VTX SERIES | F35/64

High Performance Dual 15” 3-Way Loudspeaker

SPECS

HIGHLIGHTS

PERFORMANCE

High output 3-way enclosure featuring the D2 Dual Diaphragm Dual Voice Coil high-frequency compression driver in a light-weight trapezoidal enclosure.

JBL TRANSDUCERS

Differential Drive™, Dual Neodymium Magnet, Dual Voice Coil, Direct Cooled™ MF and LF cone transducers.

VERSATILE

Multiple M10 attachment points facilitate a variety of suspension options. Rotatable mid-hi waveguide for use in either vertical or horizontal orientation. Included front-face dolly for easy transportation.

The VTX F35 was designed to address a wide range of applications where high-impact, high-fidelity audio needs to be delivered with the form factor of a trapezoidal full-range system. The F35 is the go-to choice for customers needing high-power side-fills, mains speakers, or a high-performance point-source solution to complement to larger VTX system systems. This system has an exceptional power-to-weight ratio thanks to its lightweight, Differential Drive 15” and 8” transducers, and benefits from proven JBL technologies, including a multi-band Progressive Transition Waveguide and the high-performance D2 high-frequency driver. The F35 ships with a detachable front-face dolly-board as standard and it is available in 60x40 or 90x50 coverage patterns. The cabinet is equally suitable for stackable and suspendable configurations thanks to the integrated M10 mounting points. The F35 is acoustically compatible with all other VTX Series systems, and it’s truly a flexible design that delivers uncompromising performance in a compact package.

KEY MESSAGES

PROGRESSIVE TRANSITION™ (PT) WAVEGUIDES

The F35 Progressive Transition Waveguides provide excellent coverage control and are rotatable so the loudspeaker system can be used in either the vertical or horizontal orientation. The distinctive feature of PT Waveguides is the lack of a traditional diffraction slot. Instead, the sidewalls transition smoothly from the driver’s throat through to the rectangular mounting flange. This translates to optimal frequency response superbly low distortion. The beamwidth and directivity are optimal in the horizontal plane while the vertical beamwidth was optimized to match with F35 low frequency and midrange transducers.

4-CHANNEL, 3-WAY DESIGN

The VTX F35 features a full 3-way design and utilizing 4-channels of amplification and DSP. The F35 was design to work best with Crown Audio I-Tech 4x3500HD amplifier and up to three cabinets can be connected to one amplifier.

DIFFERENTIAL DRIVE® TRANSDUCERS

Differential Drive transducers are using a creative reconfiguration of the basic elements of the low-frequency driver. Heat sinks are integrated into the driver’s cast aluminum frame, and the neodymium magnets are placed inside the driver’s dual voice coil assembly, completing the magnetic circuit without the heavy surrounding steel structure of conventional drivers. While dramatically reducing driver weight, all critical performance parameters are greatly enhanced: frequency response, power output and distortion. The resulting sound quality is extraordinarily transparent, even at very high SPL, while system weight and physical footprint can be reduced by as much as half when compared to conventional speaker systems. JBL’s Differential Drive technology is now at the core of all VTX Series loudspeakers from the large format Line Arrays to the VTX F35 and compact stage monitors.

TECHNICAL SPECIFICATIONS

SYSTEM	
Frequency Range (-10 dB):	39Hz - 18kHz (Preset: VTX F35/64)
Coverage Pattern (-6dB)	
Horizontal:	60 degrees nominal
Vertical:	40 degrees nominal
System Input Power Rating[1]	
LF :	2 x 800W Continuous (IEC/100 hour)
MF:	270W Continuous (IEC/100 hour)
HF:	100W Continuous (IEC/100 hour)
Maximum Peak Output[2]:	143dB (Preset: VTX F35/64)
System Amplification:	Crown Audio I-Tech HD (all models) Crown Audio I-Tech 4x3500HD
Required Amplifier Channels:	4-Channels Quad-Amp (LF/LF/MF/HF)
Number of Cabinets per Circuit:	3 x VTX F35
System Impedance	
LF :	2 x 8 ohms
MF :	8 ohms
HF :	8 ohms

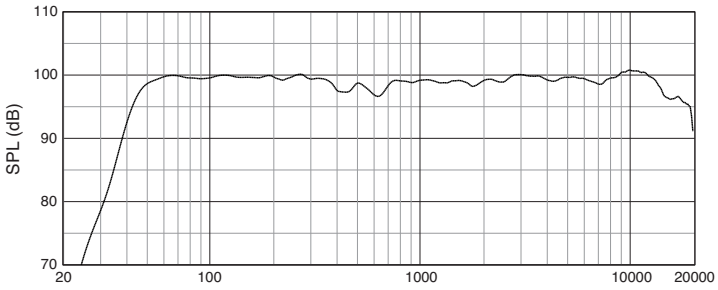
TRANSDUCERS	
Low Frequency :	2 x 2265H, 254 mm (15 in) diameter, dual 76 mm (3 in) diameter voice coil, NDD ®, Direct Cooled ™
Mid Frequency :	1 x 2169H, 203 mm (8 in) dia., 76mm (3 in) Dual Voice Coil, Neodymium Differential Drive®, Direct Cooled™
High Frequency :	1 x D2430H, D2 dual diaphragm, dual 76mm (3 in) diameter voice coil

ENCLOSURE	
Construction :	18 mm, 11-ply Baltic birch plywood; black DuraFlex™ finish; integral recessed handles
Suspension :	Integrated M10 mounting points
Grill :	Powder Coated 14 gauge hex-perforated steel with acoustically-transparent black cloth backing
Connectors	
Type :	Neutrik® SpeakON® NL-8 (2x)
Pin Assignments :	Pins 1 ± (LF), Pins 2 ± (LF), Pins 3 ± (MF), Pins 4 ± (HF)
Dimensions (H x W x D) :	1052.8 mm x 596.3 mm x 527.9 mm (41.4 in x 22.4 in x 20.8 in)
Net Weight :	52.6 kg (116 lbs)

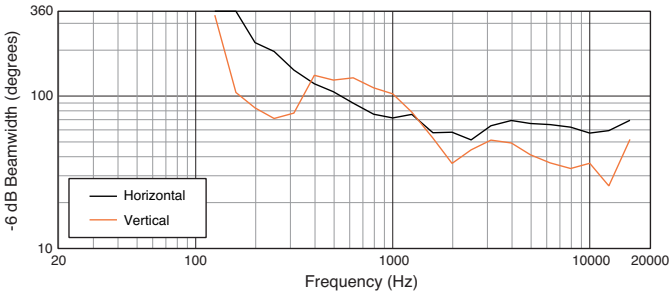
Footnotes:
1: IEC Standard: IEC shaped noise with 6dB crest factor based on nominal impedance and a duration of 100 hours. Continuous is defined as 2x RMS.
2: Peak, unweighted SPL, measured under full-space conditions at 1 meter using broadband pink noise with a 12dB crest factor and specified preset.

ACOUSTIC MEASUREMENTS

FREQUENCY RESPONSE



BEAMWIDTH



DIMENSIONS