

# SKF-L500/SKS-L500/SKR-L500

FRONT SPEAKERS/CENTER & SURROUND SPEAKER PACKAGE/SURROUND BACK SPEAKER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



## Bringing Advanced Speaker Construction Technology to the Home Theater Industry

When Onkyo teamed up with one of Japan's leading companies to research new materials for speaker construction, the goal was to come up with a material that could be easily manipulated into different cabinet shapes (thereby reducing diffraction and enabling different designs) while retaining the necessary material density to reduce cabinet vibrations (a major cause of poor quality sound). This joint effort has realized a construction method, Advanced Extrusion Engineering Technology (AEET), where fine wooden grain is infused with ABS resin, and then extruded into the shape of the speaker cabinet. The L500 speaker series shows the potential of AEET construction—a sleek, ergonomic home theater speaker design that isn't going to let you down performance-wise. To give the front and center speakers an even greater edge, you'll find Onkyo's Advanced Onkyo Micro Fiber (A-OMF) in the woofer diaphragm. A-OMF's three-layer construction can be used to construct a thin yet rigid diaphragm that enables an extremely fast and accurate response. The stiffness of the diaphragm ensures breakup doesn't occur (too much flexibility). This enables the speakers to avoid midrange coloration; in other words, sounds will be pure, open and directed. More than just a capable home theater speaker series, the L500 speaker series shows a new direction for the future.

### Advanced Engineering Extrusion Technology (AEET)

For AEET to be used successfully in speaker development, it has to produce as few vibrations as possible. When compared to other speaker materials like MDF, we found that the cabinet resonant frequency was similar, unlike a lot of cheaper materials used in the production of home theater speaker systems. Also, AEET's flexibility enables a "rounded" speaker shape, which helps to suppress diffraction (when the sound is re-radiated from edges).

### ECO—Environmentally Sound Speaker Development

Instead of mass manufacturing speakers with little consideration for resources, the construction of the L500 speakers impacts the environment as little as possible. In the AEET construction process, the wooden grain used comes from completely recycled materials. Also, the discharge of harmful waste, particularly effluent, is controlled during the production of the A-OMF diaphragm.

### New, Improved Advanced Onkyo Micro Fiber (A-OMF) Diaphragm for Better Transient Response

Used in the construction of the L500's front and center diaphragm woofers, A-OMF uses a three-layer construction—cotton weave, non-woven cotton and PEN (polyethylene naphthalate)—that has proven to be stronger, more resistant to heat and more responsive than its predecessor. Also, A-OMF's lightness enables the cone to respond faster to transient signals and stop faster if the drive signal has ceased.

### 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. With any vented design, the size and placement of the duct is crucial in ensuring that the woofer's rear-firing and front-firing waves are both in phase. Through its own research of different duct shapes, Onkyo has developed a duct—the Aero Acoustic Drive—that effectively separates the low and the high frequency sounds to ensure a more precise, powerful sound.

# SKF-L500/SKS-L500/SKR-L500

FRONT SPEAKERS/CENTER & SURROUND SPEAKER PACKAGE/SURROUND BACK SPEAKER

## SKF-L500 *Front Speakers*

- 8 cm A-OMF diaphragm woofer x 2
- 2.5 cm balanced-dome tweeter
- 150 watts max. input
- AEET construction
- High-gloss finish
- Aero Acoustic Drive
- Magnetically shielded
- Push-type speaker terminals

## SKR-L500 *Surround Back Speaker*

- 8 cm cone woofer
- 2.5 cm balanced-dome tweeter
- 130 watts max. input
- AEET construction
- High-gloss finish
- Aero Acoustic Drive
- Wall mounting capability
- Push-type speaker terminals

*(Sold individually)*

## SKS-L500 *Center & Surround Speaker Package*

### SKC-L500 *Center Speaker*

- 8 cm A-OMF diaphragm woofer x 2
- 2.5 cm balanced-dome tweeter
- 150 watts max. input
- AEET construction
- High-gloss finish
- Aero Acoustic Drive
- Wall mounting capability
- Magnetically shielded
- Push-type speaker terminals

### SKM-L500S *Surround Speakers*

- 8 cm cone woofer
- 2.5 cm balanced-dome tweeter
- 130 watts max. input
- AEET construction
- High-gloss finish
- Aero Acoustic Drive
- Wall mounting capability
- Push-type speaker terminals

*\*All speakers include speaker cable and cork spacer. The SKF-L500 and SKC-L500 also include a speaker base.*

## SPECIFICATIONS

<b>Speaker Type</b>	
Front .....	2-Way, Bass Reflex
Center .....	2-Way, Bass Reflex
Surround .....	2-Way, Bass Reflex
Surround Back .....	2-Way, Bass Reflex
<b>Drivers</b>	
Front .....	8 cm A-OMF Diaphragm woofer x 2 2.5 cm Balanced-Dome Tweeter
Center .....	8 cm A-OMF Diaphragm woofer x 2 2.5 cm Balanced-Dome Tweeter
Surround .....	8 cm Cone woofer 2.5 cm Balanced-Dome tweeter
Surround Back .....	8 cm Cone woofer 2.5 cm Balanced-Dome tweeter
<b>Frequency Response</b>	
Front .....	45 Hz-100 kHz
Center .....	60 Hz-100 kHz
Surround .....	60 Hz-35 kHz
Surround Back .....	60 Hz-35 kHz
<b>Output Sound Pressure Level</b>	
Front .....	82 dB/W/m
Center .....	82 dB/W/m
Surround .....	80 dB/W/m
Surround Back .....	80 dB/W/m
<b>Max. Input Power</b>	
Front .....	150 W
Center .....	150 W
Surround .....	130 W
Surround Back .....	130 W
<b>Nominal Impedance</b>	
Front .....	6 Ω
Center .....	6 Ω
Surround .....	6 Ω
Surround Back .....	6 Ω
<b>GENERAL</b>	
<b>Dimensions (W x H x D)</b>	
Front .....	161 x 1000 x 93 mm (without speaker base) 280 x 1013 x 261 mm (with speaker base)
Center .....	378 x 161 x 93 mm
Surround .....	161 x 288 x 93 mm
Surround Back .....	161 x 288 x 93 mm
<b>Weight</b>	
Front .....	4.3 kg
Center .....	1.6 kg
Surround .....	1.1 kg
Surround Back .....	1.1 kg

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

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**Onkyo Corporation** 2-1 Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: +81-72-831-8136 Fax: +81-72-833-5222 <http://www.onkyo.com/>  
**Onkyo China Limited** Units 2102-2107, Metroplaza Tower 1, 223 Hing Fong Road, Kwai Chung, N. T., HONG KONG, SAR of China Tel: +852-2429-3118 Fax: +852-2428-9039 <http://www.ch.onkyo.com/>  
**Onkyo U.S.A. Corporation** 18 Park Way, Upper Saddle River, N.J. 07458, U.S.A. Tel: +1-201-785-2600 Fax: +1-201-785-2650 <http://www.onkyousa.com/>  
**Onkyo Europe Electronics GmbH** Liegnitzerstrasse 6, 82194 Grobenzell, GERMANY Tel: +49-8142-4401-0 Fax: +49-8142-4401-555 <http://www.eu.onkyo.com/>