



VT4882DP

Dual 15" Self-Powered
Subwoofer, Integrated
Audio System



VT4882DP-AN (Optional network input module)

VT4882DP-CN (Optional network input module with digital audio)

VERTEC® DP Series

Application:

The self-powered VT4882DP Dual 15" Subwoofer is designed to deliver high quality sound reinforcement of sub-low frequencies for live music and a variety of other applications. Typical uses include concert audio and multi-media presentations of all types. Ideal companion to VT4888 or VT4888DP midsize three-way systems.

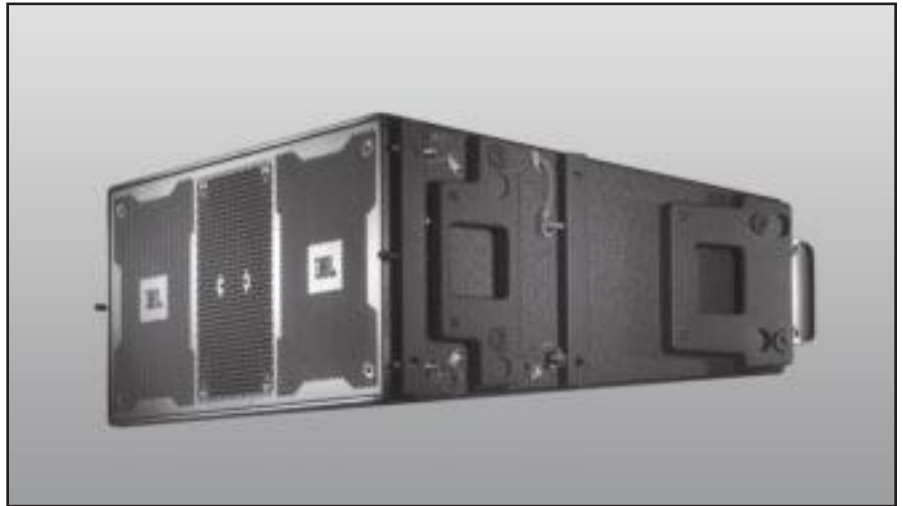
Key Features:

- ▶ Advanced technology components: Differential Drive®, neodymium magnet, dual voice coil, Direct Cooled™ cone transducers for low weight and high output
- ▶ JBL DrivePack™ DP3 electronics package delivers superb audio quality and robust high efficiency Class-I power, perfectly matched to the enclosures, with comprehensive digital signal processing and a modular bay that accepts standard dbx, or optional Crown, networked input modules.
- ▶ World-wide AC line voltages are automatically selected for 50 or 60 Hz
- ▶ Advanced construction techniques using JBL PlyMax™ provide exceptionally rigid, lightweight enclosure construction
- ▶ Rugged DuraFlex™ exterior finish; weatherized components
- ▶ Integrated S.A.F.E.™ suspension system: premium heat-treated alloys provide rigid, reliable hanging arrays

The VT4882DP is a self-powered, lightweight, centrally vented sub-woofer enclosure housing two long extension 15" woofers and a JBL DrivePack™ DP3 fully integrated power and DSP electronics package. The DrivePack DP3, developed in harmony with Harman Professional development partners, brings to the VERTEC DP Series cutting-edge technologies such as patented high efficiency Class-I power amplifier technology from Crown and onboard digital signal processing that gives not only unmatched audio quality and performance but also onboard DSP functionality that communicates readiness and operational status and monitors fault detection of components and electronics.

Advanced 15" LF components, each fitted with dual voice coils, provide high output capabilities with an advantageous power-to-weight ratio. Enclosure features: foam-back perforated steel grille; speaker cones treated with weather-resistant compounds; rigging tubes and hinge bars made from premium-grade alloy aluminum; cadmium-plated hinge pins; stainless steel quick-release pin restraining lanyards; and protective end-caps which safeguard the suspension hardware while allowing vertical stacking of multiple interlocking units.

VT4882DP rigging hardware (same as in the companion midsize VT4888DP full-range system) relies on quick-release pins and end-mounted metal frames to couple adjacent units together in rigid but flexible arrays. Enclosures can also be stacked vertically using the integral end-mounted pads.



