

Studio Monitors



JBL has more experience in designing and building transducers for professional studio monitors than any other company. We not only use the latest engineering and design equipment, but also the most important test device of all, the human ear. We believe in physics, not fads, so while other companies pick parts off somebody else's shelf, we create our components from scratch. And by utilizing more than 50 years of experience in transducer design, we create the perfect transducer for each system.

In the great tradition of JBL Studio Monitors, we are pleased to offer the LSR6300 Series—the latest in transducer and system technology combined with recent breakthroughs in research and development to provide a more accurate studio reference.

The Linear Spatial Reference (LSR) philosophy is based on a set of design goals that carefully control the overall performance of the system in a variety of acoustic spaces. Instead of focusing on a simple measurement such as on-axis frequency response, JBL measures system in a field 360 degrees around the speaker and engineers the entire system to ensure off-axis response reflected to the mix position is also smooth and accurate. Then JBL goes a step further to overcome problems caused by low frequency room modes which plague mix engineers. A JBL first, the RMC™ Room Mode Correction system is included in the LSR6300 Series monitors. The RMC system includes everything needed to analyze LF problems and restore accuracy at the mix position.

The LSR Series

- ① LINEAR SPATIAL REFERENCE DESIGN
- ② RMC™ ROOM MODE CORRECTION
- ③ MOUNTING POINTS FOR INDUSTRY STANDARD MOUNTING HARDWARE
- ④ BALANCED AND UNBALANCED INPUTS WITH +4 dBu, -10 dBv SENSITIVITY
- ⑤ EXCELLENT ON- AND OFF-AXIS PERFORMANCE
- ⑥ HIGH SPL CAPABILITY

The JBL LSR6300 Series goes “beyond accurate” all the way to “stunning” by incorporating features which reduce the effect of problems in the room. We start with patented JBL transducer and network technologies that provide ultra-flat response and exceptional dynamic range. Then we incorporate features which help to overcome the contributions of the room. So even if you work in a small home studio, you’ll have clear sound at the mix position. All LSR models are engineered for use in the most demanding production environments. With JBL’s LSR6300 Series, mixing is a pleasure.

It takes more than an accurate speaker system to have accurate response at the mix position. Problems in the room dramatically color what you hear at the mix position. Walls and corners can affect response. And standing waves at the mix position can lead you to misjudge bass content. As a result, a speaker which measures flat in an anechoic chamber may “tell you a different story” in the room. The key to accuracy is tackling the effect of boundaries, standing waves and reflections. In developing the LSR6300 Series, JBL examined each problem in the environment and created the perfect solution. Even if you work in a small control room, an LSR system will provide smooth accurate response at the mixer’s chair.

LSR (Linear Spatial Reference Technology)

Much of what you hear at the mix position is reflexed—not direct sound. Linear Spatial Reference Technology ensures mid and high frequency response of our speakers is neutral at the mix position. The exact geometry of the waveguide, the interaction of the woofer and tweeter, and the network are designed to provide an accurate listening window of ± 30 degree horizontal, ± 15 degree vertical. As a result, the reflected sound which reaches the mix position is smooth and accurate.

RMC™ (Room Mode Correction)

Room modes or standing waves can mislead you – give you a false impression of low frequency content in the mix. JBL is first to supply a complete solution for identifying and overcoming the negative effect of room modes. The LSR6328P and LSR6312SP are equipped with RMC™, JBL’s ingenious Room Mode Correction System. The LSR6300 RMC Calibration kit includes everything needed to identify room modes and set the LSR6300 series on-board parametric equalizer. The system dramatically improves low frequency performance at the mix position.

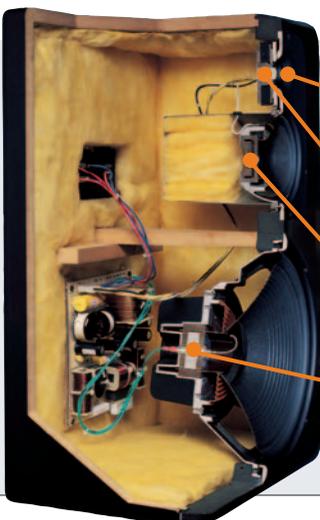
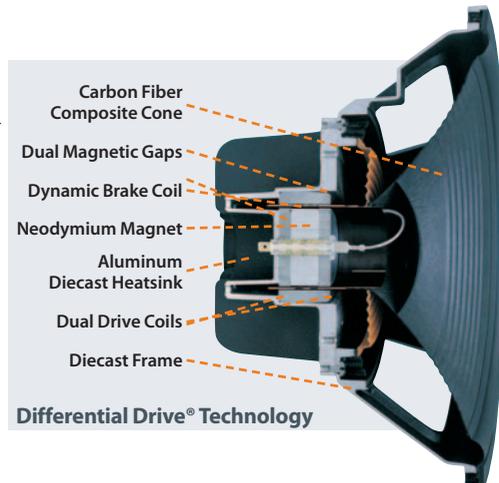
Built-in Boundary Compensation

With the advent of multi-channel production, space limitations may compromise the positioning of the speakers. JBL’s powered LSR6300 models include boundary compensation switches to offset the increase in bass response, that occurs when the speaker is placed near a wall, in a corner or on a work surface.

