



## Product Description

This direct radiating dual 18" subwoofer cabinet is designed to partner Tannoy's VQ Series full range installation loudspeakers, the VNET 218DR is perfect for applications where increased headroom is required for high definition sound reinforcement at low and ultra low frequencies.

Extending the frequency response of the system down to 31Hz makes the VNET 218DR ideal for effects in live music performances in a multitude of environments including open-air, arena and theatres as well as large dance club and concert sound applications. This subwoofer is capable of delivering deep and powerful bass at high sound pressure levels with extremely low distortion and power compression, while all the time maintaining a uniform frequency response throughout its dynamic range. The large port areas ensure minimal turbulence even at high output levels.

This versatile, no compromise, all-purpose subwoofer is designed for the most demanding installed audio applications. The VNET 218DR provides exceptional output, high reliability and outstanding sonic performance providing low and VLF reproduction.

The VNET 218DR is equipped with 16 x unobtrusive recessed carrying handles and 16 x 10mm flying inserts. The cabinet is also fitted with 4 x rubber feet and recessed points are provided on top for secure and safe stacking of multiple subwoofer enclosures.

The modular approach of amplifiers, processing, monitoring and drivers designed into each loudspeaker enables acoustic optimization for the speaker to perform as a unified whole. The intuitive VNET™ software, integrated processing, tuning control, performance diagnostics and protection produces an easy to deploy, exceptionally high performance networkable loudspeaker. System commissioning and ongoing network control, incorporating real time diagnostics of electronics and drive unit, are all managed by the exclusive VNET™ software package. Supplied with each unit, this intuitive Windows tool controls all critical install, commissioning and performance monitoring functions.

The VNET 218DR consists of twin 458mm (18.00"), high efficiency drive units producing 106dB/W, with a 100mm (4.00") voice coil. The twin drivers are mounted in an immensely robust and heavily braced 500-litre cabinet, available in either black or white, which is constructed from 18mm (5/8") multi-ply birch hardwood. Custom colour finishes are also available upon request.

## VNET™ Network

Each VNET 218DR sub is fully VNET™ compliant. VNET™ supports free network topology so that the loudspeakers can be arranged in a daisy chain, linked in a star configuration or in any combination of both. Implementation of the network between nodes is via high quality rugged Neutrik Ethercon connectors, which are compatible with standard RJ45 plugs, and CAT5 cable. Each speaker has a unique address for auto-location on the network.

An RS485 interface is used for the serial data, with a twisted pair to send and receive information to a high number of nodes over very long distances. Operating a shared bus system, so that a single computer can control any node on that bus, also means that status information can be gathered from any of the devices. The RS-485 differential signal is very robust, while its noise immunity and long-distance capability ensure it is one of the most popular communications methods used in industry. Only data to control setup functions and ongoing system diagnostics is carried over the network.

## Features

- 2 x 458mm (18.00") bass units with 4" sandwich voice coil
- Triple aluminium demodulating rings for Ultra low distortion
- Deep, powerful bass performance
- VNET™ implementation – real-time diagnostic control
- High efficiency (>85%)
- Recessed foot locator points for stable stacking
- Rugged birch plywood construction
- 16 x integral carrying handles for easy positioning
- Integral flying points

## Applications

- Live Music Venues
- Concert Halls
- Theatres
- Nightclubs / Dance Music Venues

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# VNET 218DR

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## TECHNICAL SPECIFICATIONS

### System

<b>System Type</b>	Subwoofer - Direct Radiator
<b>Frequency Response (-3dB) <sup>(1)</sup></b>	31Hz - 600Hz
<b>Frequency Range (-10dB) <sup>(1)</sup></b>	24Hz - 1.5kHz
<b>Rated Maximum SPL <sup>(2)</sup></b>	137dB (average) 143dB (peak)
<b>Driver Complement</b>	2 x 458mm (18") Bass driver
<b>Crossover (DSP Generated)</b>	Variable low pass filter

