



TANNOY.

'VQ LIVE is quite literally streets ahead of the competition.'

VQ LIVE...Unleashed

Having achieved unprecedented success and critical acclaim in the installation market with the VQ Series of installation loudspeakers, TANNOY set out to develop and market a touring version of the product.

Offering significant and tangible benefits over many existing solutions: sonic superiority, less boxes required, lower costs and full VNET implementation (allowing system setup and ongoing venue network control, incorporating real time diagnostics), VQ LIVE has the potential to be a true line array killer.

Technology

The Drive

The VQ products utilize a unique driver technology to radiate a coherent single point source for superior dispersion control when coupled to our single horn. This advanced design aligns the acoustical centres of the transducers providing a single coherent wavefront emanating from the throat. The driver uses two concentric annular ring diaphragms. The larger of the two has a 3.5" voice coil and reproduces frequencies from 400Hz to 7kHz. Another major advantage here is that there is no crossover anywhere near the vocal region ensuring the most natural and phase coherent reproduction at this critical area. The 2" HF diaphragm takes over at 7kHz to 22kHz by way of a passive or an active crossover. The external casting features extensive heat-sinking ensuring good heat transfer for high power handling and very low power compression.

The Horn

The use of a Dual Concentric compression driver results in a wavefront at the throat of the horn being perfectly coherent across its frequency range. The MF/HF transducer loads into a large & proprietary designed common horn. There is a huge advantage here in comparison to acoustic sources hitherto used with horns which consist of an HF compression driver and a separate midrange compression driver, each with its own horn. Invariably there is interference between the midrange and high frequency at the crossover. This results in uneven off axis performance, even if the HF horn is mounted in front of the MF horn. This artefact is compounded even further if the sources are displaced on the front baffle - No Exceptions. We found that superior sonic performance of the horn was achievable by using MDF instead of fabricating in fibreglass, due to the inert nature of the structure











Product Description

VQ NET 60 LIVE is a full range, three-way point source loudspeaker system designed for live touring sound applications which require very high output capability with class leading pattern control. Integrated with cutting edge DSP, network control and dual channel Class D amplification, VQ NET 60 LIVE is perfectly suited for demanding live music applications. Unlike line array solutions, the VQ NET 60 LIVE can produce enough power and clarity to be used individually (one each side) or in clusters where required, meaning far fewer boxes are required. With low frequency extension to 90Hz, the VQ NET 60 LIVE can be combined with the VNET 218DR LIVE twin 18" direct radiating subwoofer and VNET 215HL LIVE horn loaded subwoofer cabs for extended bandwidth down to 24Hz.

Our unique approach in keeping a new combination of Dual Concentric compression driver and a single PSW™ Waveguide (patent pending) gives us many critical performance advantages. Performance of the VQ NET 60 LIVE in terms of both accuracy & sound quality is second to none. The VQ NET 60 LIVE incorporates a unique driver technology to radiate a coherent single point source for superior dispersion control when coupled to the PSW™ (Point Source Waveguide). This advanced design aligns the acoustical centres of the transducers providing a single coherent wavefront emanating from the throat. The PSW™ waveguide achieves an unrivalled balance of extremely well controlled coverage, smooth frequency response, and natural sound character.

The low frequency section, two (12") low frequency transducers, offers high power handling and low power compression for exceptionally high continuous SPL capability. A newly designed LF loading design provides the highest possible sensitivity for low/mid frequency output.

The VQ LIVE features an integral high-power Class D amplifier with network control and A Powercon out for added functionality and convenience. Waterproof amp hoods are available, providing weather protection when used in outdoor environments.

The intuitive VNET™ software, integrated processing, tuning control, performance diagnostics and protection produces an easy to deploy, exceptionally high performance networkable loudspeaker. System setup and ongoing network control 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.

VQ NET 60 LIVE comes with 'easy-lock' wheel-board ('dolly') for easy transit on/off site as well as refined ergonomic handle grips. The cabinet design allows for side-by-side rigging and flying with the dedicated hardware (optional). Each VQ NET 60 LIVE also comes with quality protective covers.

The VQ NET 60 LIVE is part of an expanding line up of VQ LIVE products, addressing the requirement for compact, hassle free touring sound without compromising performance on

VNET™ Network

Each VQ LIVE enclosure 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.

