HIGHLIGHTS

NEXT-GEN LOUDSPEAKER TECHNOLOGY

Innovative passive two-way design for ultra-low distortion and seamless horizontal directivity.

JBL TRANSDUCERS

Custom HF driver with extended low frequency response for perfect directivity match between LF and HF sections.

INNOVATIVE RIGGING SYSTEM

Patented auto-locking rigging system for quick, easy, and accurate deployment of integrated systems.

AMPLIFICATION

Up to 16 speakers can be connected to a single four-channel amplifier, minimizing power requirements while saving space.

The A6 line array element brings our flagship VTX A-Series technologies to a subcompact form factor for small to medium-sized touring systems and fixed installations. The fully passive, two-way loudspeaker is a versatile solution for production companies, touring acts, rental houses, theaters and houses of worship, or anyone who demands superior sound reinforcement at any scale. Like all VTX products, the A6 is engineered for stunning sonic performance and ease of integration and deployment, as a standalone solution or as a supplement to larger VTX systems. The A6 houses two custom 6.5-inch woofers and a three-inch annular diaphragm compression driver and features all of the acoustic innovations that are hallmarks of the VTX series, from the patented Radiation Boundary Integrator™ (RBI) to our proprietary Differential Drive® woofers. The A6 uses the industry-leading VTX A-Series rigging system, and a suite of available accessories allows a range of flown, ground-stacked, and installed configurations.

KEY MESSAGES

INSIDE THE INNOVATIONS

The A6 acoustic design is centered around the RBI technology, which places both the high and low frequency transducers on a single unified horn, improving horizontal directivity while reducing size. Specifically placed, low frequency projection apertures seamlessly integrate the woofers onto the high frequency horn, and the positioning and spacing of the apertures control the LF horizontal directivity, ensuring proper transition to the high frequency driver. The unusually large unified horn extends to the edges of the cabinet, providing ample loading for the compression driver and extending its usable operating range below 1 kHz. The result is a passive two-way system that exhibits performance characteristics of larger three-way designs.

HIGH FREQUENCY SECTION

The A6 uses an innovative high frequency section that integrates the compression driver, phasing plug, and waveguide into a single unified device. The three-inch lightweight, polymer annular diaphragm reduces mass and improves high frequency extension. The V-shape of the diaphragm reduces breakup modes that cause distortion and time smear. A unique sinusoidal-shaped exit provides multiple paths, ensuring sound from the entire diaphragm reaches the waveguide entrance. The large diaphragm offers better low frequency extension, allowing for a lower crossover point and providing a perfect directivity match between the LF and HF sections. The A6 HF section shares the same materials and design as the A8 and A12, maintaining the A-Series HF sound signature and providing common voicing across the family.

INNOVATIVE RIGGING SYSTEM

The A6 uses the VTX A-Series' patented rigging system for accurate, easy deployment. Angles are set on the ground; once the system is suspended, a locking mechanism automatically secures cabinets in designated positions. Accessories allow for a wide range of flown, ground-stacked, and installed configurations.

TECHNICAL SPECIFICATIONS

ACOUSTICAL

Frequency Range[1]	
(-10 dB) :	67 Hz-20 kHz
(±3 dB) :	80 Hz-19 kHz
Coverage Pattern (-6 dB)	
Horizontal :	110 degrees nominal (500 Hz-16 kHz)
Vertical :	Varies with array size and configuration
Maximum Peak Output[2] :	134 dB
System Power Rating[3] :	350 Watts Continuous (IEC/100 hour)
System Type :	Line Array, two-way passive

AMPLIFICATION

System Amplification :	Crown iTech HD (all models) Crown iTech 4x3500HD
Required Amplifier Channels :	(1)
Number of Cabinets per Channel :	(4)
System Nominal Impedance :	10 ohms

TRANSDUCERS

Low Frequency :	(2) JBL 2186J, 6.5 in diameter, dual 2.5 in diameter voice coil, neodymium Differential Drive®
High Frequency :	(1) JBL 2433H, 3 in diameter annular diaphragm, 3 in diameter voice coil, neodymium compression driver