Stunning Sound

Starting with application-designed and built transducers engineered for extremely accurate response and superb power handling, the stunning sound of the LSR6300 monitors make long mix sessions a pleasure. The LSR6300 line* incorporates the single most significant advance in monitor history: JBL’s patented Differential Drive Technology. Providing unparalleled performance, the woofer permanently dispels the notion that better linearity, higher power handling and greater dynamic accuracy are somehow unobtainable. JBL’s Differential Drive uses two drive coils with twice the thermal surface area of traditional speakers. As a result, LSR6300 systems provide higher peak output with less spectral shift that causes monitors to sound different when driven at different power levels. All LSR Series speakers withstand the JBL loudspeaker torture test driven at full rated power for over 100 hours. Meeting higher standards than any other loudspeaker manufacturer, JBL’s demanding test ensures that the LSR Studio Monitors give you accurate mixes year after year.

* (LSR6328P, LSR6332, LSR6312SP)



LSR6332

Elliptical Oblate Spheroidal (EOS) Waveguide
Designed for a targeted listening window of ± 30 degrees horizontally and ± 15 degrees vertically, the EOS provides smooth response through the entire listening window within 1.5 dB of the on-axis response. The result: The listener, even far off-axis, can hear an accurate representation of the on-axis response.

Composite High Frequency Device
The 1" magnetically shielded dome high frequency device incorporates titanium and composite materials to improve transient response and reduce distortion. The result: By reducing distortion in the lower operating range where the human ear is most sensitive, listener fatigue is dramatically reduced.

500G Midrange Transducer
The midrange is a 2" neodymium motor with a 5-inch woven Kevlar™ cone. The powerful motor structure was chosen to support the low crossover point to the woofer. In order to achieve the goal of accurate spatial response, the crossover points match the directivity characteristics of the three transducers for optimum spatial response. The result: Absolute pinpoint accuracy.

Dynamic Braking
LSR6300 low frequency transducers are equipped with an electromagnetic braking coil that reduces the effects of extreme excursion with high transient material. This causes more linear compliance resulting in lower distortion, more accurate reproduction and increased reliability.



Reinforced mounting points on each speaker allow convenient positioning and installation of multi-channel surround systems for any mixing application, in any studio environment.

key features

- LINEAR SPATIAL REFERENCE DESIGN
- THX pm3® APPROVED
- INTEGRATED MOUNTING POINTS
- RMC™ ROOM MODE CORRECTION SYSTEM
- PATENTED DIFFERENTIAL DRIVE® TECHNOLOGY

LSR6300 Series



LSR6325P

The compact **LSR6325P** provides exceptional performance for use in applications where accuracy is a must, but space is limited. With a 5.25" high-excursion woofer, 1" damped titanium composite tweeter, and 150 Watts of amplification, it outperforms many larger systems. A boundary compensation setting adjusts response when used on workstation surfaces. When used with the LSR6312SP Subwoofer, the LSR6325P is the heart of an exceptionally accurate yet space efficient full-range system.

LSR6328P

The **LSR6328P** is THE choice for stereo and multi-channel music and post audio applications where accuracy and high SPL are required. With ruler-flat +1 dB/-1.5 dB response from 50 Hz to 20 kHz, low frequency extension to 36 Hz, boundary compensation and JBL's new RMC™ system, the LSR6328P gives you exceptional low frequency performance in any room. The system is bi-amplified with a 250 Watt LF amplifier and a 120 Watt HF amplifier. Based around JBL's patented 8" Differential Drive® carbon-fiber woofer and a 1" titanium composite tweeter, the system produces smooth response and extraordinary SPL. Wall mounting provisions make the LSR6328P perfect for installation in multi-channel editorial rooms.



LSR6325P



LSR6328P



LSR6332



LSR6312P

LSR6332

If you need a larger monitor with high SPL, for mid-field, soffit or behind the screen applications, the **LSR6332** is your choice. This three-way non-powered system can handle 200 Watts continuous pink noise/800 Watts peak and will generate 112 dB SPL at 1 meter. The LSR6332 incorporates a 12" neodymium Differential Drive dual coil woofer, 5" Kevlar™ midrange speaker and 1" titanium composite tweeter. The system is exceptionally flat, +1 dB/-1.5 dB from 60 Hz to 22 kHz with LF extension to 35 Hz. User features include a -1 dB HF level setting, and dual 5-way binding posts for bi-wire capability.

LSR6312SP

The **LSR6312SP** powered subwoofer is based on a 12" woofer with JBL's patented neodymium Differential Drive and 260 Watts of power. An integral bass-management system provides all the features you need for today's multi-format surround production including: LCR and Direct LFE inputs, summed output for chaining multiple subwoofers, -4 dB alignment setting, and JBL's new RMC Room Mode Correction system. RMC Calibration Kit included.



