

# A-9050 Integrated Stereo Amplifier

SILVER | BLACK



DIDRC WRAT WIDE RANGE AMP TECHNOLOGY 192kHz/24-bit DAC PMBASS RI

## Driving Your Music with Power and Panache

The A-9050 Integrated Stereo Amplifier offers the best of both worlds—classic analog power and the latest in digital audio processing technology. Whether you're transported by the mellow glow of vinyl, or just want to experience your computer-based library with proper hi-fi sound, this is the amp for you. There are two digital inputs linked to a Wolfson® 192 kHz/24-bit DAC, which allow you to exploit the potential of lossless formats such as WAV. Gold-plated audio terminals and gold-plated banana plug-compatible speaker posts ensure a perfect connection for your CD player, tuner, and loudspeakers. However, it's the sound quality that really puts this amplifier in a league of its own. Our low negative feedback WRAT design breathes energy and vitality into recordings that can otherwise seem lifeless and flat. As well as DIDRC to eliminate digitally generated noise, the amplifier's Three-Stage Inverted Darlington Circuitry boosts current flows and reduces distortion. Plenty of good clean power—and a dash of Japanese audio innovation—has resulted in a stereo amp that's shaping up to become a new Onkyo classic.

### FEATURES

- 75 W/Ch (8 Ω, 1 kHz, 0.08% THD, 2 Channels Driven, IEC)
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Three-Stage Inverted Darlington Circuitry
- WRAT (Wide Range Amplifier Technology)
- High-Current Low-Impedance Drive
- Thick, Low-Impedance Copper Bus Bars
- Two 10,000 μF Capacitors

- Wolfson® 192 kHz/24-Bit DAC (WM8718)
- Phase-Matching Bass Boost
- Optimum Gain Volume Control
- Direct Mode
- 96 kHz/24-Bit Capable Digital Audio Inputs (1 Optical and 2 Coaxial)
- 5 Analog Audio Inputs and 1 Output
- Phono Input (MM)
- Audio L/R Pre-Out
- Subwoofer Pre-Out

- Speaker A/B Drive
- Gold-Plated RCA Terminals
- Gold-Plated, Banana Plug-Compatible Speaker Posts
- 1.6 mm Full Flat Chassis
- Aluminum Front Panel and Volume Knob
- Tone Control (Bass/Treble/Balance)
- Headphone Jack
- RI (Remote Interactive) Remote Control



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## WRAT (Wide Range Amplifier Technology) for Naturally Vivid Sound

Onkyo developed the WRAT suite of technologies to improve the clarity and character of amplified audio. The technologies work to reduce noise across the frequency range, guaranteeing a clear, balanced, and natural sound. It achieves this by employing a low negative feedback amplifier design, preserving the essential energy and life contained within the recording; using closed ground-loops to cancel unwanted noise from individual circuits; and by enabling high current flows to cancel reflex energy from the speakers.

## DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)

Despite being beyond the normal range of human hearing, frequencies above 100 kHz are susceptible to digital clocking-signal pulse and other forms of subtle distortion. Noise in the super-high-frequency range can affect the character or atmosphere of the original sound. Onkyo's DIDRC technology—formerly only available on its premium audio products—works by reducing distortion in the super-high-frequency range to deliver clearer-than-ever audio.

## Innovative Three-Stage Amplifier Circuit Brings Your Music to Life

While some hi-fi makers take a shortcut to amplified audio with the use of cheap all-in-one IC chips, the resulting sound is compromised once you turn the volume up. Instead, on the A-9050, Onkyo uses the same Three-Stage Inverted Darlington Circuitry technology it uses in its high-end A/V receivers and Reference Series hi-fi separates. This innovative circuit topology facilitates high speaker-driving power, reduces distortion, and preserves the buoyancy and expressiveness of recorded music—a unique characteristic of our low negative feedback amplifiers.

## Discrete Output Stage Circuitry Means Cooler Running Temperatures

A receiver's ability to deliver high power into low impedances is a vital factor in its performance. If the current flow through the amplification circuit is inconsistent, audio quality will suffer. Onkyo stereo amplifiers feature separate high-quality components at the signal output stage. Discrete transistors help guarantee a consistent, stable supply of current to the speaker system for an open and assured performance, with less chance of distortion and cooler running temperatures.

## Phase-Matched Bass Boost for Deeper Bass and a Clearer Mid-Range

From the warm low notes produced by a cello to the deep frequencies of electronic music, a good amplifier should be able to deliver plenty of bass without distorting. Some amplifiers are prone to the effects of phase shifting, which can overwhelm middle frequencies and muddy the overall sound. Our Phase-Matching Bass Boost technology effectively preserves mid-range clarity—allowing vocals and strings to shine—while maintaining a smooth, natural bass response at all volume levels.

