TANNOY V SERIES

three routes to acoustic excellence

Three routes to acoustic excellence

A versatile range of High Definition Sound Reinforcement (HDSR™) loudspeakers designed to provide the optimal acoustic solution in a virtually limitless range of applications; theme bars, nightclubs, houses of worship, performing arts centres, dry hire rental, high quality public address, theatres, audiovisual, theme parks and leisure centres.

All full range models use a high power point source Dual Concentric™ drive unit mounted in a robust plywood enclosure with recessed handles for easy transportation. Optional installation hardware includes a comprehensive selection of flying brackets, accessories and pole mount socket. Matching passive and active subwoofers are available.

Offered in passive, powered and active DSP versions, all are premium quality installation cabinets with class leading acoustic performance. High sound pressure levels are delivered effortlessly and the extended frequency response ensures outstanding clarity, with crystal clear intelligibility, definition and detail.

PASSIVE – POWERED – ACTIVE DSP

PASSIVE: V SERIES™ RANGE
Premium quality installation loudspeaker with Tannoy Dual Concentric™ drive unit and passive crossover network mounted in a robust enclosure.

POWERED: POWERV™ RANGE
Adding built in Class-D amplification creates a flexible powered solution.

ACTIVE DSP: VNET™ RANGE
Integral dual channel Class-D amplification, full network control functionality and high performance user-adjustable DSP delivers ultimate system flexibility.





babycream

Installation flexibility - acoustic integrity.

V Series is a range of powerful yet compact premium quality installation cabinets designed for a wide variety of sound reinforcement applications. These systems deliver extended frequency response with high sound pressure levels, extremely low distortion, outstanding clarity, crystal clear intelligibility, definition and detail.

acoustic

The sophisticated CAD designed waveguide in the Dual Concentric™ driver combines conical dispersion and excellent acoustic impedance characteristics. An inherent feature of this point source design is that clusters and arrays have minimal lobing, and this is achieved without the use of any electronic signal processing. These acoustic characteristics enable either vertical or horizontal mounting for single or multi-cabinet arrays without compromising sound quality.

Available in black or white, the asymmetric cabinet profile is flexible and discreet in either fixed installations or on the road. Used as a low profile stage monitor, the conical coverage pattern gives the performer greater freedom of movement off axis than allowed by conventional horn loaded designs.

Efficiency and performance are clearly top of the list of advantages offered by these self-powered loudspeakers. By eliminating speaker cables and tailoring the signal processing and amplifiers to the combined driver / enclosure system response, POWERV™ offers increased output and reduced distortion for each watt expended.

The powered speaker has become the norm for audio professionals as the simplicity and scalability of these systems is the big draw. After all, what could be easier that just connecting the output of your DJ or live sound mixer directly to the speaker and turning everything on? The actual installation process is simplified, as there is no need for heavy external amplifier racks, and setup is faster because fewer components need to be connected and commissioned.

Dynamic power – ultimate performance.

For audio professionals who demand uncompromised sound quality and flexibility, POWERV™ combines Tannoy's Dual Concentric™, point source, constant directivity drive unit technology with a sophisticated amplifier package integrated within the speaker cabinet.

Delivering impressive levels of accuracy and performance all POWERV™ loudspeakers are equipped with highly efficient, flexible and reliable Class D power amplification incorporating switching power supplies. The amplifier section and power supply were developed simultaneously and therefore optimally matched to minimise noise and enhance stability. The power module combines light, efficient and cool-running amplification, comprehensive driver protection and equalisation into a single compact unit. Clean, undistorted sound is delivered, even when driven at very high power levels. No cooling fans are required so the system runs quietly and is not prone to internal dust contamination.

Many loudspeakers in the field are never utilised to their fullest potential, as it is not practical for an installer or consultant to do all the necessary component testing and research to achieve the optimum performance. The POWERV™ system capitalises on the integrated design concept as every component part and their interaction is fully optimised. All signal processing functions have been precisely tailored; crossover frequencies and slopes, EQ, phase corrections and limiting.

Dynamic power – ultimate performance.

In order to satisfy a wide scope of fixed or on the road sound reinforcement applications there are five full range models and two subwoofers.

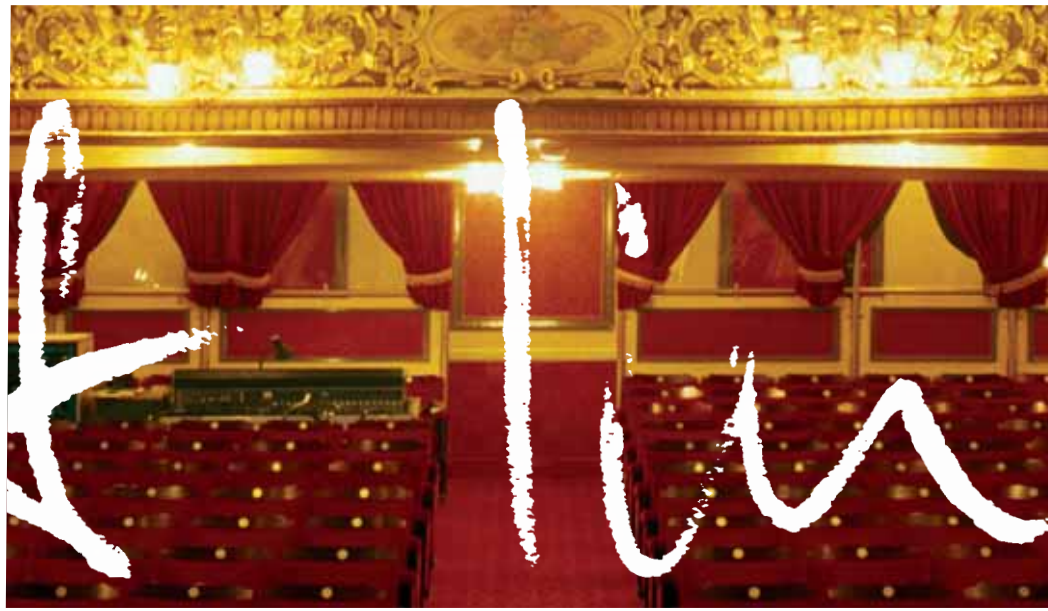
LED's on the rear panel indicate signal presence, signal activity, and power. Signal input and audio link are via XLR, while the mains connector is a Neutrik locking Powercon type.

A switch on the rear panel of the full range models allows selection between Full Range or High Pass modes, with High Pass allowing a speaker to be mounted in close proximity to a boundary or simply to increase headroom.

