

Array Series

Key Features:

► **Two Configurations**

Vertical format for minimum footprint, and a Horizontal version for minimum height.

► **High Technology Transducers**

355 mm (14 in) Ultra-low Distortion Neodymium Woofer with Unique Gap Topology 38 mm (1.5 in) exit, 100 mm (4 in) diaphragm Neodymium Compression Driver.

► **Versatile Coverage**

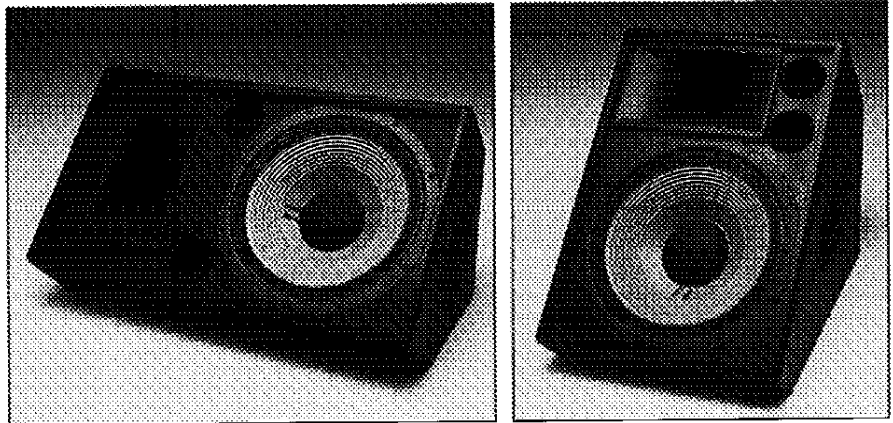
60° x 40° horn that rotates in the 4890, and 45° cabinet angles provide optimum coverage for any application. Horn may be horizontally or vertically oriented in the 4890.

► **Integrally Designed with JBL Array Series Controllers**

Choose Analog, or Digital Controller for optimum system performance

Array Series Stage Monitors

JBL's commitment of providing audio professionals the best tools for their work continues with the Array Series Stage Monitors. These systems provide ultimate performance for critical monitoring situations that require high quality sound at high SPL. Both models are very compact to allow unobtrusive presence on stage while providing smooth, predictable coverage and response from a single box or multiple boxes. Their linear amplitude and phase response increases the headroom before feedback. Integration of advanced design high power transducers, a new generation of horns, and advanced control electronics provides clearly superior performance. Reliability is designed in without having to rely on intrusive signal processing.



Specifications:

All specifications are with required DSC 490 Digital or ASC 24 Analog Controller.

Frequency Response ¹ (± 3 dB):	70 Hz - 18 kHz
Sensitivity:	98 dB (1 W, 1 m)
Maximum Continuous SPL _s (Peak):	129 dB, (132 dB)
Recommended HE Amplifier Power:	300 W @ 8Ω
Recommended L.F. Amplifier Power:	600 W @ 8Ω
Nominal Coverage:	
4890:	60° horizontal, 40° horizontal, 60° vertical
4891:	60° horizontal, 40° vertical
High Frequency Transducer:	2450 SL 38 mm, (1.5 in) Compression driver, 8Ω, 100 mm (4 in) voice coil, pure titanium diaphragm, neodymium magnet
Power Rating: 75 W AES, 1 kHz to 10 kHz, 300 W peak	
High Frequency Horn	Optimized Aperture Flat-Front Bi-Radial ¹ , die cast aluminum
Coverage:	60°, 40°
Low Frequency Transducer:	1400 PRO 355 mm (14 in) Ultra linear, neodymium magnet motor, Vented Gap Cooling, 8Ω, 100 mm (4 in) voice coil
Power Rating:	600 W AES, 50 Hz to 500 Hz, 2400 W peak
Enclosure:	19 mm (.75 in), 13 ply, 45° angle, handles
Connectors:	Parallel 8 pin Neutrik pins 1 ± LF, Pins 3 ± HF
Dimensions H x W x D:	
4890:	376 x 686 x 376 mm (14.8 x 27 x 14.8 in)
4891:	470 x 394 x 559 mm (18.5 x 15.5 x 22 in)
Net Weight:	
4890:	34 kg (75 lb)
4891:	34 kg (75 lb)
Finish:	Black textured paint
Grille:	16 ga. perforated steel, foam backed

¹ Half Space measurement

► 4890, 4891 Compact Two-Way Stage Monitor

Components

Array Series builds upon a solid foundation: more than 40 years of JBL transducer expertise and engineering. The 355 mm (14 in) low frequency transducer represents JBL's commitment to research. New technology includes a unique deep copper-sleeved gap low-distortion motor structure topology, coupled to Vented Gap Cooling (VGCTM)¹ to produce the accurate reproduction at high power levels with minimal power compression. A new 38 mm (1.5 in) exit neodymium high frequency compression driver with Coherent Wave™ phasing plug and 100 mm (4 in) titanium diaphragm with diamond surround topology² delivers low distortion response to beyond 20 kHz. A 60° Optimized Aperture Flat-Front Bi-Radial® horn³ provides accurate pattern control over its entire bandwidth.

Versatile Coverage

To help the monitor engineer survive the many challenges he faces, these systems use a 60° by 40° controlled coverage horn combined with a 45° cabinet angle. Additional flexibility is built in to the 4890, its horn is mounted on a plate that rotates to position the horn in its vertical position for 40° wide by 60° vertical coverage, or at a horizontal position for 60° wide by 40° vertical to precisely provide coverage to the required zone without spilling sound into unwanted areas.

Active Control

The ASC24 provides cost effective analog signal processing with simple setup. The DSC280 offers additional precision, flexibility, and user convenience available only in the digital domain. Both provide superior high level sound quality.

Enclosure

Extremely rigid 19 mm (.75 in) 13 ply hardwood, a textured black paint finish, and a perforated 16 ga. steel grille form a durable package.

Applications

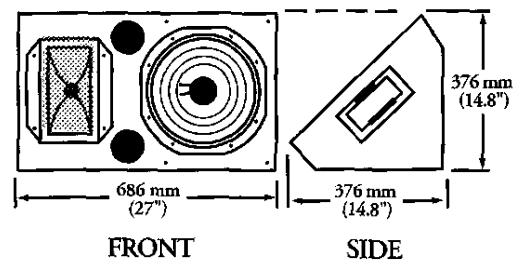
The 4890 and 4891 are ideal for on stage applications requiring high fidelity reproduction at any SPL. Size, shape, and performance allow invisible use.

¹U.S. Patent #5,042,072

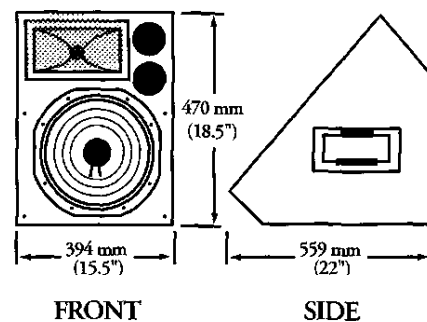
²U.S. Patent #4,324,312

³U.S. Patent #4,308,932

4890 DIMENSIONS



4891 DIMENSIONS



ALL DIMENSIONS ARE REF. ONLY
*Note: DIMENSIONS ARE IN MILLIMETERS (INCHES)

**Note: DRAWINGS NOT TO SCALE



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SS 4890, 4891
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