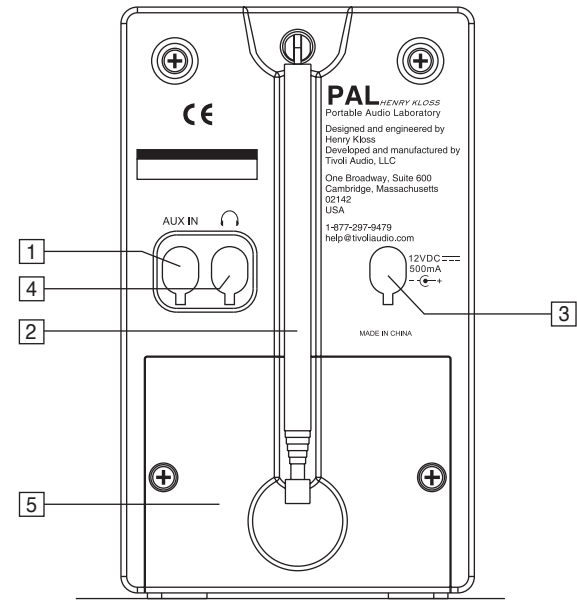


## GUIDE TO FEATURES: REAR



- AUXILIARY INPUT:** This is one of the two primary sources of input for your iPod™/MP3 or other portable audio player. This input routes the audio through the iPAL's main speaker. Just connect the iPod™/MP3 device's audio output to this input. This jack accepts a 1/8" stereo male mini plug. Note that you may need to adjust the volume level differently for an auxiliary device than the level normally used for radio listening. Keep the rubber plug inserted when this input is not in use. The second input option is wireless, via any third party FM transmitter (not included) in conjunction with the iPAL's FM tuner.
- FM ANTENNA:** When listening to FM, adjust this telescoping antenna and position it for best reception. In strong FM signal locations, reducing the antenna's length may provide better reception. When the unit is not in use or when listening to AM, keep the antenna retracted to protect it. This antenna has no effect on AM reception. For AM, rotate the iPAL itself to align the internal antenna for improved reception. Buildings made with concrete, steel, or aluminum siding will hinder reception. Household appliances, electric blankets, computers, CD players, and other electronic devices can also adversely affect reception or inject noise. If you experience this, move the product further away from the offending device, or plug it into an electrical outlet not shared by another device. Metal surfaces may hinder AM reception.
- AC/DC INPUT:** Use this input to operate the iPAL using its included iPAL-PS Tivoli Audio AC power supply or an optional 12VDC nominal, 500mA fused source. Should the power supply be damaged or misplaced, use only a like replacement. The connector is a 5.5mm/2.1mm center positive connector. Keep the rubber plug inserted when this input is not in use. When unplugging the power supply from the wall outlet, do not pull on the cord.

- HEADPHONE OUTPUT:** Connect a headset to this stereo output for private listening. The head phone volume will be controlled by the iPAL's volume knob. Connecting a pair of headphones will mute the iPAL's main speaker. This jack accepts a 1/8" stereo male mini plug. You may also record from the iPAL or use it as a high quality stereo tuner by using this output. Keep the rubber plug inserted when this output is not in use.
- BATTERY COMPARTMENT:** Stores the Nickel-Metal-Hydride battery pack. Do not load any other type of batteries in the compartment. See "Replacing the battery pack."

### About the battery pack:

The iPAL uses a sealed pack of 6 high capacity Nickel Metal Hydride (NiMH) cells. Unlike Nickel Cadmium (NiCd) batteries, NiMH batteries have no memory effect, provide a longer operating time, and do not use toxic metals. The front panel green LED serves both as a power indicator and battery power and charge status indicator thanks to the PAL's innovative Power Management System.

- Fast Charge Mode: With the iPAL turned Off but plugged in, from full discharge, the batteries will be completely charged within approximately 3.5 hours. During this period, the green LED will blink with a long off/short on cycle. The LED will turn off when the batteries are fully charged. Once the iPAL has been fully charged using the Fast Charge Mode, do not unplug it and then immediately plug it back in again, as this will restart the Fast Charge Mode even though the batteries are fully charged. Doing this repeatedly will damage the batteries. See also "Before You Begin".
- Trickle Charge Mode: With the iPAL On and plugged in, the batteries will be completely charged in approximately 24 hours. During this period, the LED will remain On continuously.
- Low Battery: With the iPAL turned On but not plugged in, as the batteries become discharged, the Power Management System will cause the green power indicator LED to blink with a short off/long on cycle, indicating the batteries are in need of being recharged. The blinking will grow faster as the batteries get closer to discharge until the iPAL shuts itself off to protect the batteries. The remaining playback time from the moment the blinking begins until the iPAL shuts off is estimated between 20 minutes and several hours. It is difficult to be more precise due to many factors including how long and how loud the radio is played, and the remaining charge left in the batteries. For instance, the iPAL will likely play longer off of the batteries at a low volume than at higher volume levels. As you use your iPAL, you will develop a better idea of how much playback time you have before recharging is necessary.