As each VNET™ loudspeaker controls its own DSP functions any unforeseen problem would be isolated to only that particular node and audio will still be delivered. Speakers are automatically identified on the network software set up screen with factory default names. The name can be edited to reflect their actual location on the network, with physical location confirmation by selecting the 'Flash' function to activate a blue flashing front mounted LED. The loudspeakers are fully calibrated at the factory, avoiding the need to input the correct speaker management settings or any dynamics at the point of install.

Features

- Road-ready
- Unrivalled Clarity
- True Constant Directivity
- Predictable SPL Coverage
 Excellent Phase Coherence
- Less boxes required, less cost
- Extremely high sensitivity, 138dB (144dB peak) sustained output
- Ergonomic cabinet design and dolly board for easy transit and rigging $$^{-}$$ VNET $^{\mathrm{TM}}$ implementation - real-time diagnostics and
- remote commissioning
- Protective travel covers included

Applications

- Concert Halls
- Theatres
- Open-Air Live Sound
- Festival Arenas
- · Large Corporate Events

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TECHNICAL SPECIFICATIONS

System			
System Type	3-Way Full Range - Point Source		
Frequency Response (-3dB) (1)	115Hz - 23kHz		
Frequency Range (-10dB) (1)	90Hz - 27kHz		
Dispersion (-6dB)	60 degrees conical		
Driver Complement LF	2 x 300mm (12.00") Low Frequency Transducers, Semi Horn Loaded		
MF/HF	Dual Concentric™ Compression driver loaded into a single PSW™ Waveguide		
Crossover	450Hz (DSP Generated) 7kHz (passive)		
Directivity Factor (Q)	21.2 averaged 1kHz to 10kHz		
Directivity Index (DI)	13.3 averaged 1kHz to 10kHz		
Rated Maximum SPL (2) LF MF/HF	Average Peak 134dB 140dB 138dB 144dB		
Construction			
Enclosure	18mm (0.71") birch plywood. internally steel braced.		
Grille	Powder coated perforated steel grille		
Finish	Black textured paint (custom colours on request)		
Connectors	1 x female XLR (input) 1 x male XLR (link) 1 x RJ45 (network in) 1x RJ45 (network link) 1 x Neutrik Powercon 1 x AC Output for Loop Throug		
Controls & Indicators	LED on front of cabinet behind grille. (wink indicator for locating & assigning) Power LED (blue), Signal LED (green), Limit LED (red), User DSP - defeat switch, Power switch		
Fittings	6 x Recessed carrying handles 12 x M10 flying inserts		
Dimensions	925mm x 620mm x 502mm (36.42" x 24.41" x 19.76")		
NET Weight Weight (without dolly) Weight (with dolly)	86kg 98.5kg		

Electronics	
Efficiency	>85% typically.
Damping Factor	120 ref 8 Ohms
Distortion	<0.05% @ 1kHz -3dB output
	(22kHz bandwidth)
Input Impedance	5.6 kOhms unbalanced,
	11.2 kOhms balanced
Output Power (Programme)	LF - 800W
	MF/HF - 800W (limited to 400W)
Input Sensitivity	1.4V (+5.5dBu) `
Input Sensitivity	Dual channel Class D
DOD 0 1	

DSP System

Comms Facilities	Firmware updatable and selected parameters editable
Communications	Serial - RS485 Proprietary message forma
Dynamic Range	112dB(A) typical
DSP	3rd generation SHARC
Sampling Frequency	96kHz 24 bit A/D-D/A word length
Format	1 IN - 2 OUT

PSU Specifications

Input Connector	Locking Neutrik Powercon		
Voltage Selection	Automatic (115 / 230V, 45 - 65Hz)		
Туре	High current, high frequency switch mode		
Efficiency	>90% typical		
Input voltage	100V / 115V / 230V nominal +/-10%		
Mains fuse	External		
Fuse type	T10AT		
Other features	Automatic soft start		
Current Draw	115V 230V		
Startup (inrush)	3.5A 1.9A		
idle	1.1A 0.56A		
Max	3.5A 1.7A		

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 $\mathsf{Ease}^{\mathsf{TM}}$ Data can be downloaded from 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