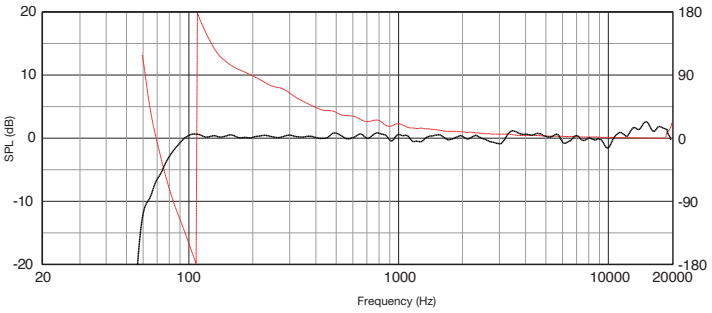
PHYSICAL

Enclosure :	12 mm 9-ply exterior grade birch plywood, black DuraFlex™ finish, four integral recessed handholds
Environmental Specifications :	IP55 (IEC 60529)[4] MIL-STD-810 UV (ASTM G154)
Suspension :	High-grade steel with anti-corrosion coating, captive suspension plates, quick release pins, auto-locking mechanism for setting angles
Inter-enclosure Angle (deg) :	0.5, 1, 1.5, 2, 3, 4, 6, 8, 10, 12, 15
Grille :	Powder coated 1.5 mm (16-gauge) hex perforated steel with acoustically transparent black cloth backing
Connectors	
Type :	(2) Neutrik® speakON® STXX Series NL4
Pin Assignments :	Selectable between Pin 1 ± and Pin 2 ±
Dimensions (H x W x D) :	190 mm x 536 mm x 301 mm 7.5 in x 21.1 in x 11.8 in
Net Weight :	18.4 kg (40.3 lbs)
Shipping Weight :	20.3 kg (40.8 lbs)

Footnotes:
1: Measured under full-space conditions using the VTX A6 FL 80 (fill) preset.
2: Peak, unweighted SPL, measured under full-space conditions at 1 meter using broadband pink noise with a 12 dB crest factor and using the VTX A6 80 array preset.
3: IEC Standard: IEC shaped noise with 6 dB crest factor based on nominal impedance and a duration of 100 hours. Continuous is defined as 2x RMS.
4: Front face at 0 degrees or greater down angle to allow the cabinet to drain water. Suspension components fully weather rated for indoor or covered outdoor conditions where humidity is nominally under 50% and not local to bodies of corrosive materials. Unused speakON connectors must be sealed using silicone to protect against water and moisture.

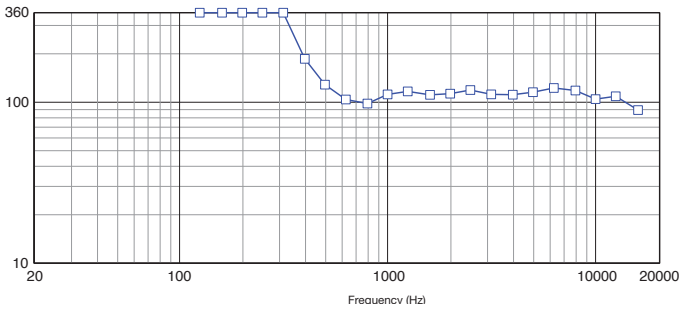
ACOUSTIC MEASUREMENTS

FREQUENCY RESPONSE



VTX A6 FL 80 — VTX A6 FL 80 Phase

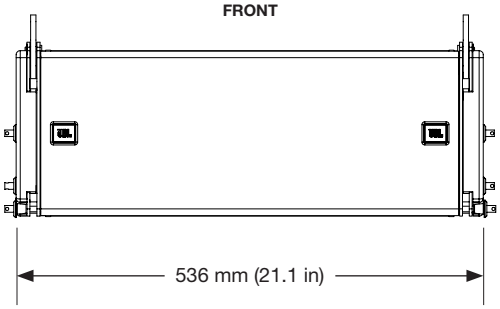
BEAMWIDTH



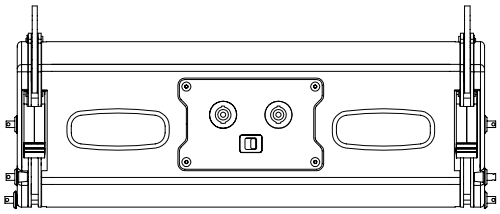
Horizontal Beamwidth (-6 dB)

DIMENSIONS

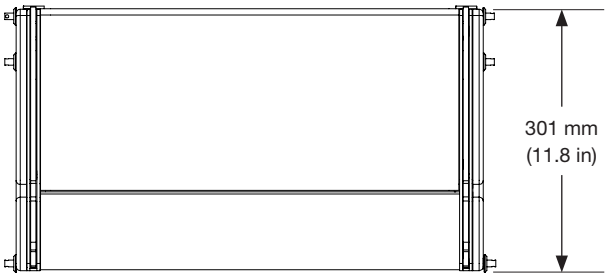
FRONT



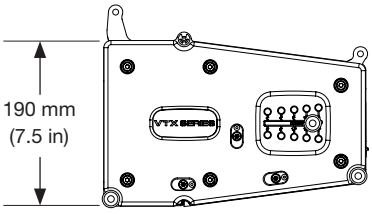
REAR



TOP/BOTTOM



LEFT/RIGHT



ORDERING INFORMATION

SKU : JBL-P3250MX | VTX A6

Included : (1) VTX A6

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.