If the iPAL is turned on to FM or AM and the power indicator is off, then the batteries require recharging. However, it is normal for the radio to play for a brief period if turned on after the LED has gone out.

If the iPAL is to be used away from an AC or other power source for an extended period of time, it is wise to "top-off" the charge before use, especially if the LED is blinking. To do this, follow the procedure described under "Fast Charge Mode".

Note that the power indicator LED will blink with a different cycle during Fast Charge Mode while the batteries are charging. Because the iPAL's NiMH batteries have no memory, it is not necessary to wait until the batteries are exhausted before recharging, although recharging from complete discharge will also do no harm.

Leaving the iPAL plugged in, even when not in use, ensures the batteries will be charged when you need them. If the iPAL is not plugged in, the batteries will self-discharge as a safety measure. There is no harm in continuously operating the iPAL with the power supply.

**Note:** It may take up to 4 charge/discharge cycles before the batteries are operating at full capacity when new or left unused for several weeks.



### Replacing the battery pack:

When it comes time to replace the battery pack, lift the FM antenna up, remove the two screws that hold the battery cover in place with a small Philips-head screwdriver. Lift the battery cover off, disconnect the lead from the battery pack and replace the batteries, making sure to correctly connect the leads. Replace the battery cover by inserting the bottom lip first, then screwing the cover back on. CAUTION: To reduce the risk of fire or personal injury, use an exact replacement MA-1 battery pack, available through Tivoli Audio or its authorized dealers, and dispose of the spent battery pack according to your state/country's regulations.

### Handling the iPAL:

- The iPAL is weather resistant, but it is not weather proof. It should not be immersed in water or held under running water. It also should not be exposed to extreme temperatures.
- The iPAL is designed to be portable, but it is not indestructible. Do not drop it or subject it to strong impacts.
- Always grip the iPAL using the side indentations.
- The iPAL's weather resistant cabinet is durable, but it is not impervious to scratches.
- The iPAL's speaker is magnetically shielded, permitting use near a computer monitor or a television set.
- It is normal for the power supply to become warm during use.
- Exposing the iPAL to extended periods of direct sunlight or heat could damage the rubber coating.

### Cleaning:

To clean the iPAL, use water and a soft cloth and do not rub hard. Use a mild soap only when necessary.

### Headphones:

Avoid using headphones (not included) at high volume levels to prevent possible hearing damage. Do not wear headphones while operating a motor vehicle.

### Warranty:

Tivoli Audio manufactures its products to very high standards and we are confident our products will perform well. Accordingly, we warranty the Portable Audio Laboratory against manufacturing defects in material and workmanship to the original owner, for a period of one year from the original date of purchase.

This warranty does not extend to damage caused by improper use/installation, faulty ancillary equipment, modifications, unauthorized repair, shipping damage or loss, abuse, accidents, use on improper voltage/current, lightning or other acts of God, normal wear and tear, commercial use, scratches to exterior surface, or purchases from unauthorized dealers. Proof of purchase as evidence the unit was purchased from an authorized dealer within the warranty period may be required for warranty service. Should service be necessary, DO NOT return the product without first contacting your dealer or Tivoli Audio. This warranty is non-transferable.

With the exception of replacing the batteries, please resist the temptation to take apart your radio. There are no user serviceable parts, and any attempt at modifying or repairing your radio will void the warranty.

Tivoli Audio will not pay for costs incurred due to correction of reception problems, elimination of externally generated noise/static, loss of time, inconvenience, loss of use of your product, or damaged caused by this product.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties or the exclusion of consequential damages, therefore, these restrictions may not apply to you.

If you purchased an extended warranty from your dealer and service is required after the manufacturer's warranty has expired, you should contact your dealer to obtain service.

Please complete and return the enclosed card within 30 days of purchase to register your product for warranty coverage, or you may register on-line at: [www.tivoliaudio.com](http://www.tivoliaudio.com)

For Service outside of the USA, please contact your local distributor.

### SPECIFICATIONS

<b>Model:</b>	<b>Portable Audio Laboratory (iPAL)™</b>
Type:	Portable, weather resistant, portable audio playback system and AM/FM radio
Driver:	1 x 2.5" treated, magnetically shielded, full range driver
Power:	12VDC nominal - 15VDC maximum, 500mA
Battery Pack:	Model MA-1, NiMH, 7.2V, 1200mAh
Battery Current:	500mA
AC Adaptor:	Model PAL-PS: UL: 120V-60Hz, 18W, 12VDC, 500mA, 6VA CE: 230V-50Hz, 15W, 12VDC, 500mA, 6VA 3 11/16"W x 6 1/4"H x 3 7/8"D
Dimensions:	
Weight:	2lbs

All specifications subject to change without notice.

