

JBL

**LS SERIES
SPEAKER SYSTEMS**

BUILDING ON THE LEGACY,
SETTING A HIGHER STANDARD.





AN ADVANCED NEW EXPRESSION OF THE MOST ADVANCED JBL® TECHNOLOGIES AVAILABLE. Loud, clear, stunningly realistic audio reproduction for public spaces and private homes has been a JBL® hallmark for more than 60 years. One way we've achieved that distinction is by using our most innovative technologies and materials in both our professional and consumer systems, up and down the product line. It's how flagship products become bestsellers, and how JBL Pro Sound Comes Home.™

INTRODUCING THE LS SERIES.

The new high-performance JBL LS Series loudspeakers share the design philosophy and signature Bi-Radial®-horn/compression-driver configuration of the widely acclaimed JBL Project speakers – K2® and Array – as well as of the Everest DD66000, the most uncannily lifelike musical instrument ever to bear the JBL name. Considering its lineage, you can be forgiven for expecting greatness from the LS Series. Greatness was a design spec, and it's the very thing these remarkable new loudspeakers were born to deliver.



ADVANCED ENGINEERING MEETS EXQUISITE CRAFTSMANSHIP.

LS enclosures are more than just beautiful to look at: The wedge shape and gently curving side panels prevent unwanted internal resonance. High-mass MDF construction minimizes sound coloration. A curved lower baffle prevents acoustic interference with the lower woofer, while gracefully transitioning into the gloss-finish, streak-ebony side panels, which are finished in a rich mahogany shade.





JBL

SHOUTS AND WHISPERS: THE LS EXPERIENCE.

The ideal home audio system doesn't favor music over movies, or small rooms over larger ones. The ideal home audio system has the raw power to reproduce bass and midrange frequencies without any effort or distortion at any listening level, as well as the finesse to deliver brilliantly clean high- and ultrahigh-frequency sound directly to your ears, undiminished by interaction with walls and furniture.

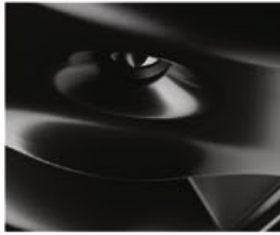
In the high frequencies, LS Series speakers employ a constant-directivity HF compression driver and UHF ring tweeter in a unique computer-optimized baffle that suppresses phase interference and signal loss. The realism of low-frequency sound is heightened with high-performance dual pulp-cone woofers in a staggered network design for exceptionally rich bass response. Working together, these technologies ensure that LS Series speakers render "out-of-this-world" action sequences and delicate, otherworldly musical passages with equal clarity and accuracy.

Music and movies are made to be enjoyed, and LS Series speakers are engineered to ensure that you'll enjoy them to their fullest, whatever your taste in entertainment may be.

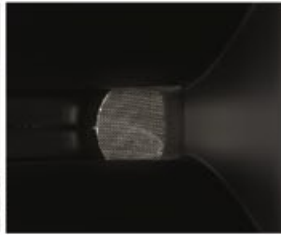
60 YEARS OF BREAKING NEW GROUND: THE LS TECHNOLOGIES.



THE BI-RADIAL HORN. The proven design of the proprietary JBL Bi-Radial horn delivers precise imaging with strict directivity for highly realistic on- and off-axis response to 40kHz. The graceful curves of the LS horn baffle maximize clarity by preventing any interference between the HF and UHF drivers.



THE UHF RING TWEETER. The 015M ring tweeter features an exceedingly fast, highly rigid 19mm polyimide diaphragm driven by a ferrofluid-cooled neodymium magnet that provides outstanding heat resistance. The tweeter's diaphragm, surround and voice-coil superstructure is molded as a single piece to minimize signal loss. An oval-shaped short horn and bullet-shaped center equalizer control energy attenuation caused by phase interference, for smoother overall response.



THE HF COMPRESSION DRIVER. An expressive 176Nd compression driver with a 50mm titanium diaphragm and lightweight aluminum voice coil delivers superior high-frequency response, and a ferrofluid-injected neodymium magnet structure provides improved power-handling capability.