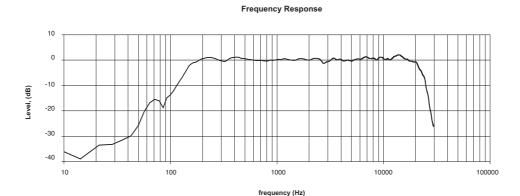
PART NUMBER MODEL NAME COLOUR PACKED QUANTITY 8001 5680 VQ NET 60 LIVE BLACK 1

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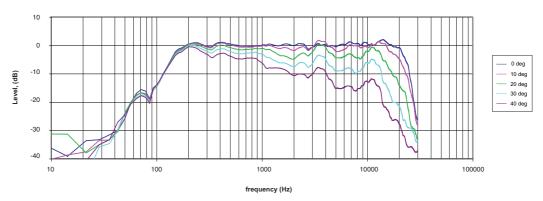
TANOY

PERFORMANCE MEASUREMENTS



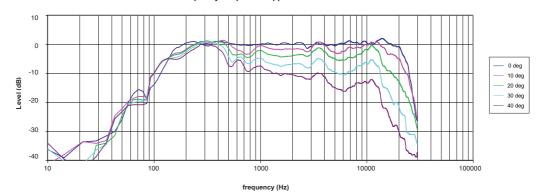
ANECHOIC FREQUENCY RESPONSE

Frequency Response - Horizontal Off-axis



HORIZONTAL OFF AXIS RESPONSE

Frequency Response - Upper Vertical Off-axis



VERTICAL UPPER OFF AXIS RESPONSE

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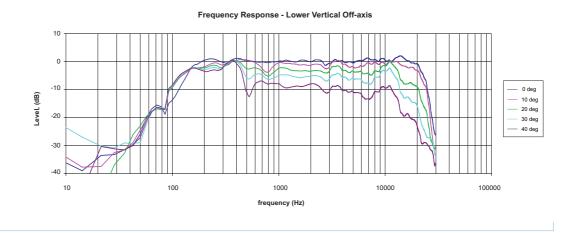
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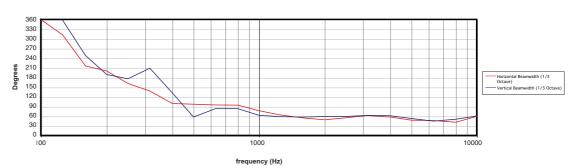


PERFORMANCE MEASUREMENTS



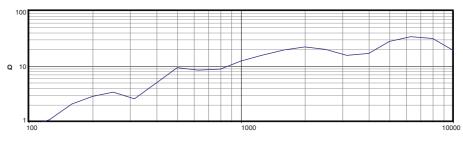
VERTICAL LOWER OFF AXIS RESPONSE

Beamwidth vs Frequency



BEAMWIDTH

Q vs Frequency



frequency (Hz)

Q VS FREQUENCY

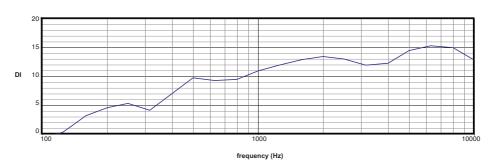
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PERFORMANCE MEASUREMENTS