High pass mode also enables a simple top box and subwoofer combination to be created without the need for an external crossover. Two low pass setting options on the subwoofer amplifiers fully optimise integration with the full range units.

1. Red 'Limit' LED, displays output limiter action
2. Green 'Signal Present' LED, operates at-50dB reactive to the minimum input level
3. Blue power on LED
4. XLR male audio link
5. XLR female audio input
6. A mode select switch to select between high pass and full range
7. Level control
8. Fuse holder
9. Rocker power switch
10. Neutrik Powercon locking mains connector


Music Power

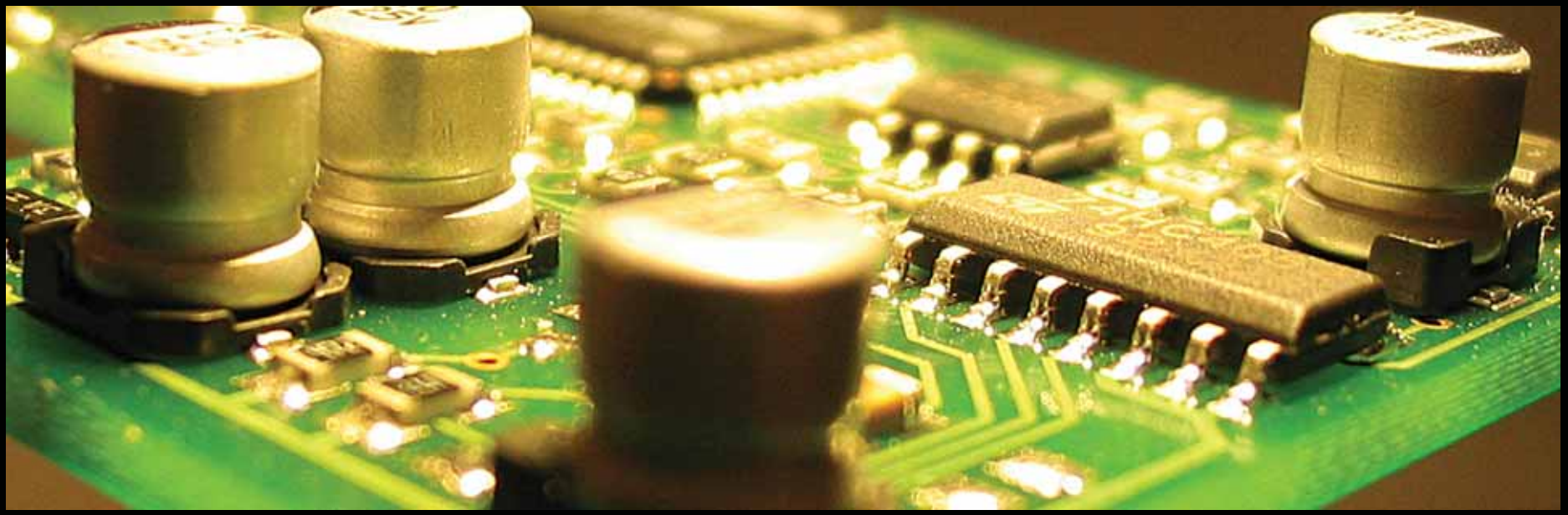


Smart linking.

The integration of the Dual Concentric™ point source, constant directivity drive unit with leading edge digital signal processing, network control and Class D amplifier technologies ensure these high definition sound reinforcement (HDSR™) loudspeakers provide a fully monitored active system; a complete turnkey solution for the most demanding sound reinforcement applications.

The Dual Concentric™ point source, constant directivity drive unit integrates with leading edge digital signal processing, network control and class D amplifier technologies to create sound reinforcement loudspeakers designed to form the complete installation solution.

By taking the modular approach, where all the main system elements are designed into each loudspeaker, the amplifiers, processing, monitoring and drivers have all been optimised to perform as a unified whole. The resulting package of intuitive user setup, integrated processing, tuning control, performance diagnostics and protection produces an exceptionally high performance networkable loudspeaker that is easy to install.



Smart linking.

The Tannoy VNET™ speaker range incorporate 800 Watt Class D power modules with switched mode power supplies. These very efficient and reliable designs operate at a low temperature, even when driven at very high power levels.

Tannoy has produced a truly state-of-the-art platform with a digital electronics section that uses a third generation 96kHz DSP chipset in conjunction with an efficient switch mode power supply.

Features

Active sound reinforcement loudspeakers with powerful DSP and network functionality.

800 Watts per channel amplification and a 96kHz DSP chipset using powerful third generation technology.

Simple system installation using a free network topology layout – daisy chain, star configuration or any combination of both.

Software driven system commissioning, ongoing venue network control and drive unit diagnostics all done in real time.

Clean and punchy, with exceptional vocal intelligibility, the high power Tannoy Dual Concentric™ delivers a smooth response over a wide listening area in both the horizontal and vertical axes.

1. A 'Limit/Network Found' LED, displays DSP limiter action for both output channels. Also duplicates the function of the front mounted network found LED.
2. A green signal present LED, operating at -50dB reactive to the minimum input level.
3. Blue power on LED.
4. XLR male audio link.
5. XLR female audio input.
6. RJ45 network input.
7. RJ45 network link
8. A user DSP ON/OFF switch. In the OFF position this will return the loudspeaker to the factory default settings..
9. Fuse holder.
10. Rocker power switch.
11. Neutrik Powercon locking mains connector.

Networking.

Interconnection between the network computer and the speakers is very straightforward using twisted pair cable and simple connectors. The RS485 interface operates on a shared bus so that a single computer can control any amplifier on the bus; enabling it to also gather status information from any device on that bus. Each VNET™ module contains a unique address so that no user input will be required to configure network nodes.

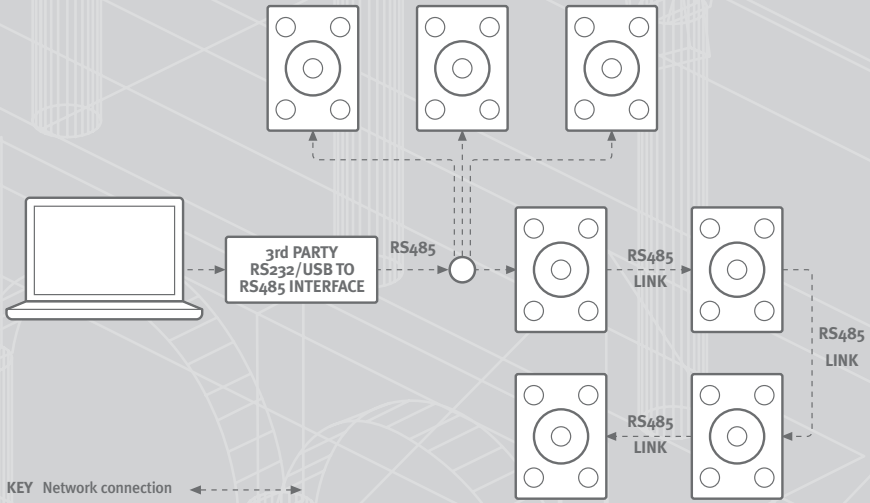
Each VNET™ loudspeaker controls its own DSP functions, so any unforeseen failure would be isolated to only that particular 'node'. As only data to control setup functions and ongoing system diagnostics is carried over the network audio will be delivered.

