

VACUUM TUBE AMPLIFIER

A-165



USER MANUAL

Manual Rev 1.1 2016

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Preface

Thank you for purchasing the A-165 as part of your music entertainment system. The engineers and designers at Aeron have spent countless hours of listening and testing to create a Hybrid Integrated Amplifier of the highest caliber for music reproduction. The A-165 has been designed to provide you many years of playback.

Before use we encourage you to please read this manual thoroughly to properly acquaint yourself with its features. We hope you enjoy listening to Aeron product as much as we have had the pride that we have taken in manufacturing this fine receiver for your listening pleasure.

If you have any questions regarding the operational functions, contact your dealer or distributor for assistance.

Thank you for choosing AERON for your audio experience!

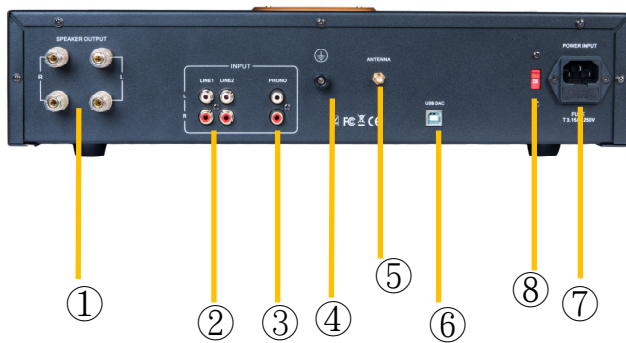
Illustrations

Front Panel



1. Power switch/indicator. Press in to turn on the power. Press again to turn off.
2. Input Selector (LINE, Wireless, USB DAC, Phono)
3. VU Meter
4. Volume Control
5. Headphone Output
6. IR Receiver

Rear Panel



1. Right & Left Speaker Output
2. LINE Input (for CD Player, Tuner, TV, DVD etc)
3. Phono Input (for Turntables)
4. GND for Phono Input
5. Antenna for Wireless Receiver
6. USB DAC Input (Digital-to-Analogue Conversion)
7. IEC AV LINE CORD Input Connection Port
8. AC Voltage Selector

Safety Notices

1. Heed all warnings and follow all instructions in this manual.
2. Do not use this apparatus near water.
3. Clean only with a dry cloth.
4. Do not block ventilation openings. Install in accordance with instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves or another apparatus that produces heat.
6. Do not defeat the safety purpose of the polarized or grounding type plug. If the provided plug does not fit into the outlet, consult your Reseller.
7. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, etc.. Unplug the AC mains cord as well as all other connecting cables during transportation.
8. Only use attachments and accessories specified by Aeron or your Authorized Aeron dealer.
9. Use a surge protector on the main AC-Line to this component as well as all other components connected to this product. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. Refer all servicing to qualified service personnel. NO USER SERVICEABLE PARTS INSIDE. Owner may change tubes.

OTHER SAFETY CONSIDERATIONS

1. **ALWAYS** disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
2. **NEVER** use flammable or combustible chemicals for cleaning audio components.
3. **NEVER** wet the inside of this component with any liquid. If a liquid substance does enter your unit, immediately disconnect it from the AC mains and take it to your Aeron Dealer for inspection.
4. **NEVER** spill or pour liquids directly onto this component.
5. **NEVER** block air flow through ventilation slots or heat sinks.
6. **NEVER** bypass any fuse or replace any fuse with a value or type other than those specified.
7. **NEVER** expose the A-165 to extremely high or low temperatures. If the A-165 has been taken out of storage from an unheated environment, let the unit acclimate to room temperature before making any connections and applying power to the unit.
8. **ALWAYS** keep electrical equipment out of reach of children. Do not handle the tubes when hot, or wet them. Only touch the tubes only when they are cold and the unit is unplugged from its source of AC Power.
9. **ALWAYS** unplug sensitive electronic equipment such as this unit during lightning storms.

Installation

In your System

To insure normal component life and safe operation this unit must be operated only in a horizontal (upright) position. Adequate airflow and proper cooling thereby can occur only if there is no restriction below, behind and above the unit.

The four special non-marring elastomer feet provide adequate spacing only from a smooth, hard surface. Never operate the unit while it is sitting on a surface such as a rug or carpet.

If the unit is to be operated in an enclosed equipment cabinet, an exhaust fan is desirable so as not to operate the A-165 in overheated ambient air. The "ambient" operating temperature should never exceed 120°F or 49°C. Improper installation will cause premature tube failure and will affect your warranty, as well as the service life of the unit.

Connections

Rear Panel Connections

All two sets of Single-Ended inputs, one set of USB DAC and one set of mm Phono input are clearly marked to indicate use.