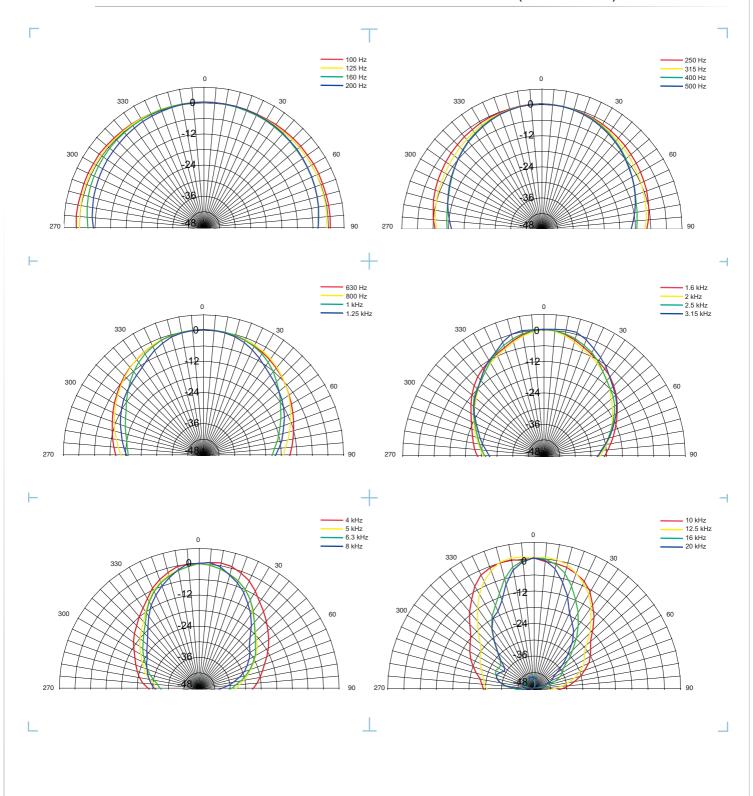
DIRECTIVITY

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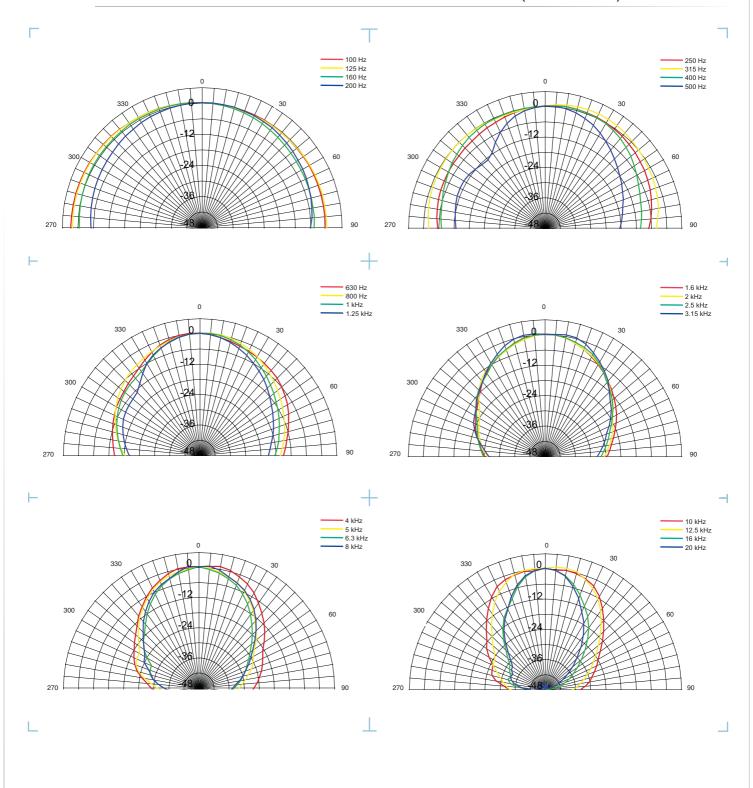
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VNET SOFTWARE

VNET™ SOFTWARE

The loudspeakers are fully calibrated at the factory, avoiding the need to in put the correct speaker management settings or dynamics at the point of install. This frees the installer to concentrate instead on room measurement and system optimisation. System commissioning and ongoing venue 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 of the critical install, commissioning and performance monitoring functions. A standard wireless LAN-to-serial bridge can be used to communicate with the network, allowing the commissioning engineer to sit in the auditorium communicating from a laptop on 802.11b

MONITORING & TELEMETRY FUNCTIONS

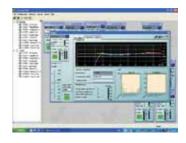
During normal operation the speakers on the network will appear as minimised panels in the form of a status monitor icon (Monicon) on the computer screen. These are laid out to reflect the physical layout of the speakers within the venue so that the user can monitor system status and component condition at a glance. The minimised panels can be expanded to reveal highly detailed information in real time:



- · Input clip indicator
- · Two output limiter bar graph meter
- · Heat sink temperature bar graph meter
- · Amplifier clip indicators (HF & LF on full range units)
- · Transducer Failure Indicators (HF & LF on full range units)
- · Amplifier protect status indicator









VNET™ Software Features

The on-screen control panel for each device in the network has a properties tab consisting of the following:

- Model Name is factory set with product model name
- Network Handle (read only) is a numerical value set at the time of manufacture to uniquely identify the
 device on the network
- Device Name is the specific user defined name, such as 'Stage.Left' or 'Delay 1'
- · Firmware Version (read only) is a numerical value of firmware version running in the device
- Configuration Name is the 12 character name the user can define to describe the current settings (such as 'Live Mode')
- Current 'Voice' profile indication (read only) is a numerical value indicating the current speaker 'voicing' profile (the factory set equalization, crossover, & dynamics functions)
- Software file loader in VNET™ allows a future modification to the software to be uploaded, such as a 'voicing' change or revised control software with new features
- · Record of any temperature or current shutdowns
- · Record of the number of power cycles
- · Rolling four day bar graphs recording amplifier temperature and any dynamics applied