Tivoli Audio reserves the right to make product changes without notice.

Tivoli Audio, the Tivoli Audio logo, iPAL and The Henry Kloss Portable Audio Laboratory are trademarks of Tivoli Audio, LLC. iPod and iPod MINI are trademarks of Apple Computer, Inc.

**For more information about other exciting audio products by Tivoli Audio, please visit our website or contact us directly:**

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Cambridge, Massachusetts 02142  
Tel: 877-297-9479  
[www.tivoliaudio.com](http://www.tivoliaudio.com)

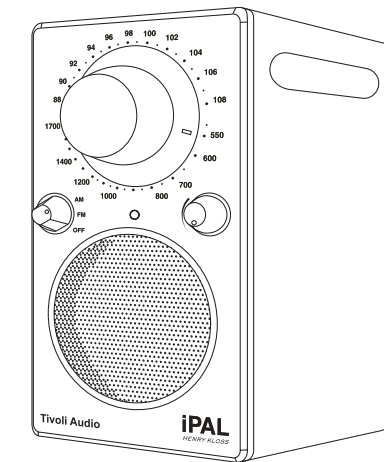
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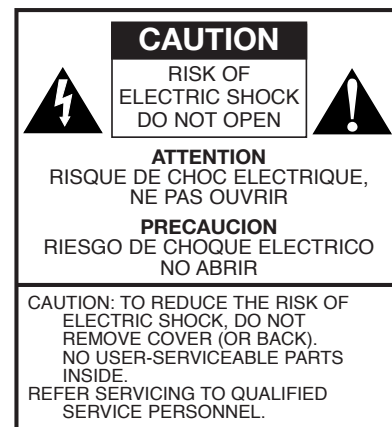


## OWNER'S MANUAL

# Portable Audio Laboratory (iPAL)



# Tivoli Audio®



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



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

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 if the 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) Operate this product only from the type of power source indicated on the rear panel. For products using an external power supply, use an exact replacement if lost or damaged. For products operating from battery power, refer to the user manual.

16) Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled or objects have fallen into the product.
- If the product has been exposed to water or rain.
- If the product does not operate normally by following the operating instructions.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinctive change in performance.

17) When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer.

18) Upon completion of any service, ask the service technician to perform safety checks to confirm the product is in proper operating condition.

19) This product has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with 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 product on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antennas
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

20) Keep this product a safe distance away from naked flame, such as a lit candle.

21) Do not expose this product to splashing or dripping. Objects containing liquid, such as vases or drinking glasses, should not be placed on top of this product.

22) The recommended operating temperature range is 5 degrees C to 40 degrees C (41-104 degrees F).

23) The 12VDC input is suited for operating this product in a boat or camper using an optional 12VDC, 1A fused adaptor.

## iPAL INSTRUCTIONS

Congratulations on your purchase of a truly unique entertainment product. We believe the rechargeable and weather resistant Portable Audio Laboratory (iPAL) is one of the finest portable audio products on the market. It is sure to enhance your iPOD™/MP3 and radio listening experiences at home or on the go.

We know you are eager to use your new iPAL, but please take a moment to fully read this owner's manual and accompanying Safety Instructions in order to take full advantage of your iPAL.

The iPAL is the first truly portable, rechargeable audio system for the iPOD™ and iPOD™ Mini, and includes our acclaimed Henry Kloss AM/FM tuner. Capabilities include wired or wireless playback, and a power choice of regular AC, 12VDC, or extended playback battery system. If you have any questions, do not hesitate to contact your dealer or Tivoli Audio directly. **It is a good idea to save the carton and original packing should you ever need to ship your radio, as shipping damage is not covered by the factory warranty.**

On behalf of all of us, thank you for choosing Tivoli Audio, and enjoy your new iPAL!

### About Tivoli Audio:

Tivoli Audio was started by Tom DeVesto with the goal of bringing simple to use, high-quality audio products to the consumer at reasonable prices. His long professional association with Henry Kloss includes co-founding Cambridge SoundWorks\*. As the CEO and head of research and development at his former company, Tom was responsible for many of the best-selling home entertainment and multi-media products on the market today. He also held senior management positions in product development for both Advent and Kloss Video. Tom is uniquely qualified to introduce Henry Kloss' designs.

