Power and Clarity in One Sophisticated Device

Onkyo has declared war on distortion. The success of its campaign against noise is evident the moment you switch on the A-9070 Integrated Stereo Amplifier. New DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry) dampens super high frequency distortion. Closed ground-loop circuits, HICC (High Instantaneous-Current Capability), and vibration-damping construction combine to produce a startlingly pure sound across a wide dynamic range. The unit’s four 15,000 µF capacitors keep plenty of power at the ready. Efficient parallel push-pull amplification paired with three-stage inverted Darlington circuitry works at reducing distortion to almost nil. Separate Wolfson® 192 kHz/24-bit DACs for both left and right channels improve performance. The unit is also equipped with 192 kHz/24-bit HD audio playback to handle modern formats. Four discrete amplifier modes—integrated amp, power amp, pre-amp, and split pre-amp/power amp—offer flexibility when integrating other hi-fi components. Details like an independent headphone amplifier, a phonograph equalizer, three digital audio inputs, four analog inputs, and gold-plated audio terminals/speaker posts speak of the highest build quality. The superb craftsmanship, technological refinement, and attention to detail invested in the A-9070 make it worthy of serious consideration for those in the market for top-shelf hi-fi gear.
Three-stage inverted Darlington circuitry actively works to ensure optimal audio performance.

Power supplies for the left and right channels of the A-9070 are structural design, and signal pathways are uniform in length. This helps to minimize errors in stereophonic playback.

New Circuit Board Construction

Parallel Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry

Paralleling "push-pull" amplification, the amplifier’s transistors alternately "push" and "pull" the current. In pairs, one output device (a transistor) will amplify the positive half of the waveform, while another output device amplifies the negative. Push-pull amplification is highly efficient, but can be affected by occasional instances of distortion. This is where the three-stage inverted Darlington circuitry comes in. Three-stage inverted Darlington circuitry actively works to reduce distortion by employing a low negative-feedback design to maintain voltage stability and enhance transient response. It’s extremely sensitive to oscillations and requires sophisticated control technology.

Four amplifier modes for the ultimate in versatility

Boasting the combined capabilities of a pre- and a power amp, the A-9070 is an amplifier with a difference. At the turn of a knob, it can be configured to run in any of four distinct modes. Depending on how you want to integrate it into your hi-fi system, you can use it as an integrated amp, as a power amp, or as a preamp. On top of that, you can also set up the A-9070 in split mode. This enables the pre-amp and power amp to work separately, so you can incorporate another device, such as an equalizer.

Separate Wolfson® 192 kHz/24-bit DACs for L/R channels

High-quality Wolfson DACs work to optimize analog audio performance on the A-9070. The receiver features dual 24-bit WM8742 DACs, which support sampling rates of up to 192 kHz. Although these DACs are specified to handle two-channel audio on a single chip, Onkyo employs separate chips for each stereo channel to ensure the most accurate digital-to-analog conversion.

New Circuit Board Construction

Rather than being directly connected to the chassis base, the circuit boards inside the A-9070 are cushioned by internal struts and affixed to the front, side, and rear panels. This method of construction prevents vibrations from the chassis from adversely affecting the circuit boards.