Signal Processing

- Gain Section: input gain fader with edit box (-30 to +15dB in 0.2dB steps)
- · Input Mute: On, Off
- · High-Pass Filter section: frequency spin / edit box and shape drop-down box
- Low-Pass Filter Section: frequency spin / edit box and shape drop-down box
- · Equaliser Section: high resolution input EQ curve display
- Low Shelf Band: frequency spin / edit box, slope spin / edit box and boost-cut / edit box
- · High Shelf Band: frequency spin / edit box, slope spin / edit box and boost-cut / edit box
- Parametric EQ Bands (x 8): frequency spin / edit box, slope spin / edit box and boost-cut / edit box
- Delay Section: delay spin / edit box (up to 180ms)

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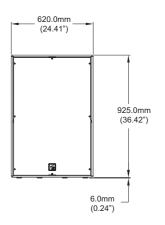
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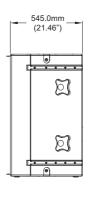
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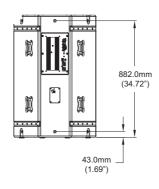
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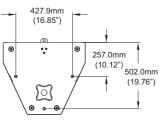


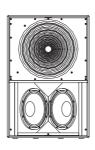
DIMENSIONAL SKETCHES



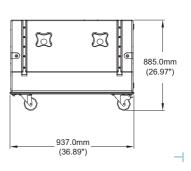




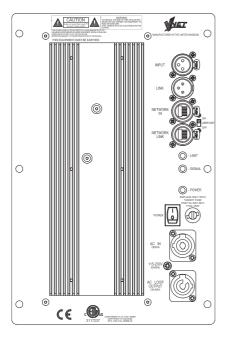








INPUT PANEL



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OPTIONAL VNET™ USB AND RS232 INTERFACE

The rack-mountable VNETTM interface allows for communication between a VNETTM network and computer.

If communicating with a non-networked *SC1* direct communication via the PC & *SC1* can be made with a standard serial lead, or USB-RS232 cable.





OPTIONAL VNET™ ACCESSORY POWER SUPPLY

The PSU is only required when communication with a *VNET*TM network is by RS232.





OPTIONAL RACK MOUNT KIT

This 1U bracket allows you to rack mount up to three VNETTM interface accessories in a standard 19" equipment rack.



Ordering Information

PART NUMBER	MODEL NAME	BAFFLE / GRILLE COLOUR	PACKED QUANTITY	PACKED WEIGHT
8001 4450	VNET™ USB / RS 232 Interface	Black	1	0.75 (1.65lb)
8001 4460	VNET™ Power Supply Interface	Black	1	0.75 (1.65lb)
8001 4470	VNET™ Interface 1U rack mount kit	Black	1	0.75 (1.65lb)

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Architectural specifications

The loudspeaker shall consist of a Dual Concentric™ Compression driver with a 3.5" Midrange voice coil and a 2" High Frequency voice coil, both mounted in a common subsystem with a common 2" exit. This Dual Concentric™ compression driver shall be coupled to a PSW™ (Point Source Waveguide) constant directivity horn operating over the frequency range of 450Hz to 23kHz. The low frequency section consists of two 12" (300mm) woofers, and shall be mounted in a semi-horn loaded enclosure to provide significant off axis attenuation below 450Hz. The low and Mid/High frequency elements shall be driven by an integrated dual channel Class D amplifier through a DSP generated crossover. The loudspeaker shall have user configurable DSP functionality. A variable high pass filter shall be provided for use with subwoofers.

The loudspeaker shall be trapezoidal in shape.

Performance of the loudspeaker shall meet or exceed the following criteria:

The Low Frequency section shall be capable of producing a peak output of 141dB SPL on axis at 1 meter. The Mid/High section shall be capable of producing a peak output of 144dB SPL on axis at 1 meter.