THE PURE PULP-CONE WOOFERS. Dual pure-pulp-cone woofers provide exceptionally rich, realistic bass and mid-bass reproduction. A heat-resistant, high-excursion Kapton® voice coil with center-pole vent minimizes distortion and power compression at high output levels, even over extended periods.



THE CROSSOVER NETWORK. In LS80 and LS60 speakers, a staggered network design divides bass and mid-bass frequencies between identical woofers, enhancing low-end response and smoothing the transition to the HF driver. The networks employ three types of capacitors, including a polypropylene film capacitor, for detailed musical expression and dynamics. Gold-plated HF and LF binding posts allow for bi-wiring.

A 60-YEAR LOVE AFFAIR WITH MOVIES AND MUSIC.



| 1940's | 1950's | 1960's | 1970's | 1980's | 1990's | TODAY |
|--|---|--|---|--|---|--|
| NYLON STOCKINGS, FILM NOIR, THE DAWN OF AUDIO. James B. Lansing, who led the team that first brought sound to movies, strikes out on his own, founding JBL. Among the company's first products is a high-frequency transducer that's still being used by audio professionals today, unchanged after more than 60 years. | BLUE SUEDE SHOES, MCCARTHY, THE ELECTRIC GUITAR. The JBL brand becomes the clear choice in studio and theater sound. Leo Fender chooses the JBL D130 transducer to amplify his electric guitar. The pioneering JBL Hartsfield speaker introduces true high fidelity to homes everywhere. | MUSCLE CARS, WOODSTOCK,[®] SPACE. The legendary 4320 speaker is introduced, and becomes the definitive studio monitor of its day. After the Woodstock [®] festival in 1969, JBL equipment becomes standard at rock concerts around the world. | POLYESTER, WATERGATE, SATURDAY NIGHT FEVER.[®] JBL studio monitors are ranked Number One by <i>Billboard</i> magazine. And the L100, a consumer version of the 4320, is introduced, bringing JBL Pro technology home for the first time. The L100 becomes one of the best-selling speakers of the decade. | MIAMI VICE,[®] MASTERS OF THE UNIVERSE,[®] MTV.[®] The Academy of Motion Picture Arts and Sciences chooses JBL components to introduce 70mm Dolby [®] stereo in showcase theaters. JBL titanium diaphragms and Bi-Radial horns are introduced in professional studio monitors; these technologies will soon appear on the home front. | GEN X, DOTCOMS, DVD. THX [®] theater installations are dominated by JBL speakers, while near-field studio monitors take the lead in 5.1 and 7.1 sound mixing and mastering. And the JBL Simply Cinema [®] system, the original "one box" home theater solution, is introduced. | THE FIRST NEW PRODUCT SERIES CREATED IN CELEBRATION OF THE JBL 60TH ANNIVERSARY. JBL LS Series loudspeakers put classic high-end JBL technologies to work, bringing breathtaking new life and depth to home entertainment in all its forms. |

Woodstock, Saturday Night Fever, Miami Vice, Masters of the Universe and MTV are trademarks of their respective companies in the U.S. and other countries and are not associated or affiliated with Harman International Industries, Incorporated.



THE ARCHITECTS.

The LS Series is the work of a team of talented engineers and designers led by Charles Sprinkle, JBL systems engineer, and Daniel Ashcraft, chief creative officer of Ashcraft Design.

A lifelong audio enthusiast with a particular interest in compression transducers and horns, Sprinkle worked as an engineering intern at Harman International prior to receiving his degree in 2003. And although he's a relative JBL newcomer, he already has a number of innovative systems to his credit, including JBL Cinema Vision™, Venue®, JBL Cinema Sound and JBL Control NOW™. For the LS Series, Sprinkle developed an improved horn design and new low-frequency transducers to achieve his goal of acoustical integration.

Sprinkle worked closely with Daniel Ashcraft, who as head of his own design firm has played a key role in JBL industrial-design efforts for more than 20 years. A graduate of the Art Center College of Design, Ashcraft co-developed the legendary JBL Project Everest DD55000 system in 1986 and the original Project K2 S9500 in 1988, as well as their successors, the K2 S9800 in 2000 and the Everest DD66000 in 2006.