RS-485 cable is used for sending serial data, using a twisted pair to send and receive information to a high number of nodes over very long distances. This differential signal is very robust, while RS-485 is one of the most popular communications methods used in industrial applications where its noise immunity and long-distance capability are a perfect fit.

VNET™ supports 'Free Network Topology', allowing cabinets to be 'daisy chained', linked in a 'star' configuration or in any combination of both. Network connections between nodes are via high quality, rugged Neutrik 'ethercon' connectors, which are compatible with standard RJ45 plugs. Node connections are made using standard RJ45 connectors and CAT5 cable. Implementation of the network could not be simpler.

Speakers identified on the network set up screen have factory default names, which can be edited by the user to reflect their actual location on the network. They can be physically located on the network by selecting the 'Flash' function to activate an LED mounted on the front of the loudspeaker.

VNET™ Free Network Topology



VNET SC1 Controller.

In its basic configuration the Tannoy VNET SC1 is a powerful '2 in 6 out' digital system controller which provides multiple X-Over, EQ, Delay and Limiting options. Using DSP-based digital crossovers with 96kHz sampling rates, this versatile controller will enable simple configuration and optimisation of loudspeakers in terms of speaker management and room EQ functionality. Two versions of the VNET SC1 are available – one with a VNET™ network card and one without. The 'network enabled' version facilitates VNET™ networking capability with two network ports provided for connection to any Tannoy VNET™ system.

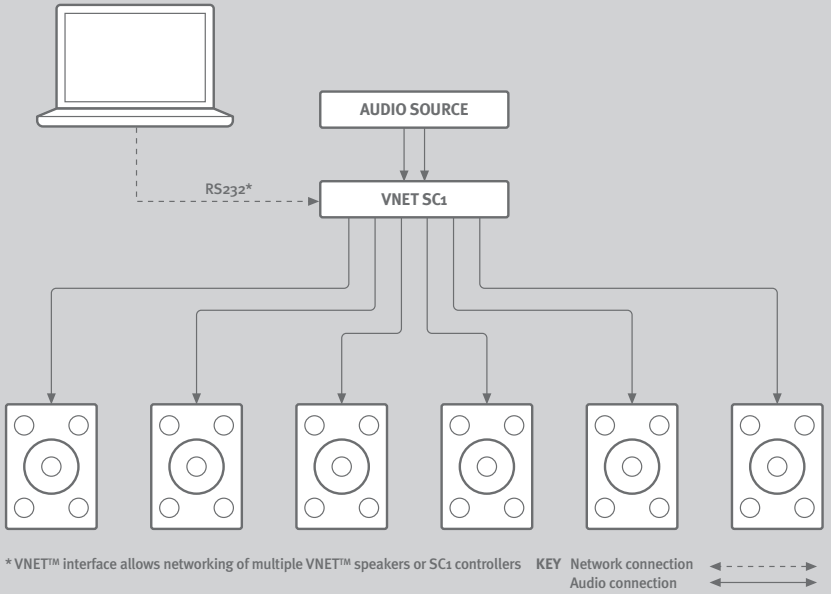
The superior audio quality of this feature packed unit offers installers and contractors a competitively priced, yet highly versatile solution for flexible system configuration and optimising the performance of loudspeaker systems. Any of the inputs (A, B, or sum) can be routed to any output with the unique routing engine of the VNET SC1. The universal switch mode power supply automatically adapts to mains voltages from 85 to 240 volts.

Equalisation is provided on each input and output section; two shelving filters and six fully variable parametric sections. Butterworth, Bessel, Linkwitz Riley and Hardman filters are available. A high performance, low distortion limiter is incorporated on each output; threshold is user adjustable with two LEDs provided for each output channel to indicate the signal level relative to the limiter threshold. Attack and release constants are automatically calculated by the VNET SC1 dependant on frequency. Input and output gain is adjustable in 0.2dB steps from -40dB to +15dB. Input delay is adjustable in variable steps from 0 to 400ms and output delay is adjustable to 80ms.

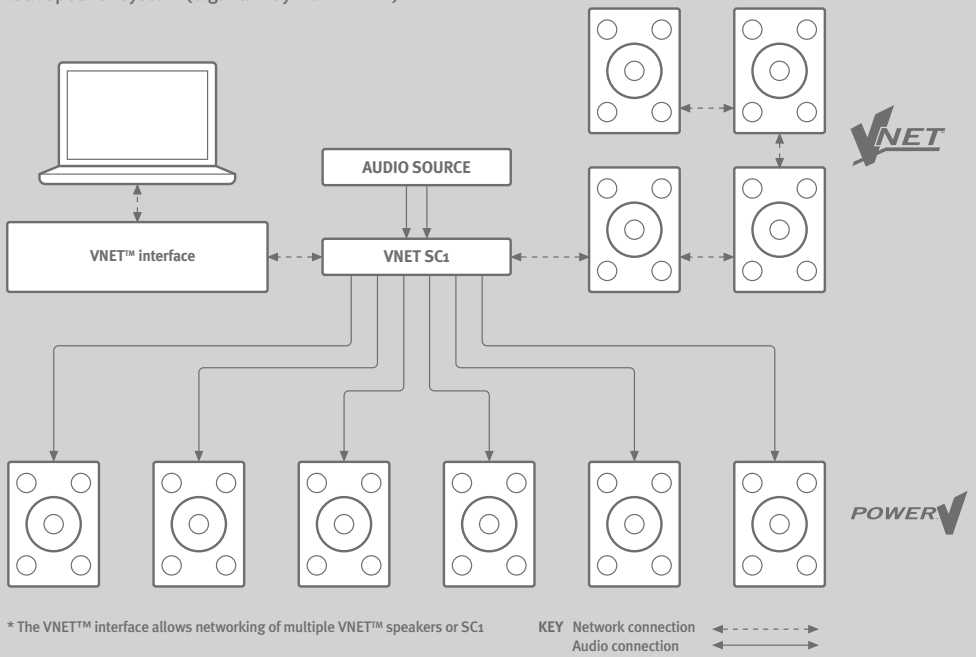
Set up of the unit is exceptionally simple thanks to the intuitive signal flow based interface, or it can be controlled from a PC with Tannoy's standard VNET™ software

