

Ayre VX-5 Twenty

STEREO AMPLIFIER / HAND BUILT IN BOULDER, COLORADO



About Ayre Acoustics

Ayre Acoustics, Inc. has been designing and building superior quality, award-winning audio and video equipment since 1993. Manufactured in Boulder, Colorado, each component is carefully hand-assembled on-site by a dedicated technician, using only state-of-the-art materials and assembly techniques. Quality control is assured by a rigorous testing procedure, as well as a thorough inspection process. Ayre's service and support is unsurpassed. Our environmentally responsible manufacturing processes include the careful selection of equally conscientious American suppliers. Enter the world of Ayre; enter a new dimension of musical meaning and cinematic enjoyment.



The Ayre VX-5 Twenty fully-discrete, fully-balanced, zero-feedback amplifier features Ayre's exclusive Equilock circuitry and their Diamond output stage giving it both the power and control for the most demanding musical passages.

Incorporating Ayre's Twenty technology into the VX-5 has pushed its performance into the stratosphere. Ayre's breakthrough AyreLock power supply creates an ultra linear, robust starting point for the purest musical signal. The addition of the Ayre Double Diamond output stage brings a palpability to the music while keeping the amplifier's operating temperature at a comfortable level. Exclusive Ayre technologies including the Equilock gain stage ensure the purity of your music and the power required to easily handle the most challenging speakers.



Technology of special note in the Ayre VX-5 Twenty:

Double Diamond output stage

The Diamond output stage is an incredible output stage and Ayre believe its the best sounding design available. But, it produces a high level of heat in an amplifier design. Ayre designed the Double Diamond output stage to solve the heat issue and successfully reduced the operating temperature by 35%, keeping it below human body temperature. The new circuit design is a little more powerful than the previous version and has amazing power and control in the lower frequencies.

AyreLock

All power supply regulators, whether 3-pin ICs using massive amounts of feedback or the discrete zero-feedback designs Ayre have always used in their product ever since the V-3, twenty-one years ago, have at their heart a single series-pass active element (tube, FET, or BJT).



When the load (audio circuit) draws more current, the pass element decreases its resistance (turns on harder), to keep the voltage to the load constant.

For the AyreLock in the Twenty update, Ayre added a second circuit element (in this case a BJT) that also pulls down. So when the load (audio circuit) draw less current, the second transistor draws additional current to ground.

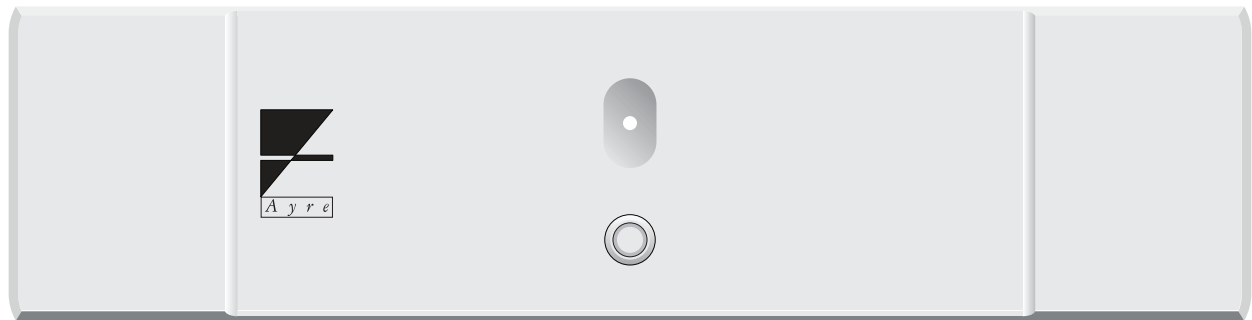
The analogy is like going from a single-ended output stage in a power amp to a push-pull complementary output stage.

This "locks" the output voltage of the regulator, regardless of any fluctuations in the load.

The Twenty Edition: Two decades of musical innovation.

The Ayre VX-5 Twenty will enthrall you with power and control distilled to their essence.





VX-5 Twenty Features

- AyreLock analog power supply
- Ayre's Double Diamond output stage
- Ayre's exclusive Equilock circuit
- Zero-feedback, fully-balanced discrete circuitry
- High-speed circuit board material
- Custom developed audio-grade resistors
- Ayre Conditioner power line RFI filter.

VX-5 Twenty Specifications

Power Output

175 watts per channel continuous into 8 ohms
350 watts per channel continuous into 4 ohms

Gain

26 dB

Input Impedance

1 MΩ unbalanced inputs / 2 MΩ balanced inputs (1 MΩ per phase)

Frequency Response

DC - 250 kHz

Power Consumption

35 watts in low-current consumption mode
325 watts in operating mode, no signal

Dimensions

17.25" W x 18.75" D x 4.875" H / (44cm x 48cm x 12cm)

Weight

52 pounds (24 kg)