With the LS Series, Sprinkle and Ashcraft have succeeded in creating a visually stunning loudspeaker system with exceptionally lifelike, effortless sound.



| | LS40 | LS60 | LS80 | LSCENTER |
|------------------------------------|---|---|---|---|
| Frequency Response (-3dB) | 50Hz – 38kHz | 48Hz – 38kHz | 46Hz – 38kHz | 85Hz – 38kHz |
| Max. Recommended Amplifier Power* | 150W | 150W | 200W | 150W |
| Power Handling (Continuous/Peak) | 75W/300W | 75W/300W | 100W/400W | 75W/300W |
| Sensitivity (2.83V/1m) | 87dB | 87dB | 90dB | 88dB |
| Nominal Impedance | 6 Ohms | 6 Ohms | 6 Ohms | 6 Ohms |
| Crossover Frequencies | 2.6kHz – 24dB/octave; 7kHz – 24dB/octave | 400Hz – 6dB/octave; 2kHz, 8kHz – 24dB/octave | 400Hz – 6dB/octave; 2.5kHz, 8kHz – 24dB/octave | 2.5kHz – 24dB/octave; 9kHz – 24dB/octave |
| Low-Frequency Transducer | 165mm (6-1/2") with cast-aluminum frames, shielded | Dual 165mm (6-1/2") with cast-aluminum frames, shielded | Dual 200mm (8") with cast-aluminum frames, shielded | Dual 165mm (6-1/2") with cast-aluminum frames, shielded |
| High-Frequency Transducer | 50mm (2") Pure-titanium compression driver; Bi-Radial® horn | 50mm (2") Pure-titanium compression driver; Bi-Radial® horn | 50mm (2") Pure-titanium compression driver; Bi-Radial® horn | 50mm (2") Pure-titanium compression driver, shielded; Bi-Radial® horn |
| Ultrahigh-Frequency Transducer | 19mm (3/4") Polyester-film ring radiator; neodymium magnet; EOS waveguide | 19mm (3/4") Polyester-film ring radiator; neodymium magnet; EOS waveguide | 19mm (3/4") Polyester-film ring radiator; neodymium magnet; EOS waveguide | 19mm (3/4") Polyester-film ring radiator; neodymium magnet; EOS waveguide |
| Dimensions With Grille (H x W x D) | 499mm x 222mm x 343mm (19-5/8" x 8-3/4" x 13-1/2") | 1017mm x 222mm x 343mm (40" x 8-3/4" x 13-1/2") | 1117mm x 259mm x 418mm (44" x 10-3/16" x 16-1/2") | 230mm x 672mm x 235mm (9" x 26-1/2" x 9-1/4") |
| Weight per Speaker | 13.5kg (29.8 lb) | 26.6kg (58.6 lb) | 35.6kg (78.5 lb) | 14.4kg (31.7 lb) |

LS SERIES SPECIFICATIONS.



LS120P

| | |
|------------------------------------|--|
| Frequency Response | 25Hz – 150Hz |
| Amplifier RMS Power | 400W |
| Amplifier Peak Dynamic Power† | 700W |
| Crossover Frequencies | 50Hz – 150Hz; 24dB/octave, continuously variable |
| Driver | 300mm (12") PolyPlas™ |
| Dimensions With Grille (H x W x D) | 510mm x 375mm x 438mm (20-1/16" x 14-3/4" x 17-1/4") |
| Weight | 25.8kg (57 lb) |

* The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

† The Peak Dynamic Power is measured by recording the highest center-to-peak voltage measured across the output of a resistive load equal to minimum impedance of the transducer, using a 50Hz sine wave burst, 3 cycles on, 17 cycles off.



**PRO SOUND
COMES HOME™**

Harman Consumer Group, Inc.
250 Crossways Park Drive, Woodbury, NY 11797
8500 Balboa Boulevard, Northridge, CA 91329

www.jbl.com

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Designed, edited and digitally produced by the Harman Consumer Group Marketing & Design Center, Woodbury, NY, USA.