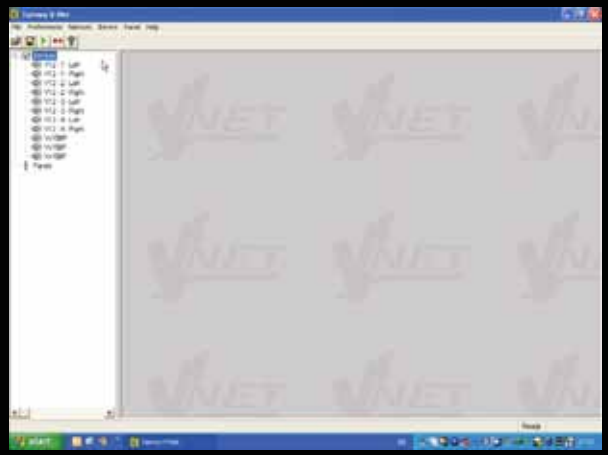
Connecting the VNET SC1

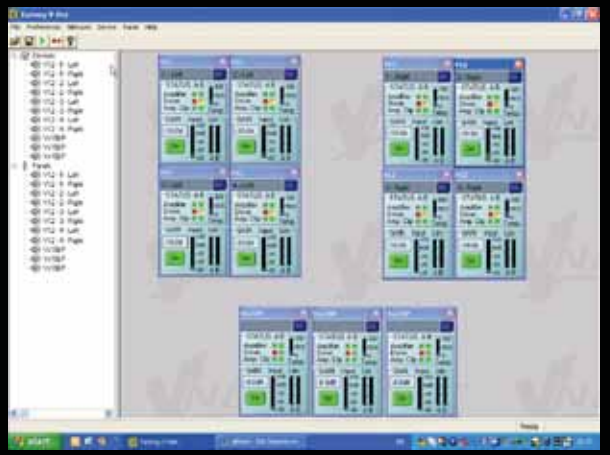
Example 2: Using a Tannoy VNET SC1 with a powered loudspeaker system (e.g. Tannoy POWERV™)

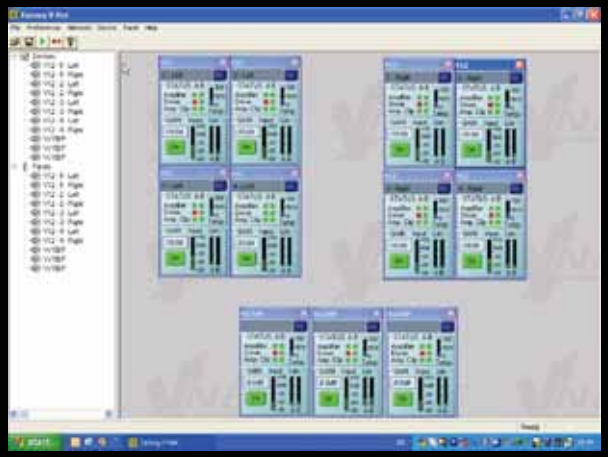


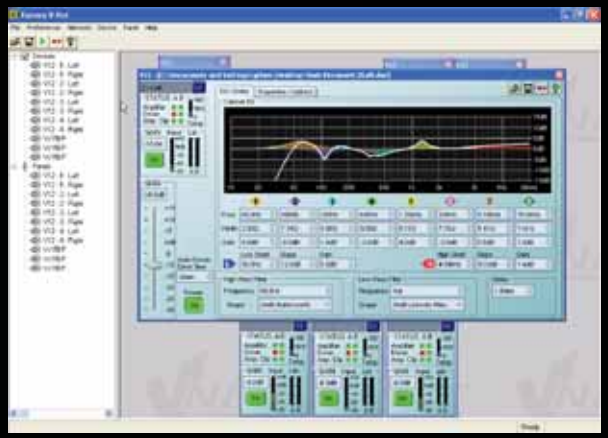
Example 3: Using a network enabled VNET SC1 to combine an existing Tannoy VNET™ system with another loudspeaker system (e.g. Tannoy POWERV™)

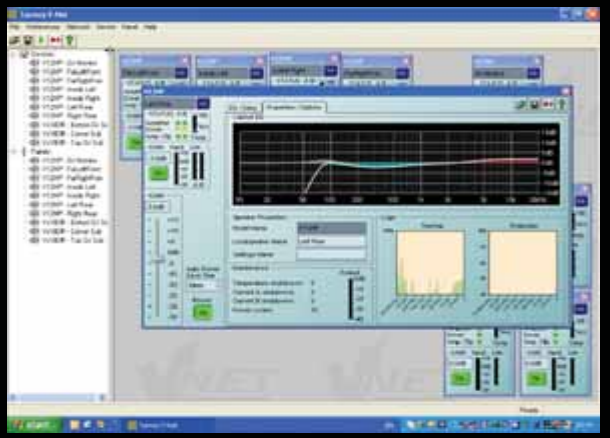












Software

The loudspeakers are fully calibrated at the factory, avoiding the need to input 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)

Optional Accessories for VNET™

Tannoy VNET™ USB and RS232 Interface
This rack mountable interface allows communication between a VNET™ network and computer.

Tannoy VNET™ Accessory Power Supply
This power supply unit is only required when communication with a VNET™ network is by RS232.

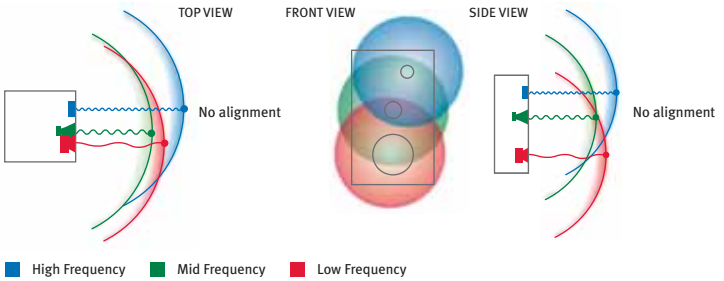
Tannoy VNET™ Accessory Rack Mount Kit
This 1U bracket allows the mounting of up to three VNET™ interface accessories in a standard 19" equipment rack.

