

# D-509E/D-509C/D-509M Speaker System

BLACK



A-OMF N-OMF

## Onkyo Technology Combines to Deliver its Best High-End Speakers Yet

The D-509 home cinema speaker package delivers stunning hi-fi musicality, particularly when partnered with an Onkyo A/V network receiver featuring the new Digital Processing Crossover Network. When so paired in a bi-amped configuration, audio signals are digitally processed within the receiver, rather than being sent through less precise speaker crossovers. As well as more accurately controlling frequency crossover points, the digital processing system reduces interference and promotes greater power efficiency. The technology produces a more expansive mid-range that is outputted through sensitive N-OMF drivers and high-quality ring-type tweeters. To handle bass frequencies, Onkyo has equipped each front monitor with two 13 cm woofers featuring A-OMF Monocoque cones—a strong and lightweight blend of polyethylene, cotton, and aramid fiber. The home cinema package is made complete with an acoustic-suspension center cabinet boasting twin N-OMF woofers and tweeter, plus two surround speakers with an N-OMF woofer and tweeter each. This classically styled speaker set includes gold-plated, banana plug-compatible audio terminals and is fastidiously finished in glossy piano black.

### D-509E 3-Way Bass Reflex Front Speakers

- 13 cm A-OMF Monocoque Woofer x 2
- 13 cm N-OMF Mid-Range Driver
- 3 cm Ring Tweeter
- Network-Through Function\*
- Detachable Anti-Vibration Spike-Style Feet x 4
- Bi-Wire Connection Capability

- Piano Black Finish
  - Banana Plug-Compatible Gold-Plated Terminals
- \* Compatible with the Digital Processing Crossover Network Featured on the TX-NR818 and Higher A/V Receivers

### D-509C 2-Way Acoustic-Suspension Center Speaker

- 13 cm N-OMF Woofer x 2
- 3 cm Ring Tweeter

- Piano Black Finish
- Banana Plug-Compatible Gold-Plated Terminals

### D-509M 2-Way Acoustic-Suspension Surround Speakers

- 13 cm N-OMF Woofer
- 3 cm Ring Tweeter
- Piano Black Finish
- Banana Plug-Compatible Gold-Plated Terminals

# D-509E/D-509C/D-509M Speaker System

## Enjoy the Talents of Our New Mid-Range Drivers

Onkyo's high-end N-OMF speaker cone laminate provides the perfect balance of strength and sensitivity needed for high-fidelity sound reproduction. Aramid fiber gives the requisite strength for a fast and precise response, while four layers of lightweight non-woven cotton absorb unwanted vibrations, infusing mid-range frequencies—in particular, vocals and dialogue in movies—with a vivid and natural warmth.

## Deep Bottom End Carries Your Movies and Music

Onkyo A-OMF polymer alternates layers of polyethylene naphthalate for stiffness, synthetic aramid fibers for strength, and lightweight non-woven cotton for flexibility. The resulting laminate is ideal for transmitting low-frequency sounds with speed and accuracy. The D-509E front monitors feature twin A-OMF Monocoque woofers. These may be connected to the receiver in a bi-amping configuration, with the bass woofers and mid-range drivers drawing their own separate and exclusive supplies of power. This results in greater overall efficiency and an improved ability to respond to large dynamic gains.

## Audiophile-Grade Tweeters Reveal Hidden Details

A set of quality tweeters can make all the difference to the performance of your sound system, revealing hidden details and nuances within music, and helping you to locate effects in a soundtrack mix. All the speakers comprising the D-509 Series feature high-end ring radiator-type tweeters, a design noted for its ability to deliver exceptionally pure tones without distorting.

## Designed for Onkyo's New Digital Processing Crossover Network

Onkyo A/V receivers released in 2012—from the mid-range TX-NR818 model and up—feature a Digital Processing Crossover Network. Technology on board the receiver parses and directs frequencies to the appropriate speakers, selecting crossover points with a greater degree of accuracy than traditional speaker crossovers are capable of. As well as eliminating interference at crossover points, the technology is able to expand the frequency range covered by the mid-range drivers, which creates a clearer and more expansive sound. Bi-wiring and bi-amping frees woofers and drivers to focus their power exclusively on the frequency range they were designed to handle.

## Gold-Plated Speaker Terminals

The most advanced speaker cone material and high-tech cabinet design is only ever as good as the audio connections linking them to the amplifier. To that end, all cabinets in the D-509 Series are fitted with top-quality gold-plated and banana plug-compatible audio terminals.

## Quality Finish and Style to Suit Your Home

The D-509 Series is designed to harmonize with your décor rather than overwhelm it. With classic proportions and timeless black piano finish offset with striking white speaker cones, the package will add a note of sophistication to almost any modern or traditional interior. The high-gloss finish is also easy to keep free of dust and never goes out of style.

## SPECIFICATIONS

### D-509E (Front)

Speaker Type	3-Way, Bass Reflex
Drivers	13 cm A-OMF Monocoque Woofer x 2 13 cm N-OMF Mid-Range Driver 3 cm Ring Tweeter
Frequency Response	40 Hz–100 kHz
Crossover Frequency	450 Hz, 2.8 kHz
Max. Input Power	150 W
Nominal Impedance	4 Ω
Output Sound Pressure Level	84 dB/W/m

### General

Dimensions (W x H x D)	275 x 991 x 370 mm
Weight	16.4 kg

### Carton

Dimensions (W x H x D)	459 x 1107 x 356 mm
Weight	21.5 kg

### Supplied Accessories

- Cork Spacer x 4
- Anti-Vibration Spike-Style Feet x 4
- Sound-Absorbing Insulation Sponge
- 3 m Speaker Cable
- Instruction Manual

### D-509C (Center)

Speaker Type	2-Way, Acoustic Suspension
Drivers	13 cm N-OMF Woofer x 2 3 cm Ring Tweeter
Frequency Response	65 Hz–100 kHz
Crossover Frequency	2.9 kHz
Max. Input Power	150 W
Nominal Impedance	4 Ω
Output Sound Pressure Level	86.5 dB/W/m

### General

Dimensions (W x H x D)	500 x 164 x 176 mm
Weight	5.9 kg

### Carton

Dimensions (W x H x D)	589 x 261 x 274 mm
Weight	7.5 kg

### Supplied Accessories

- Cork Spacer x 2
- Anti-Vibration Spike-Style Feet x 2
- Nut and Nylon Washer for Feet x 2
- Base Plate for Feet x 2
- 3 m Speaker Cable
- Instruction Manual

### D-509M (Surround)

Speaker Type	2-Way, Acoustic Suspension
Drivers	13 cm N-OMF Woofer 3 cm Ring Tweeter
Frequency Response	60 Hz–100 kHz
Crossover Frequency	2.8 kHz
Max. Input Power	120 W
Nominal Impedance	4 Ω
Output Sound Pressure Level	83 dB/W/m

### General

Dimensions (W x H x D)	164 x 280 x 187 mm
Weight	3.5 kg

### Carton

Dimensions (W x H x D)	369 x 261 x 274 mm
Weight	4.5 kg

### Supplied Accessories

- Cork Spacer x 4
- 8 m Speaker Cable
- Cushion x 4
- Instruction Manual



Speaker Terminals (D-509E)



Speaker Terminals (D-509C/D-509M)



Speaker's Drivers (D-509E)



Cork Spacers and Spike-Style Feet (D-509E)