### Distortion

10% Full Power (28.3V)	2nd Harmonic	3rd Harmonic
40Hz	0.26%	0.92%
100Hz	0.29%	0.27%
1% Full Power (8.94V)	2nd Harmonic	3rd Harmonic
40Hz	0.13%	0.23%
100Hz	0.16%	0.19%

### Construction

<b>Enclosure</b>	500 litres, 18mm (5/8") birch plywood internally braced.
<b>Finish</b>	Textured black (custom colours on request). Powder coated steel grille
<b>Connectors</b>	1 x female XLR (input) 1 x male XLR (link) 1 x RJ45 (network in) 1x RJ45 (network link) 2 x Neutrik Powercon (1 AC Input, 1 AC Loop)

### Controls & Indicators

LED on front of cabinet behind grill. (wink indicator for locating & assigning)  
Power LED (Blue)  
Signal LED (Green)  
Limit LED (Red)  
User DSP - defeat switch  
Power Switch

### Fittings

16 x Recessed carrying handles  
16 x M10 flying inserts.  
4 x Pullback points  
4 x Rubber feet

### Dimensions (HxWxD)

700mm x 1050mm x 850mm  
27.56" x 41.34" x 33.46"

### NET Weight

110kg (232 lbs)

### Electronics

<b>Efficiency</b>	>85% typically
<b>Damping Factor</b>	120 ref 8 Ohms
<b>Distortion</b>	<0.05% @ 1kHz -3dB output (22kHz bandwidth)
<b>Input Impedance</b>	5.6 kOhms unbalanced, 11.2 kOhms balanced
<b>Output Power (Programme)</b>	2500W
<b>Input Sensitivity</b>	1.4V (+5.5dBu)
<b>Input Sensitivity</b>	Dual channel Class D (Bridged)

### DSP System

<b>Comms Facilities</b>	Firmware updatable and selected parameters editable
<b>Communications</b>	Serial - RS485 Proprietary message format
<b>Dynamic Range</b>	112dB(A) typical
<b>DSP</b>	3rd generation SHARC
<b>Sampling Frequency</b>	96kHz 24 bit A/D-D/A word length
<b>Format</b>	1 IN - 1 OUT

### PSU Specifications

<b>Input Connector</b>	Locking Neutrik Powercon
<b>Voltage Selection</b>	Automatic (115 / 230V, 45 - 65Hz)
<b>Type</b>	High current, high freq. switch-mode
<b>Efficiency</b>	>90% typical
<b>Input voltage</b>	100v / 115v / 230v nominal +/-10%
<b>Mains fuse</b>	External
<b>Fuse type</b>	T10AT
<b>Other features</b>	Automatic soft-start

### Notes:

- (1) Average over stated bandwidth. Measured at 3 metres on axis, then referred to 1 metre
- (2) Unweighted pink noise input, measured at 3 metres in an anechoic chamber, then referred to 1 metre

A full range of measurements, performance data, and Ease™ Data can be downloaded from [www.tannoy.com](http://www.tannoy.com)

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notification

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 5340	VNET 218DR	BLACK	1
8001 5341	VNET 218DR	WHITE	1