DUAL™ CONCENTRIC

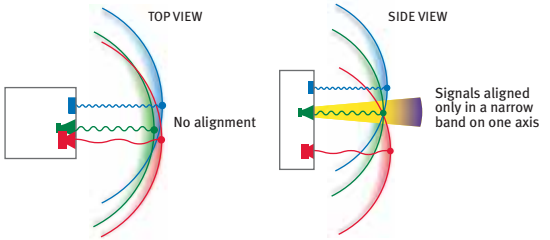
Unlike ordinary drive units, the Dual Concentric™ is effectively two drivers properly merged into one. The high-frequency unit is positioned on the back of the low frequency driver so that they are effectively on the same axis. With this system the sound energy is propagated from the same point and delivered through the centre of the low frequency cone – a true point source. The Dual delivers a spherical wave front that ensures even dispersion in the horizontal and vertical planes, providing exceptional off-axis performance.

Discrete loudspeakers have an inherent design flaw in that each drive unit is an acoustic source of its own. While the components are physically aligned on the vertical axis they cannot remain so except for at one listening point. Even those discrete systems with rotating horns suffer from a significant 'suck-out' in the crossover region and no amount of DSP processing can correct this phenomenon. The constant directivity characteristic of the Tannoy Dual Concentric™ overcomes such time alignment problems.

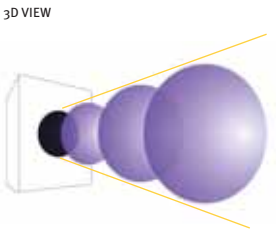
Discrete driver speaker systems cannot reproduce signals accurately because their sources are displaced in space.



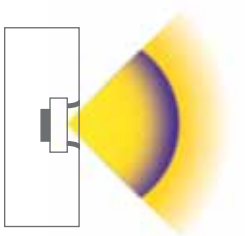
Even when delays are applied to compensate for driver alignment, signals can only be aligned alonga narrow listening plane on one axis.



In a Dual Concentric™ driver the signal sources are perfectly aligned, resulting in smooth response and a wide listening area in both horizontal and vertical axes.

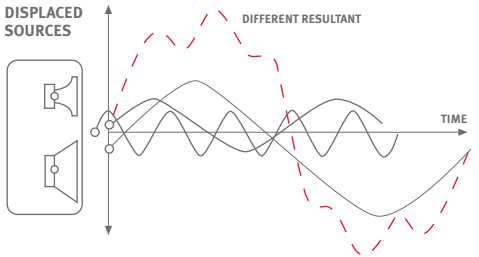


Signals remain perfectly aligned over a wide area in both vertical and horizontal axes

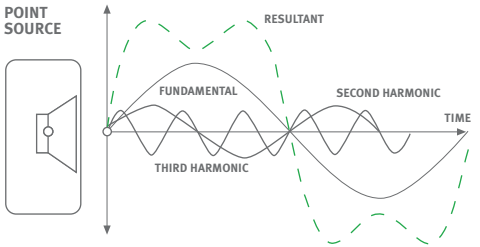


The Dual Concentric™ driver exhibits better harmonic alignment, the effect of which is to deliver a more natural sound with superb tonal balance and greater intelligibility. Propagating a spherical wave front aligned on all three axes, Tannoy's point source driver delivers even dispersion into a wide listening field in both the horizontal and vertical planes. Optimal transient performance and sound quality is achieved by the integrated design approach of the Dual. An even response throughout the listening area and a constant time delay over the frequency spectrum provides exceptional off-axis performance.

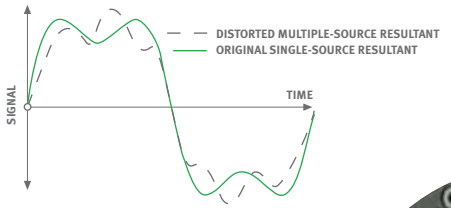
HARMONIC RELATIONSHIPS USING MULTIPLE SOURCES



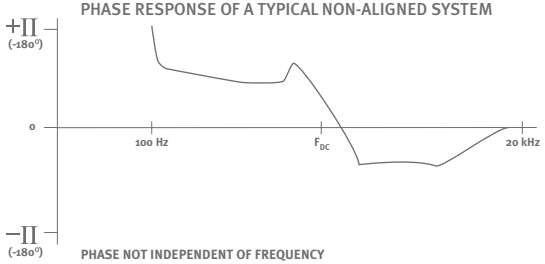
HARMONIC RELATIONSHIPS PRESERVED USING A SINGLE POINT SOURCE



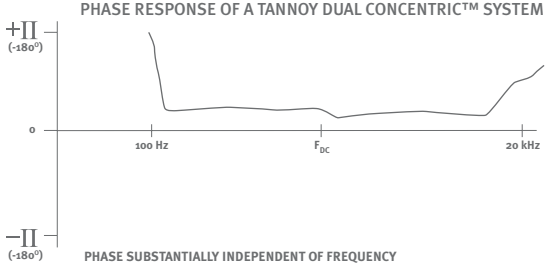
ORIGINAL VERSUS DISTORTED RESULTANT



PHASE RESPONSE OF A TYPICAL NON-ALIGNED SYSTEM



PHASE RESPONSE OF A TANNOY DUAL CONCENTRIC™ SYSTEM



The controlled even dispersion and greater intelligibility of the Dual Concentric™ constant directivity drive unit ensures that the speaker output can be more accurately targeted to where it is needed.