4-Loudspeaker output binding posts (+) and (-), L & R, for 4-8 ohm speaker connection

1 — Power line cord inlet

1 — Power line fuseholder

It is important sonically that your entire system be connected so that the audio signal arriving at the speakers has correct, or “absolute” polarity (i.e., non-inverted). Connect the black or “-” speaker terminal to the wire that connects to the “black (-)” terminal on the A-165. Connect the red or “+” speaker terminal to the wire that connects to the “red(+)” terminal on the A-165, and tighten the speaker terminals securely to ensure best sonic results.

Wireless Antenna:

Connect the specified wireless antenna provided by Aeron.

About Cables:

Use the best available speaker wires and interconnects. Aeron cannot emphasize this enough. As better components and systems are developed, it becomes increasingly important to avoid the limitations of inferior system interconnections.

Connect the A-165 input the source components only the highest grade of audio interconnect cables. To avoid sonic degradation use the shortest practical length of cables.

Connections

AC Power Connection

It is essential that the amplifier be connected to wall AC power receptacle, or a similar heavy-duty source. If it is connected to convenience receptacles on pre-amplifiers, etc., the full sonic capabilities of both the A-165 and the preamplifier will be compromised.

For the very best sonic performance, the A-165 should be connected to its own AC power circuit branch, protected by a 15 or 20 amp breaker. The other audio equipment should be connected to a different power circuit and breaker. Avoid the use of extension cords. If they must be used on a temporary basis, use High quality power cords.

The A-165 utilizes a compatible grounding system that generally does not require a “ground lifter” adapter plug on the AC power cord to minimize hum. The power cord supplied with the A-165 has a standard three-prong grounding plug to provide maximum safety when it is connected to a grounded wall receptacle. If there is any question regarding the safety of grounding procedures, be certain to seek competent help with the installation.

If electronic crossovers or other AC powered equipment are used with the A-165 it may be necessary to use “ground lifter” adapters on the power plugs of that equipment to minimize system hum. Generally, the lowest hum is achieved when the only direct connection between audio common “ground” and true earth ground occurs in the preamplifier, through its grounded power cord. Other equipment in the system should have some form of isolation to prevent ground loops and associated hum.

Operation

Power-up Procedure

Make sure you have read and complied with the Installation and Connection instructions prior to attempting operation.

Power-On

1. Adjust volume control to minimum setting
2. Press the “Power” button to turn unit ON
3. Choose the Audio Source, the source LED indicator is sparkling, wait 30secs to 1mins, till the LED is ON
4. Turn Volume Control to audience level

Shut-Down

1. Adjust Volume control to minimum setting
2. Press the “Power” button shut unit OFF

General Notes about Usage

Turn off the A-165 wait at least five minutes before turning it on again. This brief cool down period will reduce stress on the output tubes and potential damage to them.

Aeron does not recommend leaving your A-165 on 24 hours a day as is the custom of some listeners to achieve maximum sonic performance on demand. While this is often recommended for solid-state equipment, Aeron does not recommend this procedure for vacuum tube integrated amplifiers.

CAUTION: Always turn the volume control down when changing program sources.

Operation

Front Panel Control Functions

VOLUME CONTROL: Rotate the down or up volume control decreases or increases the volume level.

INPUT: Allows selection of any of three single-ended input sources 1, 2, 3. Switch the input selector button through each input as indicated on the panel.

POWER: Toggles power on and off from AC wall outlet to A-165.

Headphone

3.5mm Headphone output for conventional 32-200ohms stereo headphone.

Remote Control Functions

1. Press the button to choose your desire source.
2. Press Volume “up” or “down” bottom to increase or decrease the volume level.



Remote Control

Operation

Wireless Audio / USB DAC OPERATION

Wireless

Usually your wireless device will automatically search for a visible wireless device at first try, in this case the A-165 hybrid integrated amplifier. Your device should search and connect to the AERON A-165. If your device does not see the AERON “wireless device” appear after 30 seconds or so, then you may search for a USB device manually with your unit.

If you have difficulty in connecting, start your mobile device’s wireless search function and turn off then back on the A-165 amplifier.

(Your wireless antenna needs to be connected to the rear of the A-165.)