RMC™ (Room Mode Correction) Calibration Kit

The LSR6328P and LSR6312SP Subwoofer are equipped with RMC—JBL's ingenious method of zeroing-out bass problems at the mix position caused by room modes. A built-in 1/10th octave parametric equalizer allows you to correct problems below 100 Hz. The RMC Calibration Kit gives you everything you need to identify problematic room modes and tune your system. The LSR6325P and LSR6332 enjoy the benefits of RMC when used in a system with the LSR6312SP Subwoofer.

specifications

	LSR6325P	LSR6328P	LSR6332	LSR6312P
FREQUENCY RESPONSE	70 Hz - 20 kHz (+1, -2 dB)	50 Hz - 20 kHz (+1, -1.5 dB)	60 Hz - 22 kHz (+1, -1.5 dB)	28 Hz - 80 Hz (-6 dB)
LOW FREQUENCY EXTENSION	-10 dB : 48 Hz	-10 dB : 36 Hz	-10 dB : 35 Hz	-10 dB : 26 Hz
AMPLIFIER POWER (LF/HF)	100 W/50 W	250 W/120 W		260 W
SPL (CONTINUOUS/PEAK) (1 m)	106 dB/109 dB	108 dB/111 dB		112 dB/115 dB
LONG-TERM MAXIMUM POWER			200 W cont/800 W peak	
DRIVERS (LF, MF, HF)	5.25 in/1 in	8 in/1 in	12 in/5 in/1 in	12 in
SENSITIVITY 1m (+4 dBU, -10 dBV)	96 dB	96 dB	93 dB/2.83V/1 m (90 dB/1 W/1 m)	96 dB
SYSTEM IMPEDANCE			4 ohms	
CROSSOVER FREQUENCIES	2.3 kHz	1.7 kHz	250 Hz/2.2 kHz	80 Hz
HF ADJUSTMENT	+1.5 dB/-1.5 dB	+1 dB/-1 dB	-1 dB	
INPUTS	Bal XLR, +4 dBU, Unbal RCA -10 dBV	XLR, 1/4" Balanced, +4 dBU, -10 dBV	Dual 5-Way Binding	XLR, 1/4" Balanced, +4 dBU, -10 dBV
MAGNETIC SHIELDING	Yes	Yes	Yes	Yes
MOUNTING CAPABILITY	Yes	Yes	Yes	Yes
FINISH	Dark Graphite	Dark Graphite	Dark Graphite	Dark Graphite
DIMENSIONS (W x H x D)	173 x 269 x 241 mm (6.8 x 10.6 x 9.5 in)	406 x 330 x 325 mm (16 x 13 x 12.5 in)	635 x 394 x 292 mm (25 x 15.5 x 11.5 in)	635 x 394 x 292 mm (25 x 15.5 x 11.5 in)
NET WEIGHT (each)	7.7 kg (17 lb)	17.7 kg (39 lb)	20.4 kg (45 lb)	22.7 kg (50 lb)

4400 Series



The 4400 Series Studio Monitors play a major role in the audio industry. Recording, broadcast, movie and television studios worldwide rely on the 4400 Series monitors as the critical listening source. These industry standards utilize JBL transducer technology with SFG™ magnet structures, large diameter voice coils and a titanium dome tweeter. 4400 Series monitors are sold in mirror imaged pairs.

The 4408A with its 8" low-frequency transducer, is a compact two-way system ideal for the smaller recording studio or for broadcast control rooms.

The 4410A is a three-way system, with a 10" low-frequency transducer, designed as a vertical line array. This system delivers incredibly fine transient response characteristics and spatial detail.

The 4412A is a three-way system ideal for applications requiring maximum low-frequency output from a bookshelf-sized monitor. With its 12" low-frequency transducer and tight transducer complement, the 4412A is a great all-purpose monitor for any application.

specifications

	4408A	4410A	4412A
FREQUENCY RESPONSE	50 Hz - 20 kHz (± 2 dB)	45 Hz - 20 kHz (± 2 dB)	45 Hz - 20 kHz (± 2 dB)
POWER CAPACITY	100 W (IEC)	125 W (IEC)	150 W (IEC)
SENSITIVITY: 1 W, 1 m	89 dB SPL	90 dB SPL	89 dB SPL
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms
CROSSOVER FREQUENCY	2.5 kHz	900 Hz, 4 kHz	850 Hz, 4 kHz
TRANSUCERS: LF	200 mm (8 in)	250 mm (10 in)	300 mm (12 in)
MF		125 mm (5 in) cone	125 mm (5 in) cone
HF	25 mm (1 in)	25 mm (1 in)	25 mm (1 in)
MAGNETIC SHIELDING	Yes	Yes	Yes
DIMENSIONS (H x W x D)	438 x 305 x 293 mm	597 x 362 x 286 mm	362 x 597 x 286 mm
NET WEIGHT (each)	12 kg (26 lb)	19 kg (43 lb)	21 kg (47 lb)