Technical Specifications V SERIES

SYSTEM	V6	V8	V12
System Type	Full Range - Vented	Full Range - Vented	Full Range - Vented
Frequency Response (-3dB) [1]	87Hz - 35kHz	85Hz - 22kHz	70Hz - 25kHz
Frequency Range (-10dB) [1]	75Hz - 45kHz	62Hz - 30kHz	55Hz - 38kHz
System Sensitivity (1W @1m) [2]	91dB (1W = 2.83V for 8Ω)	92dB (1W = 2.83V for 8Ω)	97dB (1W = 2.83V for 8Ω)
Dispersion (-6dB)	90 degrees conical	90 degrees conical	90 degrees conical
Driver Complement	1 x 150mm (6.00") Dual Concentric™	1 x 200mm (8.00") Dual Concentric™	1 x 300mm (12.00") Dual Concentric™
Crossover	Passive 1.6kHz with dynamic HF protection	Passive 1.7kHz with dynamic HF protection	Passive 1.4kHz with dynamic HF protection
Directivity Factor (Q)	5.6 averaged 1kHz to 10kHz	6.8 averaged 1kHz to 10kHz	8.2 averaged 1kHz to 10kHz
Directivity Index (DI)	7.0 averaged 1kHz to 10kHz	7.9 averaged 1kHz to 10kHz	8.8 averaged 1kHz to 10kHz
Rated Maximum SPL [2]	111dB (average) 117dB (peak)	113dB (average) 119dB (peak)	120dB (average) 126dB (peak)
Power Handling Average Programme Peak	 100W 200W 400W	 130W 260W 520W	 200W 400W 800W
Recommended Amplifier Power	200W @ 8Ω	260W @ 8Ω	400W @ 8Ω
Nominal Impedance	8Ω	8Ω	8Ω
Distortion 10% Full Power	(8.94V) 2nd Harmonic 3rd Harmonic	(10.2V) 2nd Harmonic 3rd Harmonic	(12.65V) 2nd Harmonic 3rd Harmonic
250Hz	2.64% 0.365%	0.12% 0.15%	0.56% 0.23%
1kHz	0.223% 0.458%	0.23% 0.84%	2.36% 1.88%
10kHz	1.873% 0.29%	1.35% 0.16%	2.68% 0.08%
Distortion 1% Full Power	(2.83V) 2nd Harmonic 3rd Harmonic	(3.2V) 2nd Harmonic 3rd Harmonic	(4.0V) 2nd Harmonic 3rd Harmonic
250Hz	0.64% 0.314%	0.16% 0.14%	0.14% 0.14%
1kHz	0.062% 0.436%	0.09% 0.53%	0.38% 0.94%
10kHz	0.78% 0.266%	0.53% 0.17%	1.03% 0.05%
CONSTRUCTION			
Enclosure	11.3 litre MDF, vented and internally braced	17 litre vented, 15mm (5/8") birch plywood and 15mm (5/8") MDF front baffle. Vented and internally braced.	37.5 litre vented, 15mm (5/8") birch plywood and 15mm (5/8") MDF front baffle. Vented and internally braced.
Finish	Textured black or white paint (custom colours on request). Foam covered, powder coated perforated steel grille.	Textured black or white paint (custom colours on request). Foam covered, powder coated perforated steel grille.	Textured black or white paint (custom colours on request). Foam covered, powder coated perforated steel grille.
Connectors	1 x Speakon NL4MP, 2 x 4mm binding posts	2 x Speakon NL4MP	2 x Speakon NL4MP in/out
Fittings	4 x M6 bracket inserts, 2 x M6 yoke bracket inserts	4 x M10 Flying inserts, 2 x M10 yoke bracket inserts 1 x recessed carrying handle Blanking plate for optional VTH pole mount	8 x M10 bracket inserts allowing for landscape or portrait mounting 8 x M10 flying insert Recessed rear mounted carrying handle, Blanking plate for optional VTH pole mount
Dimensions	337 x 252 x 240mm (13.26 x 9.92 x 9.44")	338 x 280 x 275mm (15.28 x 11.02 x 10.83")	486 x 370 x 375mm (19.13 x 14.57 x 15.5")
Weight	6.5kg (14.3lbs)	8.2kg (18.0lbs)	20kg (44.0lbs)

SYSTEM	V12 HP	V15	V300
System Type	Full Range - Vented	Full Range - Vented	Full Range - Vented
Frequency Response (-3dB) [1]	80Hz - 25kHz	70Hz - 25kHz	70Hz - 22kHz
Frequency Range (-10dB) [1]	60Hz - 30kHz	58Hz - 30kHz	56Hz - 28kHz
System Sensitivity (1W @1m) [2] Passive - Full Range Biamp (LF) Biamp (HF)	 99dB (1W = 2.83V for 8Ω) 99dB 106dB	 100dB (1W = 2.83V for 8Ω) 100dB 107dB	 98dB (1W = 2.83V for 8Ω) 98dB 104dB
Dispersion (-6dB)	75 degrees conical	75 degrees conical	90 degrees conical
Driver Complement	1 x 300mm (12.00") PowerDual™	1 x 380mm (15.00") PowerDual™	1 x 300mm (12.00") SuperDual™ constant directivity Dual Concentric™
Crossover	Passive 1.6kHz Product can be reconfigured for bi-amped operation. Bi-amp system parameters in user manual	Passive 1.4kHz Product can be reconfigured for bi-amped operation. Bi-amp system parameters in user manual	Passive 1.8kHz Product can be reconfigured for bi-amped operation. Bi-amp system parameters in user manual
Directivity Factor (Q)	7.9 averaged 1kHz to 10kHz	7.6 averaged 1kHz to 10kHz	7.4 averaged 1kHz to 10kHz
Directivity Index (DI)	8.7 averaged 1kHz to 10kHz	8.7 averaged 1kHz to 10kHz	8.4 averaged 1kHz to 10kHz
Rated Maximum SPL [2] Passive - Full Range Biamp (LF) Biamp (HF)	 124dB (average) 130dB (peak) 124dB (average) 130dB (peak) 124dB (average) 130dB (peak)	 126dB (average) 132dB (peak) 126dB (average) 132dB (peak) 125.5dB (average) 131.5dB (peak)	 122dB (average) 128dB (peak) 122dB (average) 128dB (peak) 122.5dB (average) 128.5dB (peak)
Power Handling Passive - Full Range Biamp (LF) Biamp (HF)	Average Programme Peak 350W 700W 1400W 350W 700W 1400W 60W 120W 240W	Average Programme Peak 400W 800W 1600W 400W 800W 1600W 70W 140W 280W	Average Programme Peak 250W 500W 1000W 250W 500W 1000W 70W 140W 280W
Recommended Amplifier Power Passive - Full Range Biamp (LF) Biamp (HF)	 700W @ 8Ω 700W @ 8Ω 120W @ 8Ω	 800W @ 8Ω 800W @ 8Ω 140W @ 8Ω	 500W @ 8Ω 500W @ 8Ω 140W @ 8Ω
Nominal Impedance Passive - Full Range Biamp (LF) Biamp (HF)	 8Ω 8Ω 8Ω	 8Ω 8Ω 8Ω	 8Ω 8Ω 8Ω
Distortion 10% Full Power	(16.7V) 2nd Harmonic 3rd Harmonic	(17.9V) 2nd Harmonic 3rd Harmonic	(14.14V) 2nd Harmonic 3rd Harmonic
250Hz	0.239% 0.67%	1.0% 0.56%	0.63% 0.08%
1kHz	1.58% 3.54%	1.4% 1.0%	0.92% 0.20%
10kHz	5.2% 0.19%	3.9% 1.8%	1.45% 0.17%
Distortion 1% Full Power	(5.29V) 2nd Harmonic 3rd Harmonic	(5.6V) 2nd Harmonic 3rd Harmonic	(4.47V) 2nd Harmonic 3rd Harmonic
250Hz	0.11% 0.581%	0.31% 0.45%	0.32% 0.02%
1kHz	0.79% 2.53%	0.45% 0.79%	0.28% 0.02%
10kHz	1.94% 0.161%	3.16% 0.32%	0.41% 0.08%
CONSTRUCTION			
Enclosure	37.5 litre vented, 15mm (5/8") birch plywood and 15mm (5/8") MDF front baffle. Vented and internally braced.	63.5 litre vented, 15mm (5/8") birch plywood and 15mm (5/8") MDF front baffle. Vented and internally braced.	44.5 litre vented, 15mm (5/8") birch plywood and 15mm (5/8") MDF front baffle. Vented and internally braced.
Finish	Textured black or white paint (custom colours on request). Foam covered, powder coated perforated steel grille.	Textured black or white paint (custom colours on request). Foam covered, powder coated perforated steel grille.	Textured black or white paint (custom colours on request). Foam covered, powder coated perforated steel grille.
Connectors	2 x Speakon NL4MP in/out	2 x Speakon NL4MP in/out	2 x Speakon NL4MP in/out
Fittings	8 x M10 bracket inserts allowing for landscape or portrait mounting 8 x M10 flying insert Recessed rear mounted carrying handle, Blanking plate for optional VTH pole mount	8 x M10 bracket inserts allowing for landscape or portrait mounting 8 x M10 flying insert Recessed rear mounted carrying handle, Blanking plate for optional VTH pole mount	8 x M10 bracket inserts allowing for landscape or portrait mounting 8 x M10 flying insert Recessed rear mounted carrying handle, Blanking plate for optional VTH pole mount
Dimensions	486 x 370 x 375mm (19.13 x 14.57 x 15.5")	590 x 450 x 420mm (23.23 x 17.72 x 16.54")	590 x 370 x 375mm (23.23 x 14.57 x 14.76")
Weight	22kg (48.4lbs)	32kg (70.4lbs)	34 Kg (74.8 lbs)

