

D-302E

2-WAY, BASS REFLEX SPEAKERS

ONKYO
IMAGINATIVE SIGHT & SOUND



A Speaker System Driven by Sound-Enhancing Qualities for Fuller Sounding Audio

Showing the rewards of continuous improvement, the D-302E 2-way, bass reflex speakers incorporate Onkyo's latest audio developments. Much like a Japanese work of art, the focus is on refinement that can be experienced through the senses. Even in their design—with a classical wood-finished MDF construction—these speakers are made to blend into the home, not dominate like some of today's more poorly conceived audio components. Easily matched with components from Onkyo's separate collection, these speakers will reveal noticeable nuance and color from your audio sources.

New and Improved A-OMF Diaphragm for Better Transient Response

Used in the construction of Onkyo diaphragm woofers, A-OMF evolves from Onkyo Micro Fiber (OMF). Even though both fibers utilize a cotton weave to absorb unwanted vibrations, A-OMF has proven to be 3.5 times stronger. A-OMF's strength and durability comes from the addition of a PEN (polyethylene naphthalate) layer to a flexible cotton weave. This fiber can be used to construct a thin yet rigid diaphragm for an extremely fast and accurate transient response. You can expect improved midrange clarity for an incredibly vivid yet natural sound.

Dynamic Driver Construction to Improve Overall Speaker Performance

As the magnet and the voice coil are integral parts of a dynamic driver, we have included a voice coil with a diameter of 65 mm as well as a high-strength magnet with a diameter of 140 mm and a weight of 1090 grams. The voice coil is essentially the driving element of a dynamic driver, so we have ensured that it mitigates the loss of driving power. Also, we have implemented a 6 mm die cast aluminum frame to remove any vibrations. By considering the overall structure of the dynamic driver, you can expect better overall speaker performance.

New "V-Line" Edge to Remove Mitigating Vibrations

To remove any harsh sounds affected by the outer circumference of the woofer, the D-302E incorporates a new "V-shaped" edge on the outer circumference of the woofer. The edge is designed to reduce vibrations that can adversely affect emitted sound.

Highly Responsive Ring-Drive Tweeter for High-Frequency Sounds

Onkyo has produced what it calls a "ring-drive tweeter" to deliver high-frequency sounds with finesse and clarity. We have discovered that this construction can better separate the low-frequency vibrations emanating from inside the tweeter.

Aero Acoustic Drive to Cut Off High Frequency Interference

Poorly designed bass reflex speakers will be affected by membrane overshoot and poor transient response behavior. Typically, "slit ducts" have been used to "mask" any noise and reduce distortion. Through its own research of different duct shapes, Onkyo has developed a duct—the Aero Acoustic Drive—which effectively separates low and high frequency sounds thereby ensuring a more powerful and natural sound.

Wood-Finished MDF Cabinet for a More Natural Sound

Smaller speakers lack the ability to create the same sound space as larger speakers. Therefore, the speaker cabinet is essential in the promotion of a full sound. The D-302E's MDF cabinet construction—accentuated by a real wood finish—not only has a classical furniture look but also a spacious sound.

Independent Network Circuits for the Woofer and Tweeter

The D-302E uses an isolated mount system to separate the circuits for the woofer and the circuit. The independent circuits mitigate any potential interference.

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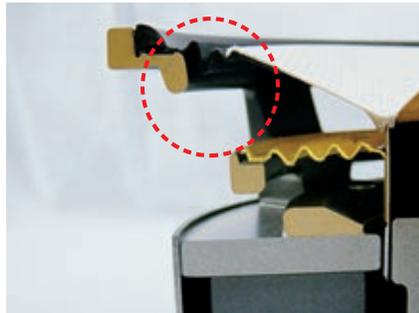
Woofer



Tweeter



A-OMF diaphragm



V-Line Edge



Aero Acoustic Drive

Features

- New A-OMF diaphragm for better transient response
- Supported by a large voice coil (65 mm)
- Implementing a large, high-strength ferrite magnet
- Die cast frame construction to prevent vibrations
- New "V-Line" Edge to remove mitigating vibrations
- Highly responsive ring-drive tweeter for high-frequency sounds
- Equalizer for improved transient response
- Aero Acoustic Drive to cut off high frequency interference
- Wood-finished MDF cabinet
- Network circuit to mitigate woofer/tweeter interference
- Gold-plated, banana-plug compatible speaker posts

SPECIFICATIONS

Speaker Type	2-Way, Bass Reflex
Drivers	
Woofer	16 cm A-OMF Diaphragm
Tweeter	4 cm Ring-Dome
Frequency Response	34 Hz-100 kHz
Crossover Frequency	2 kHz
Output Sound Pressure Level	83 dB/W/m
Max. Input Power	200 W
Nominal Impedance	4 ohms
Cabinet Size	15.2 litre
Dimensions (W x H x D)	210 x 347 x 363 mm
Weight	10.8 kg

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice.

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