The dispersion of the loudspeaker shall be 60 degrees conical (-6dB). The enclosure shall be of birch plywood construction and internally braced. The enclosure shall be fitted with eight integral carrying handles, and twelve M10 inserts for flying hardware. The enclosure shall not exceed the following dimensions (H x W x D): 925mm x 620mm x 545mm (36.42" x 24.41" x 21.46")

The loudspeaker shall be the Tannoy... VQ NET 60 LIVE.

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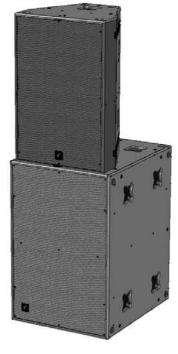
DETAIL DRAWINGS

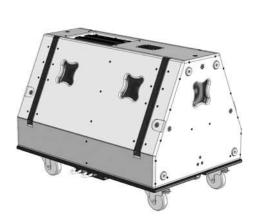












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Product Description

This direct radiating dual 18" subwoofer cabinet is designed to partner Tannoy's VQ LIVE full range touring loudspeakers, the VNET 218DR LIVE 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 LIVE 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 touring audio applications. The VNET 218DR LIVE provides exceptional output, high reliability and outstanding sonic performance providing low and VLF reproduction.

With easy rigging and portability in mind the VNET 218DR LIVE is equipped with 16 x unobtrusive recessed carrying handles and 16 x 10mm flying inserts. The cabinet is fitted with 4 x nylon feet and 4 x pullback points and recessed points are provided on top for secure location of other cabinet feet for safe stacking. Each subwoofer cabinet also has 4 fixed wheel points on the rear (amp panel) side to allow for speedy transportation in and out of venues before being tipped forward into final stacking position.

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 LIVE 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, black which is constructed from 18mm (5/8") multi-ply birch hardwood. This heavy-duty construction ensures it is able to survive the punishment that speaker systems are subjected to on the road and in touring environments, making them ideal for the rental sound market. Custom designed protective road covers are provided to offer a good degree of protection while in transit.

VNET™ Network

Each VNET 218DR LIVE 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.

- 2 x 458mm (18.00") bass units with 4" sandwich voice coil
- Triple aluminium demodulating rings for Ultra low distortion
- Double treated cone for water protection
- Deep, powerful bass performance VNET™ implementation real-time diagnostic control High efficiency (>85%)
- Integrated castor wheels on back for easy transit
- Recessed foot locator points for stable stacking
- Rugged birch plywood construction
- Durable and protective covers for safe transit
- 16 x integral carrying handles for easy positioning
- Integral flying points

Applications

- Live Music Venues
- Concert Halls
- Open-Air Live Sound
- Festival Arenas
- Large Corporate Events
- Nightclubs / Dance Music Venues
- Stadiums

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TECHNICAL SPECIFICATIONS

System					
System Type	Subwoofer - Direct Radiator				
Frequency Response (-3dB)	^{I)} 31Hz - 600Hz				
Frequency Range (-10dB) (1)	24Hz - 1.5kHz				
Rated Maximum SPL (2)	137dB (average) 143dB (peak)				
Driver Complement	2 x 458mm (18") Bass driver				
Crossover (DSP Generated)	Variable low pass filter				
Distortion					
10% Full Power (28.3V) 40Hz 100Hz	2nd Harmonic 0.26% 0.29%	3rd Harmonic 0.92% 0.27%			
1% Full Power (8.94V) 40Hz 100Hz	2nd Harmonic 0.13% 0.16%	3rd Harmonic 0.23% 0.19%			
Construction					
Enclosure	500 litres, 18mm (5/8") birch plywood internally braced.				
Finish	Textured black (custom colours on request). Powder coated steel grille				
Connectors	1 x female XLR (input) 1 x male XLR (link) 1 x RJ45 (network in) 1x RJ45 (netwirk link) 1 x Neutrik Powercon				
Controls & Indicators	LED on front of cabinet behir 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 Nylon feet 4 x Fixed Wheels				
Dimensions (HxWxD)	700mm x1050mm x 850mm 27.56" x 41.34 " x 33.46"				
NET Weight	110kg (232lbs)				

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Efficiency >85% typically

Damping Factor 120 ref 8 Ohms

Distortion <0.05% @ 1kHz -3dB output (22kHz bandwidth)

Input Impedance 5.6 kOhms unbalanced, 11.2 kOhms balanced

Output Power (Programme) 2500W

Input Sensitivity1.4V (+5.5dBu)Input SensitivityDual channel Class D (Bridged)