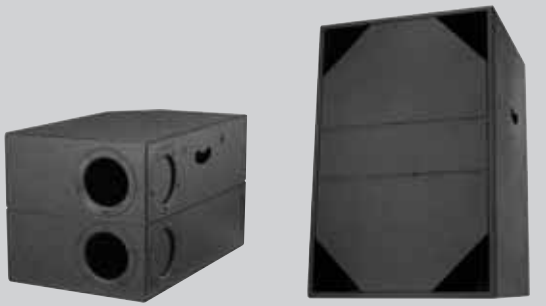
Notes 1. Average over stated bandwidth. Measured at 1 metre on axis. 2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannoy.com

SYSTEM	VS10 BP	VS15 BP	VS15 HL	VS18 DR
System Type	Subwoofer-Bandpass	Subwoofer-Bandpass	Subwoofer-Horn Loaded	Subwoofer - Direct Radiating
Frequency Response (-3dB) [1]	39Hz - 110Hz	47Hz - 160Hz	60Hz - 300Hz	29Hz - 1kHz
Frequency Response (-10dB) [1]	35Hz - 130Hz	37Hz - 200Hz	55Hz - 400Hz	24Hz - 1.5kHz
System Sensitivity (1W @1m) [2]	95dB (1W = 2.83V for 8Ω)	99dB (1W = 2.83V for 8Ω)	104dB (1W = 2.83V for 8Ω)	102dB (1W = 2.83V for 8Ω)
Power Handling				
Average [2]	200 watt	300 watt	400 watt	600 watt
Programme	400 watt	600 watt	800 watt	1200 watt
Peak (10ms)	800 watt	1200 watt	1600 watt	2400 watt
Recommended Amplifier Power	200 - 400 Watt / 8Ω	300 - 600 Watt / 8Ω	400 - 900 Watt / 8Ω	600 - 1200 Watt / 8Ω
Rated Maximum SPL [2]	118dB (average) 124dB (peak)	124dB (average) 130dB (peak)	130dB (average) 136dB (peak)	130dB (average) 136dB (peak)
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Driver Complement	1 x 250mm (10.00") high excursion bass driver	1 x 380mm (15.00") high excursion bass driver	1 x 380mm (15.00") bass driver	1 x 458mm (18.00") bass driver
Recommended Crossover	80Hz - 110Hz, 24dB/octave Recommended High-pass filter- 35Hz, 24dB/octave Internal passive crossover @ 110 Hz	80Hz - 160Hz, 24dB/octave Recommended High-pass filter- 30Hz, 24dB/octave	100Hz - 300Hz, 24dB/octave Recommended High-pass filter - 40Hz, 24dB/octave	70Hz - 300Hz, 24dB/octave Recommended High-pass filter 25Hz, 24dB/octave
Distortion	(12.65V)	(15.5V)	(17.9V)	(21.9V)
10% Full Power	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic
40Hz	2.27% 0.73%	0.65% 0.67%	1.98% 2.01%	1.22% 1.34%
100Hz	1.79% 1.27%	3.05% 0.70%	3.58% 1.46%	3.48% 1.98%
Distortion	(4.0V)	(4.9V)	(5.6V)	(7.0V)
1% Full Power (7.0V)	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic
40Hz	0.58% 0.48%	0.13% 0.30%	1.17% 2.55%	0.41% 0.41%
100Hz	0.61% 1.37%	0.76% 0.24%	3.75% 1.17%	0.88% 1.03%
CONSTRUCTION				
Enclosure	50 litres (1.56 cu ft) bandpass, 15mm (5/8") MDF. Internally braced.	100 litre Bandpass, 15mm (5/8") birch plywood. Internally braced.	170 litres 18mm (5/8") birch plywood. Internally braced.	202 litres 18mm (5/8") birch plywood. Internally braced.
Finish	Textured black or white paint (custom colours on request).	Textured black or white paint (custom colours on request).	Textured black or white paint (custom colours on request).	Textured black or white paint (custom colours on request).
Connectors	2 x Pair 4mm Binding Posts (Input & passive highpass output)	2 x Speakon NL4MPR IN/OUT	2 x Speakon NL4MPR IN/OUT	2 x Speakon NL4MPR IN/OUT
Fittings	2 x Blanking plate allows bass ports to be moved to another facia 8 x M10 flying inserts. Blanking plate for optional VTH, pole mount	8 x M10 Flying inserts 2 x recessed carrying handles Blanking plate for optional VTH, pole mount 4 x Rubber Feet	2 x Recessed carrying handles 1 x Blanking plate allows installation of a 35mm pole-mounting socket 8 x M10 flying inserts. 2 x Pullback points 4 x Rubber feet	2 x Recessed carrying handles 1 x Blanking plate allows installation of a 35mm pole-mounting socket 8 x M10 flying inserts. 2 x Pullback points 4 x Rubber feet
Dimensions	355 x 365 x 590mm (14.0 x 14.4" x 23.25")	665 x 440 x 440mm (26.18 x 17.3 x 17.3")	578 x 555 x 650mm (22 3/4 x 21 7/8 x 25 9/16")	710 x 653 x 555mm (27 15/16 x 25 9/16 x 21 7/8")
Weight	17.5 Kg (38.5 lbs)	27 Kg (59.4 lbs)	40 Kg (88 lbs)	50kg (110lbs 4oz)

