

## ACKNOWLEDGMENTS

*Euphonic Audio would like to thank:*

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

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

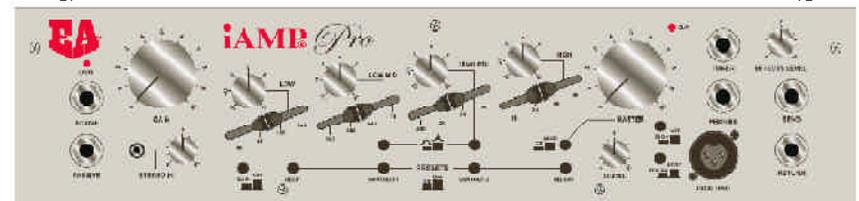
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# iAMP® OPERATION MANUAL

## 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](http://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.

## REAR PANEL FUNCTIONS

**Power Switch:** Turns unit on/off.

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

**Speaker Output:** Two Speakon connectors, wired 1+, 1-.

**Cooling Vents:** Your iAMP® is so efficient it needs no cooling fan. Although the iAMP® needs no fan, the vents on the side, back and top need to be kept clear. If you are putting your iAMP® in a rack, consider a 3-space rack for adequate ventilation.

**Line Voltage:** Internally Selectable. Input Power: 90-132VAC-50/60HZ or 190-264VAC-50/60HZ

**Internal Mains Fuse :** T10A, 250V for 230V Operation; T6.3 250V for 100/115V Operation



## DESIGN PHILOSOPHY / OVERVIEW

**OUR OBJECTIVE** was to create a compact, full-featured integrated bass amplifier with a wide bandwidth, possessing more than adequate power and exceptional “headroom” (for extra power demands, when needed), an amplifier capable of driving and extracting all the nuances from EA’s expressive line of speaker cabinets. Our overall design mandate included balancing between two competing ideals: simple to use, yet extremely flexible.

We took our cue from today’s high-end recording studio equipment, thus creating a robust integrated amp with an intuitive layout, providing today’s bassist with exceptional versatility. Notice the “organic” placement of the controls on the Front Panel. As the signal flows from left to right—from the **INPUT SECTION** to the **TONE SHAPING SECTION** to the **OUTPUT SECTION**—you adjust the parameters at each stage, corresponding to actual the signal path within the iAMP® itself.

## SPECIFICATIONS

**Model:** iAMP® PRO

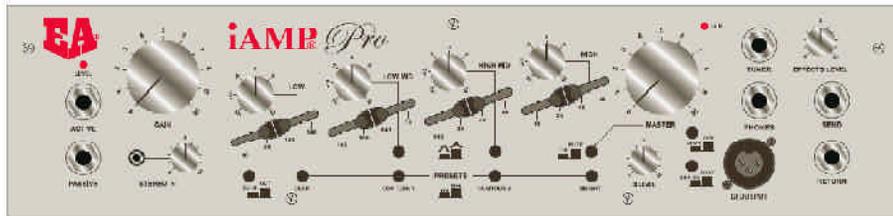
**Type:** Solid State, Integrated Musical Instrument Amplifier with Class D Power Amp

**Power:** 1,200 watts RMS @ 4 ohms, 1,200 watts RMS @ 2 ohms, 600 watts RMS @ 8 ohms, 1200 watts peak

**Weight :** 10 pounds

Assembled in the 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

B

C

D

## A - Input Section

**ACTIVE INPUT:** Low Impedance (Low Z) 10K ohms, optimized for active systems (basses with internal power pre-amps, i.e., those that use batteries).

**PASSIVE INPUT:** High Impedance (High Z) 1meg ohm, optimized for piezo, and/or passive systems as well as active basses which have low to moderate output levels.

**STEREO IN:** This feature allows the input of an outside signal other than the primary instrument such as a CD player or Drum Machine.

**LEVEL INDICATOR:** The red level indicator should just barely light during normal playing. Please note that the LEVEL INDICATOR is POST the TONE SHAPING section of the iAMP Pro. Changes to the TONE SHAPING section of the amp will effect the LEVEL INDICATOR. Once you arrive at the desired tone re-check the input GAIN as not to clip the amplifier

**GAIN CONTROL:** At the maximum setting for GAIN Control, the red LEVEL INDICATOR light barely lights. Avoid prolonged or constant lighting of the red LEVEL INDICATOR light. If your Active signal is not loud enough, switch to the Passive input jack, this will provide 6dB more signal.

## C - Output Section

**MAIN CONTROL:** Adjusts the level going into the power amplifier section. The iAMP® 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 loops (see EFFECTS SECTION)

**OUTPUT CLIP LED:** The iAMP® has a limiter that will keep the amp from sustained clipping. Lighting the LED is not dangerous. When the OUTPUT CLIP LED lights it is just an indication you are at maximum power.

**DI OUTPUT LEVEL:** Adjusts the level of the DI, for finer control of levels going to an external mixing board or recording device. Note that the ground pin of the DI XLR connector is permanently lifted from ground.