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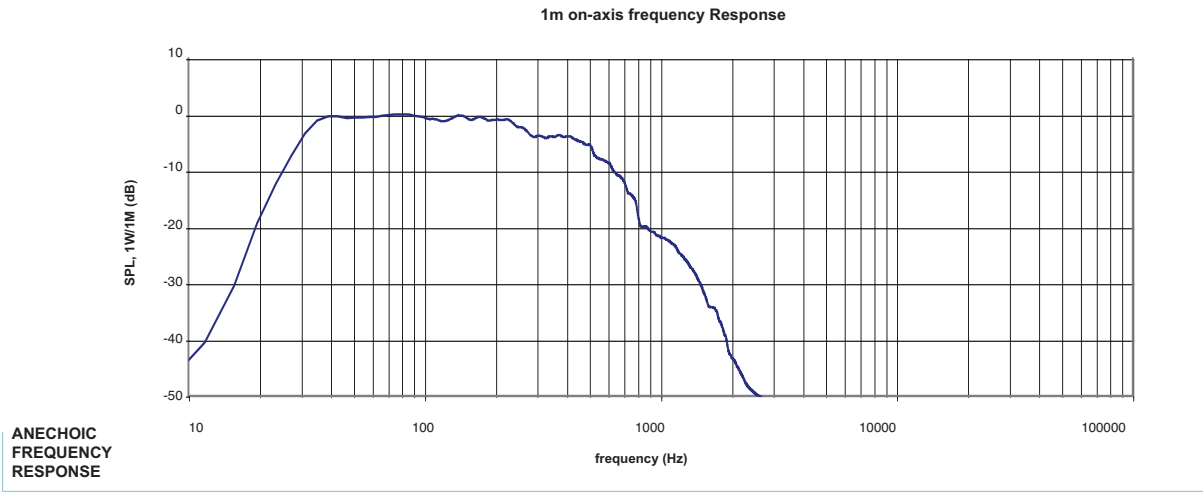
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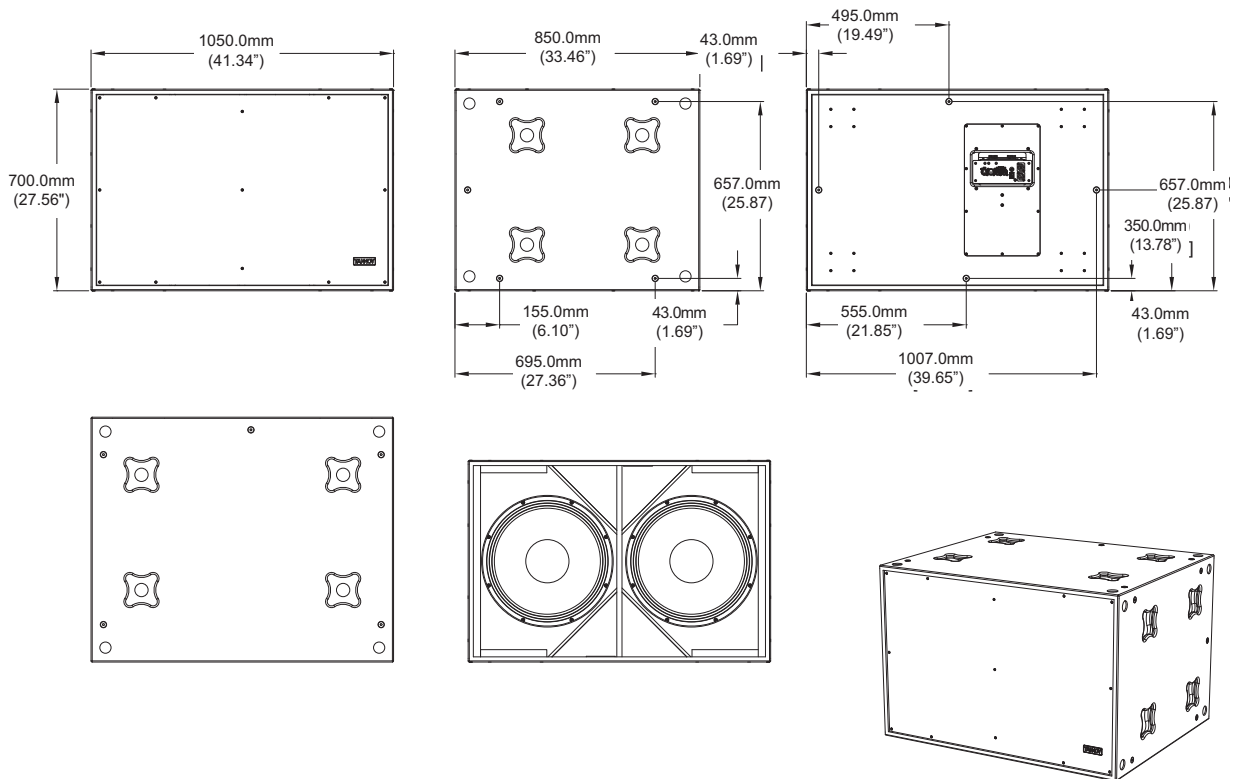
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## PERFORMANCE MEASUREMENTS



