



4312 E STUDIO MONITOR

The next-generation JBL® monitor

The JBL® 4312 E studio monitor is the direct descendent of the legendary Model 4320, the original JBL monitor that forever changed audio recording, introduced in 1968. As you would expect of a true JBL studio monitor, the 4312 E delivers crisp, powerful bass at all listening levels with a massive 300mm (12-inch) woofer driven by a Differential Drive® (U.S. patent no. 5,748,760 and other patents pending) dual 75mm (3-inch) voice-coil assembly. A 125mm (5-inch) pure-pulp cone and 25mm (1-inch) copper voice coil with Kapton® bobbin realistically reproduce the full dynamics of vocal performances with low distortion, even at the highest listening levels. A 25mm (1-inch) tweeter with a magnesium/aluminium alloy dome extends HF response far beyond the audible range of the human ear. Built in mirror-image pairs to create the detailed, coherent stereo soundstage that studio monitors must, the JBL 4312 E exceeds the expectations of critical listeners and music professionals alike, providing a listening experience of such richness and subtlety that it cannot be compared to anything but a live performance.

TECHNICAL SPECIFICATIONS

Low-frequency transducer:	300mm (12") neodymium Differential Drive cone driver with dual 75mm (3") voice coils, cast-aluminium frame and an Aquaplas-coated cone (2213Nd-2)
Midrange transducer:	125mm (5") polymer-coated, pure-pulp cone driver (105H-1)
High-frequency transducer:	25mm (1") magnesium/aluminium alloy dome (054ALMg-1)
Recommended amplifier power:	200 watts RMS
Frequency response:	40Hz – 40kHz (–6dB)
Nominal impedance:	6 ohms
Sensitivity:	93dB (2.83V/1m)
Crossover frequencies:	2000Hz, 5000Hz

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TECHNICAL SPECIFICATIONS (continued)

Controls:	Attenuators for MF and HF drivers
Enclosure type:	19mm (3/4") particle board (PB) with 19mm (3/4") medium-density fibreboard (MDF) baffle, ported, shipped in mirror-image pairs
Connector type:	Five-way binding posts
Finish:	Pebble-texture black vinyl
Grille colour:	Black
Dimensions (H x W x D):	597mm x 362mm x 300mm (23-1/2" x 14-1/4" x 12")
Weight:	17.9kg (39.5 lb)

HIGHLIGHTS

2213Nd-2 Low-Frequency Transducer

A 300mm (12-inch) woofer cone with a Differential Drive dual 75mm (3-inch) voice-coil assembly delivers deep, crisp bass at all listening levels. Dual neodymium magnets in push-pull configuration maintain precise control over the cone's motion and dissipate heat more effectively than conventional magnetic assemblies for low-distortion, high-output performance. The die-cast aluminium frame further dissipates heat, increasing power handling, and the shallow, Aquaplas-coated cone is optimally damped to reduce distortion.

105H-1 Midrange Transducer

A 125mm (5-inch) polymer-coated, pure-pulp cone with a 25mm (1-inch) copper voice coil with Kapton bobbin combine to produce flat response with low distortion and increased power handling for more dynamic performance at high listening levels. A die-cast frame minimizes back pressure for more linear motion, lower distortion and more natural-sounding reproduction of voices.

054ALMg-1 High-Frequency Transducer

A 25mm (1-inch) magnesium/aluminium alloy dome produces realistic dynamics far beyond the range of human hearing, with ultrasoft response that is ideal for SACD™ and other high-resolution audio formats. A shallow horn and phase plug ensure the HF sound is distributed evenly over a wide listening area.

FEATURES

- The loudspeakers are configured in mirror-image pairs to create a focused stereo soundstage ideal for monitor applications. Extremely rigid, heavily braced enclosures of 19mm (3/4-inch) PB with 19mm (3/4-inch) MDF baffles ensure that the transducers are held in precise alignment
- Front-mounted port provides optimal woofer tuning for extended bass response and permits speaker to be placed against a wall
- Continuously variable MF and HF attenuators let users tailor driver output to suit room acoustics or personal preference
- Five-way binding-post connectors permit the use of any type of wire and termination
- Pebble-texture black vinyl finish with silkscreened JBL logos

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Features, benefits and appearance are subject to change without notice.



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FEATURES

ADVANTAGES

BENEFITS

2213ND-2 LOW-FREQUENCY TRANSDUCER

300mm (12-inch), optimally damped, Aquaplas-coated woofer cone	Reduced distortion	• Deep, crisp bass at all listening levels
Differential Drive dual 75mm (3-inch) voice-coil assembly	Dissipates heat more effectively than conventional motor assemblies	• Low-distortion, high-output performance
Dual neodymium magnets in push-pull configuration	Generates tremendous magnetic energy while maintaining linear cone motion	• Low-distortion, high-output performance
Die-cast aluminium frame	Effective heat dissipation	• Increased power handling

105H-1 MIDRANGE TRANSDUCER

A 125mm (5-inch) polymer-coated pure-pulp cone with a 25mm (1-inch) copper voice coil with Kapton bobbin	Flat response with low distortion and increased power handling	• More dynamic performance at high listening levels
Die-cast frame	Minimises back pressure for more linear motion and lower distortion	• More natural-sounding reproduction of voices

054ALMG-1 HIGH-FREQUENCY TRANSDUCER

25mm (1-inch) magnesium/aluminium alloy dome	Realistic dynamics and ultrasmooth response beyond the range of human hearing	• Ideal for SACD™ and other high-resolution audio formats
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OTHER FEATURES

Loudspeakers configured as mirror-image pairs	Creates a focused stereo soundstage	• Ideal for monitor applications
Heavily braced 19mm (3/4-inch) PB (particle-board) enclosures with 19mm (3/4-inch) MDF (medium-density fibreboard) baffles	Ensures that the transducers are held in precise alignment	• Reduces unwanted internal resonances
Front-mounted port	Optimal woofer tuning for flat response; speaker may be placed against wall	• Extremely low distortion, increased installation flexibility
Continuously variable MF and HF attenuators	Driver output can be precisely tailored to suit room acoustics or personal preferences	• Your music your way
Five-way binding-post connectors	Permits the use of any type of wire and termination	• Maximises connection options
Pebble-texture black vinyl finish with silkscreened JBL logos	Rugged, professional look	• Durability