**POST/PRE EQ:** Sets the DI output to send either a clean (PRE) or colored (POST) signal—created in the TONE SHAPING SECTION, including PRESETS—to external sources.

**DI ON/OFF:** Turns DI on and off.

**XLR OUTPUT PLUG:** For sending a balanced signal directly to low noise studio equipment.

**TUNER JACK:** Allows for an external tuning device or can be used for an unbalanced Line Out signal.

**PHONES JACK:** Allows the use of headphones for silent practice. When using just the headphone jack for silent practice, be sure that the SPEAKER ON/OFF push button switch is in the OFF position. For best results we recommend the use of the lower impedance headphones, i.e. 16 ohms.

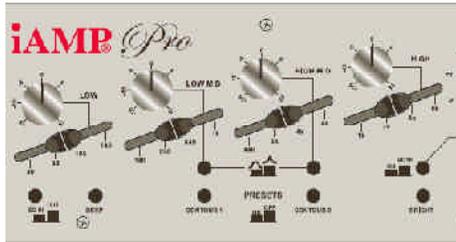
## D - Effects Section

**EFFECTS LEVEL:** Use this control to adjust the level of the signal returning from the effects chain.

**SEND JACK:** Connect the cord going to the effects box or pedal here.

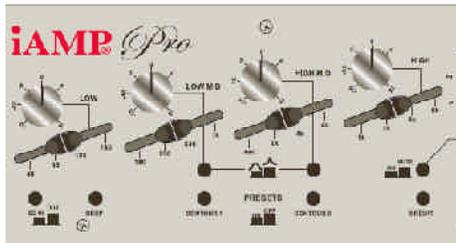
**RETURN JACK:** Connect the cord coming from the effects box or pedal here. Both the iAMP-500 and the iAMP-800 feature a Series Effects Loop. The iAMP-800 adds a parallel Effects Loop as well. The Parallel Effects Loop allows one to mix the “wet” (processed) and “dry” (unprocessed) sounds.

For a long time it has been mistaken that a solid state amp could not have that big, warm tube sound. The flexibility of the iAMP design allows that and many other sounds. Try this setting to get that fat tube amp sound.



Lo: +12dB @ 180Hz  
Lo-Mid: +5dB @ 640Hz (1/2 octave Q)  
Hi-Mid: N/A  
Hi: -12dB @ 4kHz  
Deep Preset Engaged

Here is another example for all of you “Jacophiles” out there! This setting will give you that great midrange growl and beautiful ringing harmonics that became the signature of the Jaco Pastorius bass sound.



Lo: N/A  
Lo-Mid: +10dB @ 640Hz (1/2 octave Q)  
Hi-Mid: +7dB @ 2kHz (1 octave Q)  
Hi: +2dB @ 4kHz  
All Presets Off

This is only a guide. Determine your personal settings based on your instrument and your playing style. Finally, one more quote from Bass Player Magazine:

*“The deep button’s moderate bass boost, combined with contour 2’s upper midrange dip, produced a full and clear sound that worked especially well with 4-string basses. These two presets are so well voiced I never needed to use the iAMP’s powerful parametric EQ during my gig tests. To enhance the EQ section’s intuitive feel, EA angles the frequency-selecting sliders to give a better graphic representation of their function. It’s easy to find EQ sweet spots by slowly adjusting the sliders.”*

### CONCLUSION:

The EA Tone Shaping Section is extremely powerful and versatile. Use the Tone Shaping section judiciously. Add a little bit at a time.

## D - Tone Shaping

*“The iAMP offers a lot of tone-shaping flexibility: Four bands of parametric EQ plus four well-voiced presets provide almost unlimited tone-tweaking potential.”*

*- Bass Player Magazine*

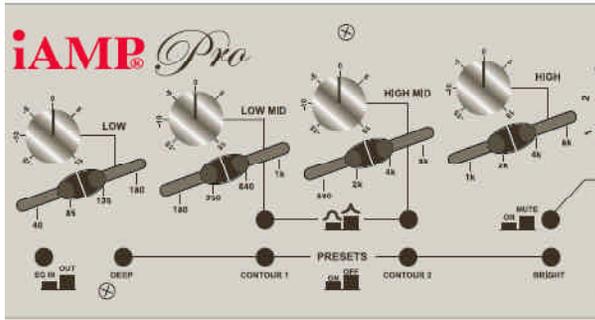
### THIS QUOTE FROM BASS PLAYER MAGAZINE MIGHT SAY IT ALL.

If you are new to the range and flexibility built into the EA Tone Shaping Section, we offer this primer to help get a good working knowledge of the iAMP Tone Shaping. Although many are used to calling this the EQ section we use the more accurate term, **“Tone Shaping”**.

