase Control: The Doubler features an innovative 180 degree sweepable phase control to adjust the phase between Channel 1 and Channel 2. This control only works when BOTH Channel 1 and Channel 2 inputs are being used.

PLEASE NOTE: If you want to use a single input and switch between 2 different EQ settings (i.e. clean/solo) you **MUST** use Channel 2 as your “Master” channel (DOUBLER ONLY).

Some Words from EA Artist Mike Arnopol

The phase control can be useful when combining a pickup and a microphone or two pickups. Anytime two different pickups or a pickup and a microphone are combined there are phase interactions between the two. This can result with degrees of cancellation at different frequencies. Typical phase controls can only reverse the phase at one position. (180 degrees) The variable phase control on the Doubler offers the flexibility to alter the phase from 0 degrees (fully counterclockwise) to 180 degrees (fully clockwise). Experimentation is necessary to find the best sound. No two pickup or microphone sources react the same when combined, but for the first time one is able to fine tune the “sweet spot”. Please note that changes in the eq settings can alter the phase relationships also. Bottomline—experiment with the eq and phase settings to find the best sound.

The Doubler offers a high quality microphone input. This can accommodate any low impedance dynamic microphone or a condenser microphone that requires phantom power. (48 volts). The phantom power switch should be in the “off” position unless using a microphone requiring phantom power.

The notch filter on channel 2 is useful in eliminating feedback, especially when using

a microphone. A notch filter attenuates a very narrow frequency range (typically not wider than one note). To use it, raise the volume on channel 2 until feedback begins to occur. Then turn on the notch switch and rotate the knob until the feedback is eliminated.

Tone Shaping

The iAMP®Micro and Doubler features a simple yet extremely musical, 3 Band EQ. The elegant design and pristine sound of the 3 band tone shaping of the Micro and Doubler allows for a totally neutral sound when set flat. Each band can add +/- 12dB of gain on each channel. The low and high are shelving and the mid control is centered around 600hz on Channel 1 and 800hz on Channel 2.

Output Section

Main Control: Adjusts the level going into the power amplifier section. The iAMP Micro and Doubler was designed to be exceptionally clean, accurate and versatile. If you want a “dirtier” overdriven-type sound, it is best to use an effects device through the Effects loop.

DI Output Level: Accessed via the trim pot on the top of the amp, DI Output Level adjusts the level of the DI, for finer control of levels going to an external mixing board or recording device. The factory setting should be fine for most applications..

Post/Pre EQ: Configured via internal jumpers, the DI EQ can be set to send either a clean (PRE) or colored (POST) signal created in the Tone Shaping section. See “A Look Inside” for specific jumper settings.

Mute Switch: Configured via internal jumpers, The Mute Switch can be configured to mute the DI and/or the Effects/Tuner Send in addition to the speaker out. The Mute Switch can be accessed via the front panel switch or with an optional footswitch. The red mute LED will illuminate if the Micro or Doubler is muted. Please note the amp is muted at power on.

DI Output Jack: Balanced DI output for sending a balanced signal directly to low noise studio equipment. The DI can be configured to either Pre (default) or Post EQ via internal jumper settings. See “A Look Inside” for specific jumper settings. **NOTE:** The DI out is a balanced output. A 1/4” stereo jack is used as opposed to a more common XLR for space considerations. To connect to an XLR input a simple adapter is needed (rather than an adapter/transformer). The 1/4” stereo jack is wired as follows: Tip=Positive, Ring=Negative, Sleeve=Common.