

# V-1x Power Amplifier

*Owner's Manual*



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Welcome to

# Ayre

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*Please send in your warranty  
registration card so we can  
stay in contact with you.*

Your Ayre V-1x offers a significant advance in the musical performance of audio power amplifiers. The warmth and immediacy of a live performance are apparent from the first listening. The combination of superb resolution and a natural, relaxed quality will draw you into the music, time and time again. This level of performance has been implemented using the highest level of workmanship and materials. You can be assured that the Ayre V-1x will provide you a lifetime of musical enjoyment.

## Installation and

# Operation

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The Ayre V-1x is easy to hook up and use. The following guidelines will ensure that the installation goes smoothly.

## Location

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*Do not stack the Ayre V-1x directly with other components, as this may restrict the air flow or induce hum into the audio circuitry.*

The Ayre V-1x produces a moderate amount of heat during operation.



**It is important to maintain an adequate supply of air flow to avoid overheating the amplifier .**

Good locations for your amplifier are on the floor, or in an open-backed cabinet or rack. If the amplifier is placed in a cabinet, be sure to provide at least three inches (75 mm) of air space on all sides of the amplifier.

The receiver for the infrared remote control is mounted behind the bottom recess on the amplifier's front panel. Although the transmitter's beam will reflect off of most wall surfaces, a direct line of sight from the listening position will ensure the maximum range. The beam will also travel through glass if necessary.

## Inputs

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*The input selector switch for one channel will be in the “up” position, while the other channel’s input selector switch will be in the “down” position.*

*Using the incorrect position on the input selector switches will not harm the equipment, and the amplifier may even seem to operate normally. However, some sonic degradation occurs in this situation.*

The power amplifier can be driven by a preamplifier or directly from a source (tuner, CD player, etc.) that has a level control. There are two sets of input connectors on the rear panel of the Ayre V-1x. The RCA jacks accept signals from unbalanced sources, while the XLR connectors are for balanced sources. A small toggle switch near the input connectors selects either the balanced or unbalanced inputs.

Selecting “Unbal” connects the inverting input to ground through an isolation resistor. Therefore, the incorrect setting of this switch forces a balanced source to operate in unbalanced mode. Conversely, if the selector is set to “Bal” while using an unbalanced source, the unused inverting input is susceptible to hum pick-up and radio-frequency interference.

## Outputs

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*The heavy-duty output terminals of the Ayre V-1x are designed to work best with spade lugs.*

The Ayre V-1x drives the loudspeakers with balanced outputs. Since none of the output terminals are grounded, connecting any of them to ground may result in serious damage to the amplifier.



**Do not use any speaker switch-box, accessory, or test equipment that has a common ground connection for both channels.**

There are two sets of output terminals per channel, making it easier to bi-wire your speakers. These terminals are wired in parallel, providing identical output signals.

## Operation

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*The master power switch on the rear panel also incorporates a circuit breaker.*

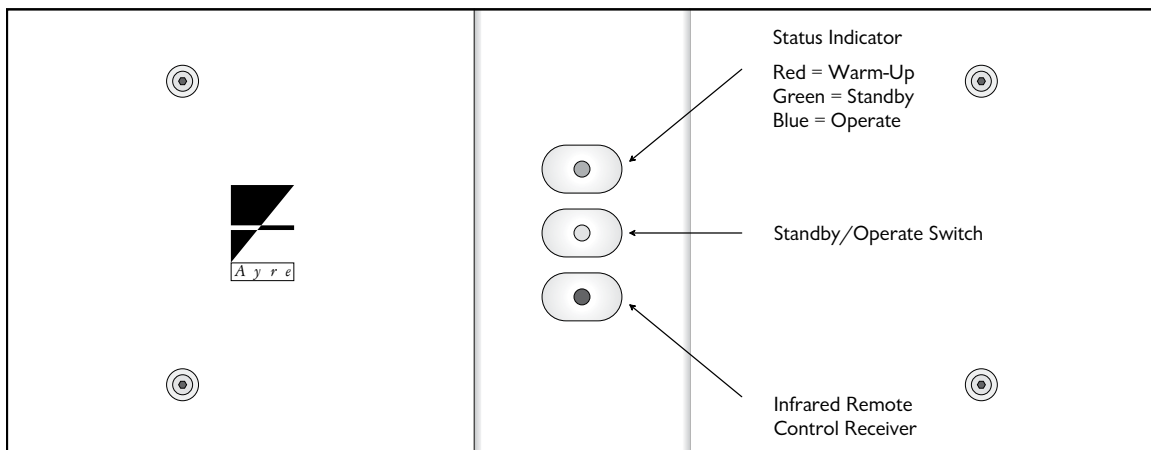
There are two power switches on the Ayre V-1x. The master power switch on the rear panel is normally intended to be left on. The front-panel switch selects between the “Standby” and “Operate” modes.

The Ayre V-1x features a sophisticated power monitoring system. When first plugged in to an AC power source, the front panel indicator light will glow red for approximately 90 seconds. During this time, the unit is in “Warm-Up” mode and the front-panel switch is inoperable.

