

Professional Series

Application:

The VT4880A Dual 18" Ultra Long Excursion Subwoofer Line Array Element is designed to deliver high quality, high impact sound reinforcement of sub-low frequencies for a wide variety of live music and A/V support applications where maximum power-handling capability and robust first-octave acoustical response is required.

Key Features:

- ▶ Advanced, Ultra Long Excursion Components: Differential Drive® Neodymium Magnet, Dual Voice Coil, Direct Cooled™ cone transducers
- ▶ JBL PlyMax® engineered wood materials provide exceptionally rigid, lightweight enclosure
- ▶ Rugged DuraFlex™ exterior finish; weather-resistant components
- ▶ Patented, integrated S.A.F.E.™ suspension system with premium heat-treated alloys. Hingebars included.

The VT4880A is a high-performance subwoofer offering extended low-frequency reproduction capabilities in the foundation octave at lowest audible frequencies. The centrally vented enclosure features two 2269H 18" Ultra Long Excursion transducers fitted with dual voice coils to provide a high output power-to-weight ratio.

The PlyMax® enclosure features: foam-backed perforated steel grille; speaker cones treated with weather-resistant compounds. Protective end-caps safeguard the suspension hardware while allowing vertical stacking of multiple enclosures on end using integral end-mounted, scuff-resistant pads, keyed for aligning surfaces and preventing slippage.

VERTEC suspension systems are engineered for maximum support strength, and flexibility. The VT4880A's suspension hardware (same as the full range VT4889) relies on quick-release pins and end-mounted metal frames to couple adjacent units together in rigid arrays. Suspension frames are made from premium-grade chromoly alloy steel with plated surfaces; hinge bars are plated and quick-release pin restraining lanyards are stainless steel to resist corrosion.

Subwoofer Line Arrays:

The low-frequency capabilities of the multi-enclosure VT4880A array will be determined by the total number of units coupled. The directivity of a line array at any given frequency is proportional to the product of frequency and length of the array. The beamwidth will be inversely proportional to the product of the array's length and the frequency of interest, typically 20-80 Hz for subwoofer applications.

The more subwoofer elements that are used in the array the greater directivity will be at lower frequencies, enabling better pattern control. Medium to large arrays can generate extreme amounts of sub-low frequency energy.



Specifications:

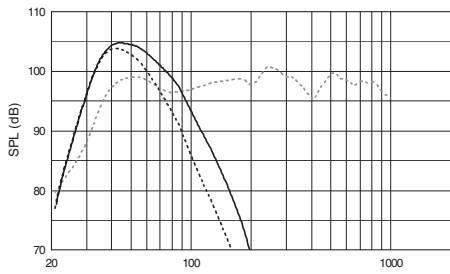
System	
Frequency Range (-10 dB):	25 Hz - 160 Hz
Frequency Response (±3 dB):	28 Hz - 120 Hz
Recommended Bandpass:	25 Hz - 80 Hz
Input Power Rating:	4000 W Continuous, 16,000 W Peak (AES / 2 hour)
Sensitivity:	95 dB, 1W @ 1m (35-120 Hz)
Maximum Peak Output ¹ :	143 dB SPL, 1m (2π, half-space, ground-based application) 137 dB SPL, 1m (4π, free-space, suspended application)
Recommended Amplification:	2 x 2400 - 4000 W into 8 ohms (transducers powered individually) 4800 - 8000 W into 4 ohms (transducers powered in parallel)
Recommended Signal Processing:	dbx® DriveRack® 4800, Crown® I-Tech, BSS Audio™ FDS-366T Omnidrive™, BSS Audio Soundweb™ London and other Digital System Controllers supported
Transducers	
Low Frequency:	Two 2269H, 457 mm (18 in) dia., 100 mm (4 in) Dual Coil, neodymium Differential Drive®, Direct Cooled™
Nominal Impedance (each transducer):	8 ohms
Input Power Rating (each transducer) ² :	2000 W Continuous, 8000 W Peak (AES / 2 hour) 1200 W Continuous, 4800 W Peak (100 hour)
Enclosure	
Cabinet Construction:	Wedge frustrum 5 degree side angle enclosure. PlyMax™ engineered wood composite structure, DuraFlex™ finish, 12 handles
Suspension System:	Patented S.A.F.E.™ hardware, integral hinge bars nest in suspension frames on enclosure sides (ends). Quick release pins with restraining lanyards. Suspend with VT4889-AF or VT4889-SF Array Frame.
Grille:	Black perforated steel, foam backed
Input Connectors:	Neutrik® Speakon® NL-4 and NL-8 (2x each), transducers circuited individually (1±, 2±)
Dimensions (H x W x D):	493 mm x 1229 mm x 860 mm (19.4 in x 48.4 in x 33.9 in)
Net Weight:	84 kg (185 lb)
Shipping Weight:	97.5 kg (215 lb)
VT4880A-ACC (Accessory Kit)	
Contents:	(1) Dolly with heavy duty castors, (1) Rugged Soft Cover Padded Bag. Order separately. Ships separately.
Dimensions (H x W x D):	127 mm x 1346.2 mm x 609.6 mm (5 in x 53 in x 24 in)
Shipping Weight:	19.0 kg (42 lb)