Specifications:

Frequency Response:	32 Hz – 110 Hz (±3 dB)
Frequency Range:	28 Hz – 120 Hz (-10 dB)
Maximum Peak Output:	133 dB SPL, 1m
Transducers	
Low Frequency:	Two 2266H, 381 mm (15 in) dia., 76 mm (3 in) Dual Coil, Differential Drive®, Direct Cooled
Nominal Impedance:	8 Ohms each transducer
System	
DP3 Internal Amplification Output (at nominal load):	3400W Peak, 1700W Continuous
DP3 LF Output Section:	2-Channel Class-I Output at nominal load: 118V peak
Signal Processing:	DSP based, resident in Input Module. See page 2 for input module specifications
System Management:	DSP based limiters for mechanical and thermal protection
AC Power Operating Range:	Auto Select 90-132VAC/216-264VAC, 50/60 Hz
AC Line Voltage:	50/60 Hz, Auto-Detect; 120V / 240V (-15%, +10%)
AC Input Connector:	Neutrik PowerCon
AC Power Loop-thru:	Neutrik PowerCon
AC Current Requirement:	6A per system at 120V, 3A per system at 240V
Enclosure:	
Box Construction:	Wedge frustrum 5 degree side angle enclosure. PlyMax™ engineered composite structure. DuraFlex™ finish
Suspension System:	S.A.F.E. hardware, integral hinge bars nest in rigging tubes on box ends. Quick release pins with restraining lanyards. Suspend with VT4888-AF Array Frame. Set of 4 hinge bars (VT4888-RIG) included with VT4882 DP system.
Grille:	Black perforated steel, Foam backed
Dimensions (W x H x D):	1013 mm X 457 mm X 1011 mm (39.9" X 18" X 39.8")
Net Weight:	69.9 kg (154 lb)
Shipping Weight:	85.4 kg (188 lb)

¹AES Standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long term 100 hr rating are specified for cone transducers.

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.

► VT4882DP Dual 15" Self-Powered Subwoofer, Integrated Audio System

Input module characteristics and options

Features

Description	DPIP (standard input module) input module)	DPAN (optional HiQnet network input module)	DPCN (optional HiQnet network input module; digital audio)
HiQNet Compliant	No	Yes	Yes
Network Communication	No	100MB Ethernet	100MB Ethernet
Network Connections	N/A	RJ-45, CAT5	RJ-45, CAT5
Audio signal format	Analog	Analog	Digital with analog backup
CobraNet™ digital audio over ethernet	No	No	Yes
Level Controls	Attenuator, 16dB range	Network Controllable	Network Controllable
Remote Load Monitoring	No	Yes	Yes
User Assignable Filters	No	16	16
User Accessible Delays	No	Yes	Yes
Noise Generator	No	Pink, White	Pink, White
Sine Wave Generator	No	Continuous, Burst	Continuous, Burst
User Assignable Filter Types	None	9	9
Error Reporting	No	Yes, via software	Yes, via software
Digital Speaker Setting Presets	2, fixed	10, user assignable	10, user assignable
Polarity Reverse	No	Yes, via software	Yes, via software
Listen Bus line level remote monitor	No	No	Yes
Firmware upgrades via network	No	Yes	Yes
Mute	No	Remote via network	Remote via Network