## More Digital and Analog Connections

Being a thoroughly modern integrated pre-amp and power amplifier, the A-9050 features 96 kHz/24-bit optical and coaxial inputs which can carry digital audio signals from source devices—such as computers or laptops—for processing by the onboard Wolfson 192 kHz/24-bit DAC. Now you can experience the full potential of high resolution and lossless formats such as WAV. Of course, digital inputs also let you play everything from your computer's iTunes collection to movie downloads with power and precision beyond anything you're used to from your PC's speakers.

## High-Output Power Supply to Drive Your Speakers

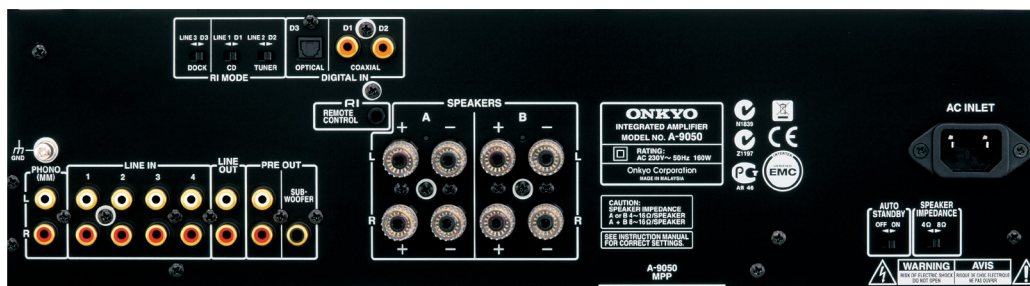
At the heart of all our amplifiers, you'll find a power supply that can maintain or increase output power as required. Musically, this means that you have deep, powerful bass; wide-ranging dynamics; musical peaks that sound composed; and correct timbre and sound staging. When paired with a set of quality loudspeakers, Onkyo amplifiers have the capability to drive them with ease. In the case of the A-9050, you will find a high-output power transformer; two 10,000  $\mu$ F capacitors, and low-impedance copper bus bars. All work in concert to enhance the power and fidelity of your audio sources.

## Quality Construction Equals Better Performance

A vital factor in any audio component is its build quality. It's not just about good looks. The build quality of the chassis, the construction techniques used, and the electronic parts chosen all combine to shape the outputted audio signal. To preserve the integrity of the signal and extend component life, we've fitted gold-plated RCA terminals and gold-plated, banana plug-compatible speaker posts to the A-9050. To prevent vibration, a 1.6 mm anti-resonant chassis is used to isolate the audio signal from any interference during the amplification process. This rugged chassis is superbly finished with an aluminum front panel and volume control that accentuate the quality of the construction throughout.

## SPECIFICATIONS

Power Output	75 W/Ch (8 $\Omega$ , 1 kHz, 0.08%THD, 2 Channels Driven, IEC)
THD+N (Total Harmonic Distortion + Noise)	0.08% (1 kHz, 1 W Output)
Damping Factor	60 (Front, 1 kHz, 8 $\Omega$ )
Input Sensitivity and Impedance	175 mV/33 k $\Omega$ (Line) 4.8 mV/47 k $\Omega$ (Phono MM)
Rated RCA Output Level and Impedance	0.175 V/2.2 k $\Omega$ (Rec out)
Phono Overload	100 mV (MM, 1 kHz, 0.5%)
Frequency Response	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)
Tone Control	$\pm$ 14 dB, 100 Hz (Bass) $\pm$ 14 dB, 10 kHz (Treble) $\pm$ 8 dB, 80 Hz (PM Bass)
Signal-to-Noise Ratio	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)
Speaker Impedance	4 $\Omega$ –16 $\Omega$ (A or B), 8 $\Omega$ –16 $\Omega$ (A + B)
<b>General</b>	
Power Supply	AC 230V–, 50 Hz
Power Consumption	160W
Standby Power Consumption	0.3W
Dimensions (W x H x D)	435 x 139 x 330.3 mm
Weight	8.2 kg
<b>CARTON</b>	
Dimensions (W x H x D)	572 x 264 x 419 mm
Weight	10.5 kg
<b>Supplied Accessories</b>	
• Instruction manual • AC power cord • Remote controller • AAA (R03) batteries x 2	



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**ONKYO**

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