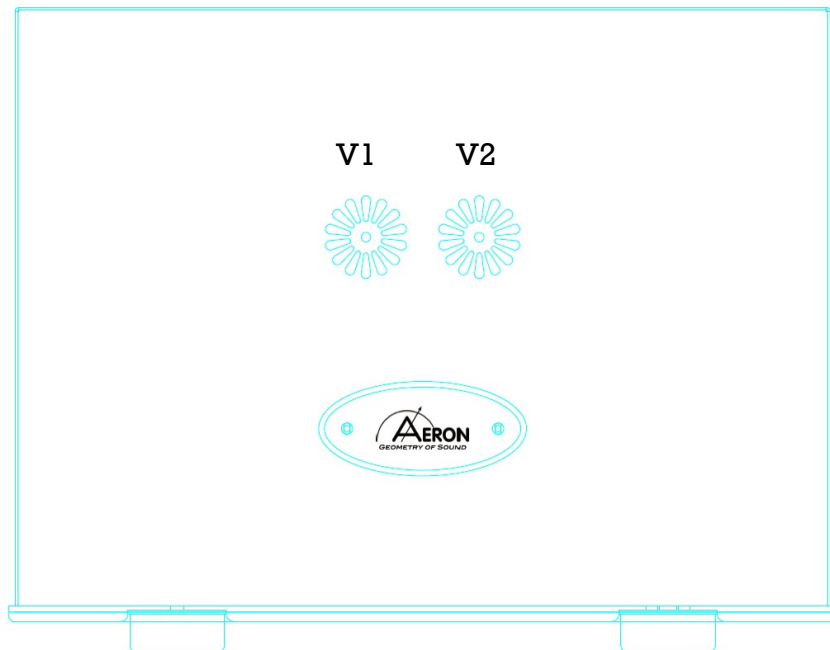
USB DAC

You may play your favorite tunes from your PC or laptop. Connect the data cable between the PC and the A-165’s DAC connection. When connecting with the A-165 hybrid integrated amplifier, the name on the PC’s sound card will appear as “AERON A 165 USB DAC”.

NOTE: You may not listen to two inputs at the same time. The wireless connection takes precedence over the USB DAC input. If you decide to use the wireless connection between your mobile device and the wired connection to your computer, you must disconnect the wireless connection between your mobile device and the wireless receiver.

Maintenance

Tube Replacement



As usual, the audio tubes used in A-165 can last for 10,000 hours or above.

The audiophile enthusiasts like changing different kind of audio tubes to ambience different sonic characters.

Please consult the distributor or your local dealer before changing the tubes.

CAUTION: If misuse the tube or re-placement the tubes by yourself, the machine have cause any malfunction, will not be eligible for warranty.

The models that used in A-165 of audio tubes.

V1 — 6N2 V2 — 6N1

Beside the above models, alternative models are capable for replacement, please check the following tubes:

V1	V2
6N2	6N1
6N1	ECC85
ECC85	ECC88

Maintenance

Servicing

CAUTION: Your A-165 contains sufficient levels of voltage and current to be lethal. Do not tamper with a component or parts inside the unit. Refer any needed service to your authorized Aeron dealer or other qualified technician. Should service be necessary, please contact your Aeron dealer, or Aeron Customer Service Email: info@lhe.com.hk or postmaster@stereoland.info.

Cleaning

To maintain the visual appearance of your A-165, occasionally wipe the front panel and top cover surfaces with a soft damp (not wet) cloth to remove dust. A mild, non-alkaline soap solution may be used to remove fingerprints or similar smudges. Cleaners containing abrasives should not be used as they will damage the brushed grain of the front panel finish.

Disposal and Recycling Guidelines

To dispose of this electronic product, do not place in landfill. This product may contain regulated materials which upon disposal require special reuse and recycling processing. Please contact your dealer or importing distributor for instructions on proper disposal of this product on your country. Packing and shipping materials may be disposed of in a normal manner.

Limited Warranty

Aeron products are covered by 2-Year Limited Warranty, or a 90-Day Limited Warranty on vacuum tubes. This Limited Warranty initiates from the date of purchase, and is limited to the original purchaser, or in the case of demonstration equipment, limited to the original purchaser, or in the case of demonstration equipment, limited to the balance of warranty remaining after original shipment to the retailer or importer.

The authorized importing retailer or distributor has accepted the responsibility for warranty of Aeron products sold by them. The specific terms and remedies for fulfillment of the Limited Warranty may vary from country to country. Warranty service should normally be obtained from the importing retailer or distributor from whom the product was purchased.

In the unlikely event that technical service beyond the ability of the importer is required, Aeron will fulfill the terms and conditions of the Limited Warranty. Such product must be returned at the purchaser's expense to the Aeron factory, along with a photocopy of the dated purchase receipt for the product, a written description of the problem(s) encountered, and any information necessary for return shipment. The cost of return shipment is the responsibility of the purchaser.

AERON A-165 Specifications:

Power Output:	70Wx2 (8ohms)
Frequency Response:	20Hz-50kHz (10W, 8ohms)
Distortion:	0.05%
LINE Gain:	34dB
Phono Gain:	74dB
S/N Ratio (LINE Signal):	86dB
LINE Input Impedance:	80k ohms
Speaker Output Impedance:	4ohms-8ohms
Phono Impedance:	47kohms/68pF
Headphone Impedance:	32-200ohms
USB DAC:	24bit 96kHz
Wireless:	Bluetooth 4.0
Power Supply:	AC100-120V/AC220-240V/50-60Hz
Tubes:	6N2 (6N1), 6N1 (ECC88)
Dimensions:	350x380x120mm (LxWxH)
Weight:	18kg
Note:	IR Remote Control

The manufacturer herewith declares that the product is in conformity with the provisions of the CE directive(s) including all applicable amendments.



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FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.