We chose to call this the Tone Shaping section because that is exactly what it does. It allows you to custom contour your tone. The term “Equalizer” is used to boost or cut specific frequencies inherent in the listening environment itself, to “equalize the room.” Instead, the iAMP® provides you with extremely pliant tone controls to allow you the freedom and creativity to develop a wide variety of tones from any instrument you play through it.

That being said, it is important to remember most listening environments (clubs, auditoriums, rehearsal halls, etc.) actually enhance the frequencies below 50Hz of a bass rig, adding “room resonance” to the sound emanating from the woofer. Conversely, people in the room will absorb the higher frequencies created by the midrange and tweeters. Depending upon the timbre desired, you may wish to keep that in mind, as the sound you are hearing directly in front of your rig is not the same as the sound perceived in the listening environment. When in doubt, back off the bass a little and boost the treble a bit. That way you will be felt as well as heard

**OVERVIEW** The iAMP's tone shaping section is divided into two sections that can be used independently or together. The iAMP has Presets that allow the player to quickly dial in a great sound. There is also a section that allows more detailed tone shaping options. There are 4 presets, Deep, Contour I, Contour II and Bright. Each Preset has it's own on/off switch.



**DEEP: +6dB@50Hz, 1/2-octave bandwidth.** Use this control to fill out the bottom end that is easily lost at lower volume settings. The frequency range that this preset affects is the area perceived as the “solidity of an instrument,” or how much strength your sound has. Caution: when engaged at loud volume settings, this preset could cause permanent loudspeaker and hearing damage.

**CONTOUR I: -6dB@500Hz, 1/2-octave bandwidth.** This preset was conceived to optimize fingerstyle playing. This EQ is based upon players’ request for a “sculpted” pleasing tone—specially tailored toward an ultimate finger picking sound. It will also take the “honk” out of almost any speaker system. CONTOUR I will eliminate a portion of the lower midrange frequencies, providing wide, deep shaping. At low volume levels, you can use this preset similarly to a loudness control (which typically boost the extreme low and high frequencies).

**CONTOUR II: -8dB@750Hz, 1/2-octave bandwidth.** This preset was designed to give a great slap/pop sound. This wide filter removes the upper midrange frequencies thereby eliminating the harshness that is often present when slapping the bass. CONTOUR II makes this playing popular style of more sonically pleasing.

**BRIGHT: +8dB@7.5kHz, 1/2-octave bandwidth.** This preset emulates the high-end response of a vintage Fender® Jazz Bass pickup. It gives you a top end “snap” that dull-sounding pickup systems cannot. The tremendous amount of boost also compensates for speaker systems that do not deliver a good upper end response. It can also add sparkle to a lackluster or old set of strings.

For more detailed Tone Shaping options the player can boost or cut specific frequencies as desired. The unique design of the iAMP Tone Shaping section presents a visual representation of the effect on your sound. There are four adjustable frequency ranges:

**LO CONTROL:** +/-18dB shelving gain control, cut or boost, 40–180 Hz

**LO-MID CONTROL:** +/-18dB gain control, 180–1kHz; 1 or 1/2-octave bandwidth or “Q” switch

**HI-MID CONTROL:** +/-18dB gain control, 800-8kHz; 1 or 1/2 octave bandwidth or “Q” switch

**HI CONTROL:** +/-18dB shelving gain control, cut or boost, 1–8kHz

Each frequency range has a diagonal slider that centers the frequency to be adjusted and a rotary boost/cut control knob. Additionally, the Lo-Mid and Hi-Mid have a switch to set the bandwidth or “Q” to either 1 or 1/2-octave.

**PLEASE NOTE THAT THE TONE/FLAT SWITCH HAS NO EFFECT ON THE PRESETS.**

The iAMP is designed so that either the presets or the more detailed tone shaping option of the iAMP can be used individually or together. We suggest that if both are to be used in conjunction that first you should dial in your desired tone with the sliders and THEN enhance the sound by kicking on the presets.

Each slider, from left to right, affects a higher frequency range; stepping up like a ladder. Here is a step-by-step introduction to the infinite possibilities presented by the iAMP Tone Shaping Section. First, engage each preset button, one at a time to see if you get the tone you are looking for. If you still want something different DISENGAGE all Presets. Find the frequency you want to enhance (or diminish). To do this, estimate the frequency range that you want to adjust (Lo, Lo-Mid, Hi-Mid or Hi). Boost the Rotary control for that slider by 5–10dB. Play a note and slowly move the slider until the desired characteristic “blooms”. Now that you have isolated the frequency you can use the rotary control to enhance or diminish it. You might want to add some bottom to fill out the sound on a low volume gig. Adding midrange will help you cut through the mix. You might also want to remove some fret noise or string squeak.

Now that you’ve added or removed certain specific frequency ranges, you can engage different presets to affect the overall sound. Be cautious as each of these are additive. If you’ve boosted the bass by 15dB and then turn on the Deep button, you have boosted the bass by 21dB. This can cause serious damage to many speaker systems as well as your hearing!