Specifications

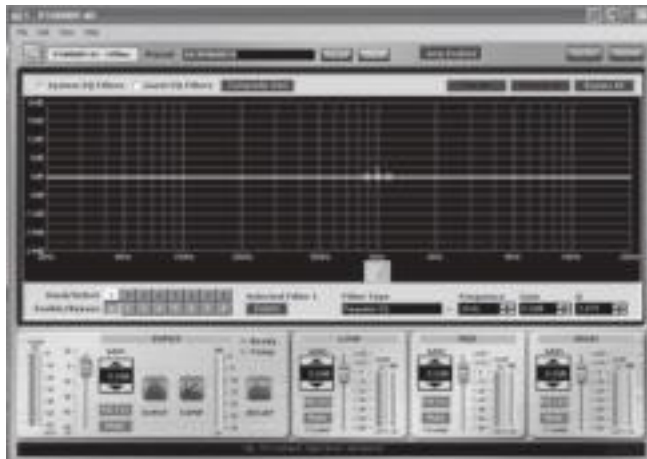
Analog Audio Input Connectors	XLR, female	XLR, female	XLR, female
Input Type	Electronically Balanced, RF Filtered		
Signal Loop-through	XLR, male, passive pass-through		
Input Impedance	20K Ohms Bal	20K Ohms Bal	20K Ohms Bal
Polarity	(+ voltage on XLR pin 2 yields (+) LF pressure		
Input Sensitivity at 1m	0 dBu: 130 dB spl 0 dBV: 128 dB spl (Input attenuator set at 0 dB)	0 dBu: 130 dB spl 0 dBV: 128 dB spl (Internal sensitivity set to +4dBu)	0 dBu: 130 dB spl 0 dBV: 128 dB spl (Internal sensitivity set to +4 dBu)
Max Input Level	+23 dBu		
Frequency Response	20 Hz – 20K Hz ± 0.5 dB		
DSP Processing	dbx Type IV analog-to-digital conversion circuitry	24 Bit conversion, 32 bit floating point processing	24 Bit conversion, 32 bit floating point processing
Dynamic Range (20-20 KHz)	> 107 dB (A Weighted)	> 110 dB (A Weighted)	> 110 dB (A Weighted)
THD+N (20-20 KHz), rated power	< 0.5%		
Crosstalk	> 60 dB @ 1kHz		
User Programmable Signal Delay	N/A	> 2 seconds	> 2 seconds
Front Panel Controls	Gain, Sub Filter Enable	Enable ALT Preset	Enable ALT Preset
Front Panel Indicators	Signal/clip, ready, thermal, fault, sub filter on/off	Signal/clip, ready, thermal, fault, alt. preset select, Network: activity, link	Signal/clip, ready, thermal, fault, alt. preset select, Network: activity, link, CobraNet conductor

JBL VT DP-SCP (DrivePack Software Control Panel)

With optional HiQNet-compatible input modules installed, JBL DrivePack systems can be remotely controlled and monitored using *HiQnet System Architect™* software. A Windows-based application, it provides an intuitive, unified platform for system configuration and operation of JBL DrivePack-equipped systems and any other HiQnet-compliant audio devices in the signal chain. *HiQnet System Architect* enables the unified layout of on-screen product control surfaces, and simple preset configuration of an entire system across multiple brands and product classes.

Advanced remote control and diagnostic capabilities, custom control panel creation, and the recall of presets on all connected HiQnet devices are included. In addition, the application enables a user to copy / paste like parameter values from, and to, multiple products across the HiQnet network.

HiQnet System Architect is available for download at harmanpro.com.



JBL DrivePack input modules are used to implement crossovers, equalization, time alignment, and protection for the attached speaker system. Speaker-dependent settings are not user-configurable from any version of the input module. The following options are available for connectivity, audio signal path and control functionality.

DPIP (Standard dbx Input Module)

JBL DrivePacks are equipped with a modular input bay and are available in several versions. The standard DPIP input module features analog audio inputs and sophisticated onboard digital signal processing technology. Precision bandpass limiting, pre-equalization filters and automatic self-test functions ensure optimized performance. Front panel controls include a 32-position detented rotary attenuator calibrated in 0.5 dB steps which provides a 16 dB range of control. This can be useful for setting up downfill shading or overall system gain structuring. Another feature is the “Enable Subwoofer Filter” button. This is a momentary-contact type switch which enables or disables the selected function. On subwoofer applications, the low-pass frequency is set to 80 Hz. For full-range systems used with subwoofers, the high-pass is raised to 80 Hz.



DPAN (Optional HiQnet Network Input Module with Analog Audio)

In addition to all of the features included on the standard input module, the DPAN adds 100 Mb Ethernet networking functionality and HiQnet compatibility. It enables remote control and monitoring via HiQnet System Architect™ software. Network Control and Monitoring is enabled by the JBL DP-SCP (DrivePack Software Control Panel) supplied within HiQnet System Architect. Network capabilities include monitoring of status, input and output levels, clipping, temperature, load faults and gain reduction. Additional control features available in software include load supervision, dynamic processing, ten internal pre-e.q.filter presets, delays, onboard noise and sine-wave generators, network device event logging, and user alert messaging.