DSP System

Comms Facilities
Firmware updatable and selected pa rameters editable
Communications
Serial - RS485 Proprietary message format
Dynamic Range
DSP
3rd generation SHARC
Sampling Frequency
Format
Format
Firmware updatable and selected pa rameters editable
Serial - RS485 Proprietary message format
112dB(A) typical
3rd generation SHARC
1 IN - 1 OUT

PSU Specifications

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

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

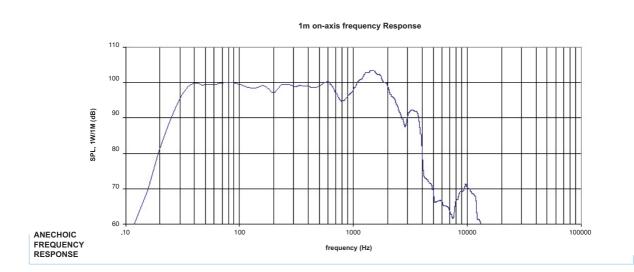
PART NUMBER MODEL NAME COLOUR PACKED QUANTITY 8001 5720 VNET 218DR LIVE BLACK 1

Tannoy United Kingdom Tannoy Middle East TC | Group International TC | Group Americas T: 00 44 (0) 1236 420199 T: 00 971 (04) 4401208 T: 00 45 8742 7000 T: 00 1 (519) 745 1158 E: enquiries@tannoy.com
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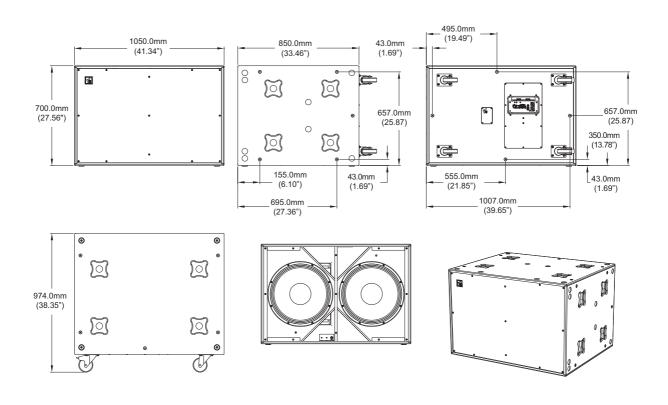


TANYOY

PERFORMANCE MEASUREMENTS



DIMENSIONAL SKETCHES



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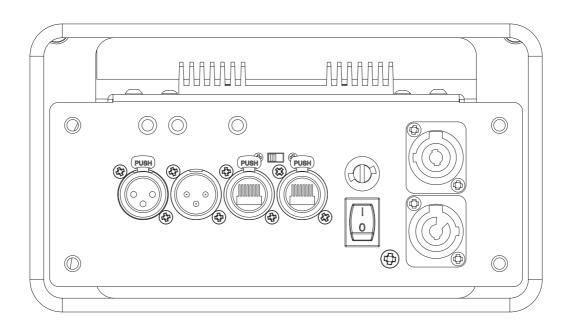
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TANNOY

INPUT PANEL



DETAIL DRAWINGS





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Comparative EASE Simulation of VQ Series and Line Array

To illustrate the predicted SPL coverage of VQ Series (in this case a single VQ 60) and offer a comparison with a typical 4 enclosure line array system, the following EASE simulation plots were generated. The room used for the simulation is 30m deep (from stage to rear wall) and 40m wide. The stage area has an upstage to down stage distance of 8m.

Both the VQ and the Line Array enclosures were placed 5m above floor level in line with the front of the stage area. The angle used between the enclosures for the line array is from horizontal to the top enclosure 8.5 degrees, between the top and the second enclosure is 2 degrees, between the second and third is 4 degrees and between the third and the fourth is 10 degrees.

The coverage maps consider the anticipated direct SPL at the following spot frequencies: 500Hz, 1kHz, 2kHz, 4kHz and 8kHz across the audience listening area and the stage area.



Less Boxes Less Weight Less Haulage **Less Hassle** Less Time + Less Cost

No Brainer

NO NEED FOR SEPARATE AMPS, FEWER BOXES THAN LINE ARRAY, LESS TO HAUL AROUND AND LESS HASSLE TO DEPLOY. IT'S A NO BRAINER.