Portable Audio Laboratory designer Henry Kloss (1929-2002) began his long love affair with audio back in the early 1950's when, as a student at M.I.T., he began building speaker enclosures for fellow students who wanted to exploit the sound of live FM broadcasts of the Boston Symphony Orchestra. With encouragement from the M.I.T. lab staff and Major Edwin Armstrong, the inventor of FM, he co-founded Acoustic Research in 1952. Here, Henry helped develop the revolutionary AR1 acoustic suspension loudspeaker which forever changed the way audio was reproduced. In 1957 he went on to co-found KLH where he introduced audio enthusiasts to the Model Six loudspeaker, Model Eight FM table radio, and Model 11 portable phonograph. Ten years later he founded Advent where, along with great sounding speakers, he produced one of the first projection TVs (which he won an Emmy for) and one of the first consumer cassette decks with Dolby B\*\* noise reduction. Kloss Video entered the picture in 1977. After Kloss Video, Henry co-founded Cambridge SoundWorks in 1988 along with long time associate Tom DeVesto, bringing factory-direct savings in hi-fi and producing the number-one selling multi-media speakers. In 2000, at the age of 70, Henry emerged from retirement to once again team-up with DeVesto to produce the critically acclaimed Model One mono table radio.

\*Cambridge SoundWorks is a registered trademark of Creative Technology, Singapore.

\*\*Dolby B is a registered trademark of Dolby Labs, Inc.

### Packed with your iPAL you should find:

- 1 AC power supply
- 1 Nickel Metal Hydride battery pack (installed)
- 1 warranty registration card
- 1 3.5mm to 3.5mm mini-plug audio cable

Please contact your dealer or Tivoli Audio if any of these items are missing.

Tivoli Audio  
One Broadway, Suite 600  
Cambridge, MA 02142  
1.877.297.9479  
www.tivoliaudio.com

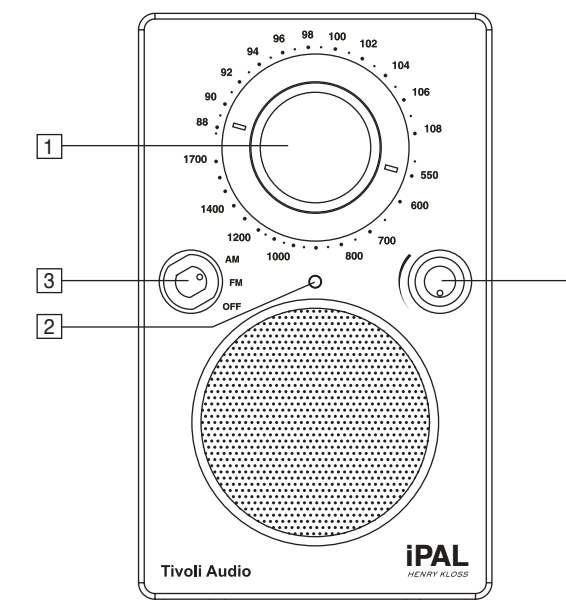
### Before you begin:

For your safety, the iPAL is shipped from the factory with partially charged batteries. It is normal for the iPAL to play straight out of the box, however, it is good practice to fully charge the unit with the following procedure: With the unit off, connect the power supply to the iPAL and plug it into a wall outlet to charge the batteries. (See "Fast Charge Mode").

Like many rechargeable devices, there may be a delay before the LED starts to blink when the iPAL is brand new and first plugged in, or when left unused for several weeks. This is a feature of the Power Management System designed to protect the batteries from damage. Should you experience this, you may "jump start" the "Fast Charge Mode" by playing the iPAL (while plugged in) for approximately 2-3 hours and then turning it off (but still plugged in). The green LED should begin to flash at that time indicating Fast Charge Mode is active. In order to complete the charge cycle, leave the iPAL plugged in for an additional 4-5 hours even if the LED has stopped blinking.

Bear in mind it may take up to 4 charge/discharge cycles before the batteries are operating at full capacity when the iPAL is new or has been unused for several weeks. Leaving the iPAL plugged in even when not in use ensures the batteries will be charged when you need it. If the iPAL is not plugged in, the batteries will self-discharge as a safety measure. There is also no harm in playing the iPAL continuously while plugged in.

### GUIDE TO FEATURES: FRONT



- TUNING DIAL:** Turn the analog dial to the right or to the left to change the FM and AM frequency range. The 5:1 tuning gear ratio provides easy, accurate tuning. The FM tuner's Automatic Frequency Control (AFC) locks on to the center of the station for lowest distortion and best reception.
- POWER INDICATOR:** Indicates when the unit is on as well as the charging mode and battery status. See the section marked "About the battery pack".
- SOURCE KNOB:** Turn the knob 1 click up to select the FM band or 2 clicks up to select the AM band.
- VOLUME:** Turn the volume knob up to increase the volume or down to decrease the volume of the iPAL's speaker. Since the iPAL is portable, please be considerate of others around you when increasing the volume level. This knob will also control the level of headphones (not included) when connected.

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