¹ Calculated maximum SPL based on rated peak power and measured sensitivity

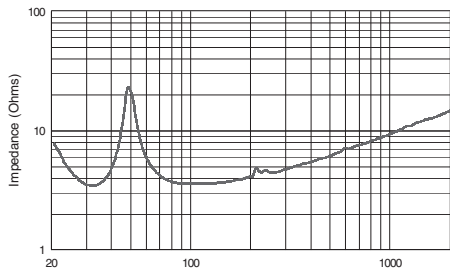
² AES Standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long term 100 hr rating are specified for cone transducers

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.

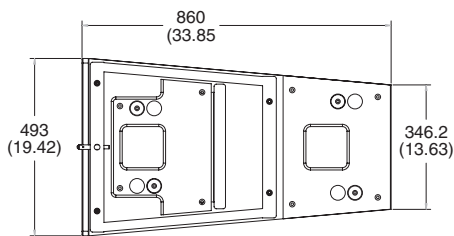
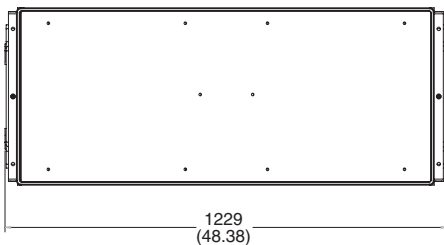
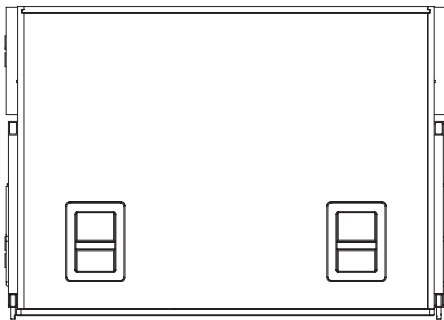
▶ VT4880A Ultra Long Excursion Dual 18" Arrayable Subwoofer



Unprocessed (light dashed) and processed frequency response (80 Hz, solid and 60 Hz, dashed)



VT4880A Impedance



(W x H x D) 1229 mm x 493 mm x 860 mm
(48.38 in x 19.42 in x 33.85 in)



2269H Ultra Long Excursion 460 mm (18") Transducer

- Dual Neodymium Magnets
- Vented Gap Cooling™
- Ultra Robust Composite Cone
- Thermoset Composite Voice Coil Former
- Edge-wound Aluminum Voice Coils
- Heavy Suspension Elements for High Excursion and Extra Long Life
- 89 mm (3.5") Peak-to-Peak Maximum Excursion
- 2000 W cont, 8000 W peak (AES) Power Handling, each transducer

VT4880A-ACC

The VT4880A-ACC Accessory kit includes items necessary for the proper transport of the VT4880A. This accessories kit includes: (1) VT4880-DOLLY, & (1) VT4880-COVER. *Important note:* the VT4880A-ACC is sold as a separate item. One VT4880A-ACC should be ordered with each VT4880A to ensure safe, reliable transport for portable use.



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