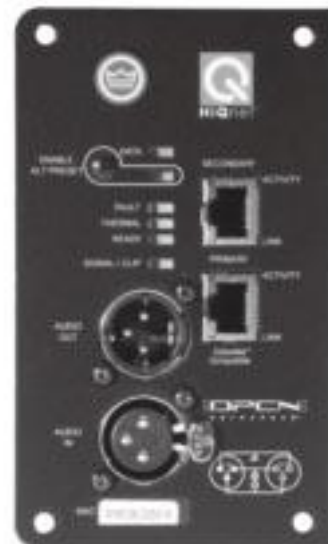
 HiQnet™



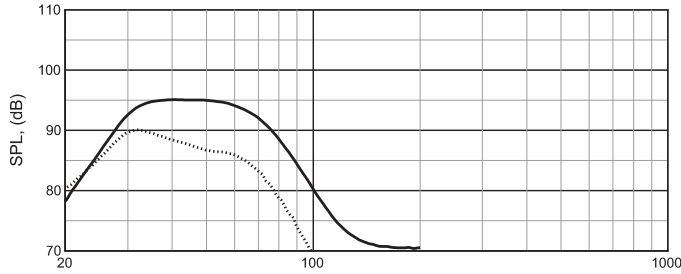
DPCN (Optional HiQnet Network Input Module with Digital Audio)

In addition to all of the features included on the DPAN, the DPCN input module adds CobraNet™ to the mix and offers the ability to direct up to 64 audio channels on one network, with digital audio and remote control and monitoring via Ethernet combined on a single cable. DPCN includes the option to use an analog input as a backup audio source providing you complete reliability and flexibility to cover any situation. With HiQnet System Architect providing the software user interface, the HiQnet communications protocol provides remote access to digital speaker preset files in the JBL DrivePack. As with the DPAN, user-addressable features include ten internal pre-e.q. filter presets, up to 2 seconds of delay per channel, onboard noise and sine-wave generators, network device event logging, and user alert messaging.

 HiQnet™



▶ VT4882DP Dual 15" Self-Powered Subwoofer, Integrated Audio System



Frequency Response of a single VT4882 (solid line) and with Recommended Signal Processing (dashed line)



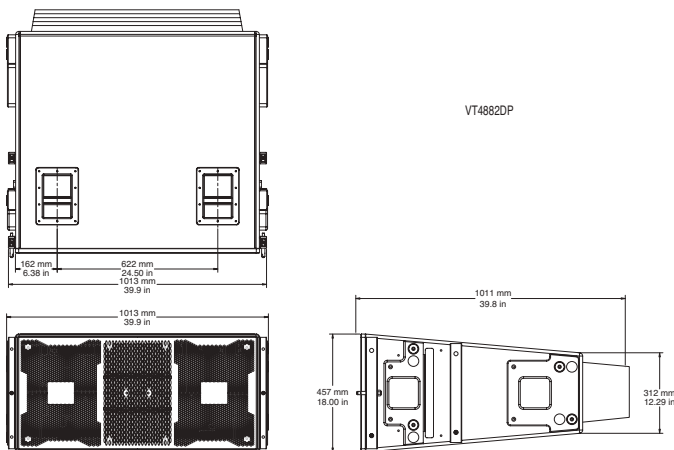
The JBL DrivePack DP3 attaches to the back panel of a standard VT4882 subwoofer, creating the model VT4882DP. Robust Crown amplification and onboard digital signal processing are combined to create a compact, powerful, integrated audio system.



VT4882DP-ACC

The VT4882DP Accessory Kit includes items necessary for the proper transport and protection of the VT4882DP. This accessory kit includes: (1) VT4882-DOLLY and (1) VT4882DP-COVER.

Important note: the VT4882DP-ACC is sold as a separate item. One VT4882DP-ACC kit should be ordered with each VT4882DP system to ensure safe and reliable transport of each system in portable use. The VT4882DP-ACC does not include hingebars for box inter-connection; these are integral to, and ship with, the VT4882DP system enclosure. The VT4882DP uses either the VT4888-AF or VT4888-SF for array suspension.



System Dimensions (HxWxD):
457 mm x 1013 mm x 1011 mm including attached suspension hardware and JBL DrivePack unit.



JBL Professional
8500 Balboa Boulevard, P.O. Box 2200
Northridge, California 91329 U.S.A.

© A Harman International Company
© Copyright 2005 JBL Professional

SSVT4882 DP
CRP 5M
09/05