*The remote control can also be used to select the “Standby” and “Operate” modes.*

After the circuitry has stabilized, the indicator light will change to green, indicating that the unit is in “Standby” mode and is ready for operation. When the listener presses the front-panel switch, the unit is in “Operate” mode and the indicator light glows blue.

In the “Standby” mode the output stage is turned off, while the input circuitry remains powered. This allows the unit to warm-up quickly for optimal sonic performance, while reducing the power consumption from 300 watts to 30 watts.



Should the AC line voltage drop below 80% of normal (brown-out), the unit will revert to “Warm-Up” mode and the indicator light will glow red. After the voltage returns to normal, the initial warm-up cycle will begin again.

The Ayre V-1x also incorporates a sensor to detect the presence of DC at the output terminals. In this case, the amplifier reverts to “Warm-Up” mode, the indicator light glows red, and power is immediately removed from the output stage. If the fault is still present when the front panel switch is pressed to “Operate” after the warm-up cycle is completed, the unit will immediately revert to the “Warm-Up” mode again.

## Remote Control

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The remote control included with the Ayre V-1x has four buttons. The single button on the left side of the hand-held transmitter will select the “Standby” and “Operate” modes on the amplifier, duplicating the action of the front-panel switch. The three buttons on the right side of the remote control will operate an Ayre preamplifier.

## Break-In

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*100 to 500 hours of music played through the system will assure full break-in.*

Due to the manufacturing processes used for the wires and capacitors, a break-in period is necessary for the amplifier to reach its full sonic potential.



## In Case of

# Trouble

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Should the Ayre V-1x amplifier ever fail to operate, please check the following:

*Is the unit in the “Operate” mode?*

The rear switch is the master power switch, and is normally intended to be left on. The front switch is the Standby/Operate switch. To operate the amplifier, the front panel indicator must be glowing blue.

*Are all of the connections to the amplifier secure?*

Check to see that the input and speaker connections on the rear of the V-1x are in place. Also, be sure that the amplifier is connected to a working AC outlet.

*Is the AC circuit breaker OK?*

The power switch on the rear of the unit incorporates an AC circuit breaker. In the case of an overload, the circuit breaker automatically sets the switch to the “off” position. To reset it, press the switch to the “on” position.

If the circuit breaker immediately resets itself to the “off” position, do not attempt further repairs. There are no user-serviceable parts in the Ayre V-1x. If the amplifier still does not operate, bring the unit to your dealer for assistance.



**Do not remove the amplifier cover. Hazardous voltages may exist inside the unit.**

# Specifications

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<i>Power Output</i>	200 watts per channel continuous into 8 ohms 400 watts per channel continuous into 4 ohms
<i>Gain</i>	26 dB
<i>Input Impedance</i>	100 k $\Omega$ (per phase)
<i>Power Consumption</i>	30 watts in standby mode 300 watts in operating mode, no signal
<i>Dimensions</i>	18" W x 18" D x 7" H (46cm x 36cm x 18cm)
<i>Weight</i>	95 pounds (43 kg)

## Statement of

# Warranty

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*Please take the time to fill out  
and return the enclosed  
warranty registration card.*

Your Ayre V-1x power amplifier is warranted against defects in workmanship and materials for a period of five years from the date of purchase. This warranty is transferable to subsequent purchasers within the original five-year period. All warranty claims must be made through an authorized Ayre dealer or distributor.

## Warranty Statement

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1. Ayre Acoustics, Inc. (Ayre) warrants the materials and workmanship of this product for a period of five years from date of first purchase. If any defects are found in the materials or workmanship of this Ayre product within the warranty period, the unit will be repaired or replaced by Ayre or its authorized agent.

2. Purchaser must return the product, packed in the original shipping carton, freight prepaid to:

Ayre Acoustics, Inc.  
2300-B Central Avenue  
Boulder, Colorado 80301

3. Ayre reserves the right to inspect any product that is the subject of any warranty claim prior to repairing or replacing it. Final determination of warranty coverage lies solely with

Ayre. Out-of-warranty claims will be billed for labor, materials, return freight, and insurance as required. Any product for which a warranty claim is accepted will be returned to the purchaser and the cost of shipping and insurance will be factory prepaid within the boundaries of the USA. Units to be shipped outside of the USA will be shipped freight collect only.

4. Ayre strives to manufacture the finest possible equipment, and therefore reserves the right to make improvements on its products, without necessarily assuming an obligation to retrofit such changes upon its previously manufactured models.

5. The above warranty is the sole warranty given by Ayre, and is in lieu of all other warranties. All implied warranties, including warranties of merchantability or fitness for any particular purpose shall be strictly limited in duration to five years from the date of original purchase, and upon expiration of the warranty period (five years), Ayre shall have no further obligation of any kind, whether express or implied. Further, Ayre shall in no event be obligated for any incidental or consequential damages as a result of any defect or any warranty claim, whether express or implied.

6. Ayre does not authorize any third party, including any dealer or sales representative to assume any liability of Ayre or make any warranty for Ayre. The unit must not have been altered or improperly serviced. The serial number on the unit must not have been altered or removed.

7. Warranty registration cards must be completed and mailed to Ayre within 30 days of purchase. Ayre may, at its option, require from the purchaser valid proof of purchase (dated copy or photocopy of dealer's original invoice).

A Place for

# Notes

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