## DIMENSIONAL SKETCHES



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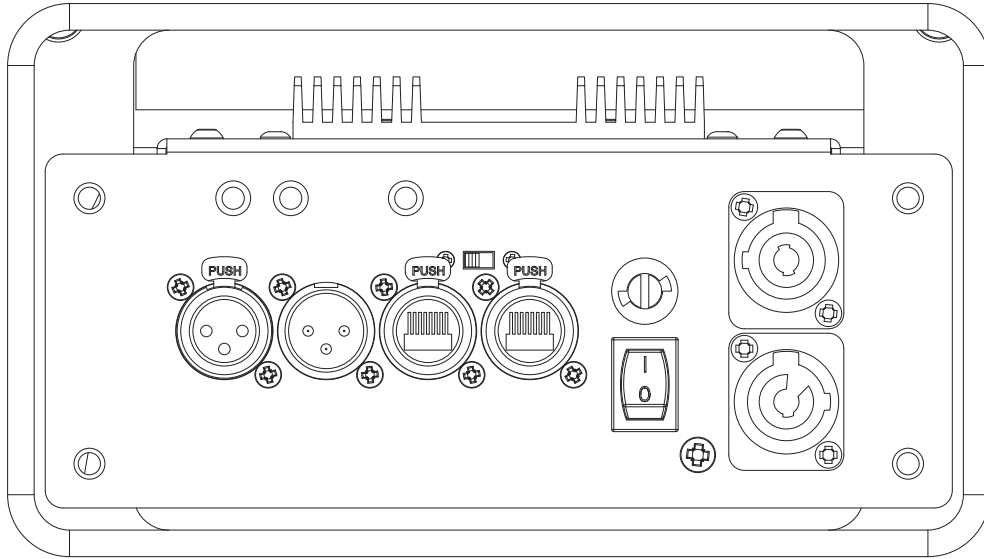
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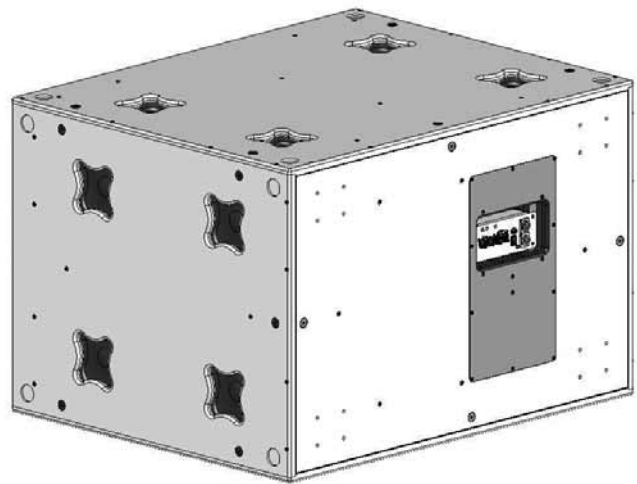
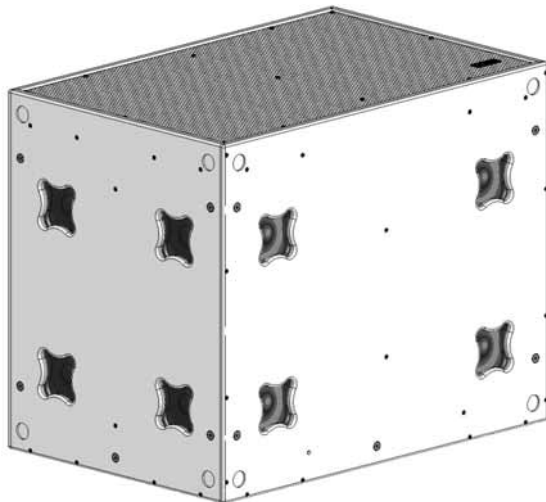
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## INPUT PANEL



## DETAIL DRAWINGS



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