V SERIES

V6 V8 V12

V12HP V15 V300



VS10 BP VS15 BP

VS15 HL VS18 DR

Notes 1. Average over stated bandwidth. Measured at 1 metre on axis. 2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannoy.com
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Technical Specifications POWERV

SYSTEM	POWERV6	POWERV8	POWERV12	POWERV12 HP	POWERV15
System Type	Full Range - Vented	Full Range - Vented	Full Range - Vented	Full Range - Vented	Full Range - Vented
Frequency Response (-3dB) [1] Full Range Mode	85Hz - 35kHz	80Hz - 30kHz	70Hz - 25kHz	71Hz - 23kHz	60Hz - 23kHz
Frequency Range (-10dB) [1] Full Range Mode	78Hz - 45kHz	67Hz - 40kHz	55Hz - 38kHz	62Hz - 28kHz	47Hz - 26kHz
Frequency Response (-3dB) [1] High Pass Mode	120Hz - 35kHz	120Hz - 30kHz	100Hz - 30kHz	100Hz - 23kHz	100Hz - 23kHz
Frequency Range (-10dB) [1] High Pass Mode	100Hz - 45kHz	100Hz - 40kHz	80Hz - 38kHz	80Hz - 28kHz	80Hz - 26kHz
Rated Maximum SPL	107dB (average) 113dB (peak)	113dB (average) 119dB (peak)	120dB (average) 126dB (peak)	124dB (average) 130dB (peak)	126dB (average) 132dB (peak)
Dispersion (-6dB)	90 degrees conical	90 degrees conical	90 degrees conical	75 degrees conical	75 degrees conical
Driver Complement	1 x 150mm (6.00”) Dual Concentric™	1 x 200mm (8.00”) Dual Concentric™	1 x 300mm (12.00”) Dual Concentric™	1 x 300mm (12.00”) PowerDual™	1 x 380mm (15.00”) PowerDual™
Crossover	Passive 1.6kHz	Passive 1.7kHz	Passive 1.4kHz	Passive 1.75kHz	Passive 1.4kHz
Directivity Factor (Q)	5.6 averaged 1kHz to 10kHz	6.8 averaged 1kHz to 10kHz	8.2 averaged 1kHz to 10kHz	8.2 averaged 1kHz to 10kHz	7.8 averaged 1kHz to 10kHz
Directivity Index (DI)	7.0 averaged 1kHz to 10kHz	7.9 averaged 1kHz to 10kHz	8.8 averaged 1kHz to 10kHz	9.1 averaged 1kHz to 10kHz	8.9 averaged 1kHz to 10kHz
Distortion 10% Full Power 250Hz 1kHz 10kHz	(8.9V) 2nd Harmonic / 3rd Harmonic 2.64% / 0.31% 0.22% / 0.45% 1.87% / 0.29%	(10.2V) 2nd Harmonic / 3rd Harmonic 0.12% / 0.15% 0.23% / 0.84% 1.35% / 0.16%	(12.65V) 2nd Harmonic / 3rd Harmonic 0.56% / 0.23% 2.36% / 1.88% 2.68% / 0.08%	(16.70V) 2nd Harmonic / 3rd Harmonic 0.04% / 0.58% 0.80% / 2.64% 2.11% / 0.11%	(17.9V) 2nd Harmonic / 3rd Harmonic 1.00% / 0.50% 1.40% / 1.00% 3.98% / 1.78%
Distortion 1% Full Power (2.8V) 250Hz 1kHz 10kHz	(2.8V) 2nd Harmonic / 3rd Harmonic 0.63% / 0.31% 0.06% / 0.23% 0.78% / 0.26%	(3.2V) 2nd Harmonic / 3rd Harmonic 0.16% / 0.14% 0.09% / 0.53% 0.53% / 0.17%	(4.0V) 2nd Harmonic / 3rd Harmonic 0.14% / 0.14% 0.38% / 0.94% 1.03% / 0.05%	(5.3V) 2nd Harmonic / 3rd Harmonic 0.24% / 0.67% 1.80% / 4.11% 5.21% / 0.21%	(5.7V) 2nd Harmonic / 3rd Harmonic 0.32% / 0.45% 0.45% / 0.79% 3.16% / 0.31%
Amplifier Type	Single channel Class D	Single channel Class D	Single channel Class D	Single channel Class D	Single channel Class D

CONSTRUCTION	POWERV6	POWERV8	POWERV12	POWERV12 HP	POWERV15
Enclosure	11.3 litres MDF, Vented and Internally Braced	17 litres vented, 15mm (5/8) birch plywood and 15mm (5/8) MDF front baffle. Vented and internally braced.	37.5 litres vented, 15mm (5/8) birch plywood and 15mm (5/8) MDF front baffle. Vented and internally braced.	37.5 litres vented, 15mm (5/8) birch plywood and 15mm (5/8) MDF front baffle. Vented and internally braced.	62 litres vented, 15mm (5/8”) birch plywood and 15mm (5/8”) MDF front baffle. Vented and internally braced.
Finish	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)
Connectors	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon
Controls & Indicators	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch
Fittings	4 x M6 bracket inserts, 2 x M6 yoke bracket inserts	4 x M10 Flying inserts, 2 x M10 yoke bracket inserts 1 x recessed carrying handle Blanking plate for optional VTH pole mount	8 x M10 Flying inserts, 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount	8 x M10 Flying inserts, 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount	8 x M10 Flying inserts, 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount
Dimensions	337 x 252 x 240mm (13.26 x 9.92 x 9.44”)	338 x 280 x 275mm (15.28 x 11.02 x 10.83”)	486 x 370 x 375mm (19.13 x 14.57 x 15.5”)	486 x 370 x 375mm (19.13 x 14.57 x 15.5”)	590 x 450 x 420mm (23.23 x 17.72 x 16.54”)
Weight	8.5kg (18.7lbs)	10.5kg (23.1lbs)	23kg (50.6lbs)	23kg (50.6lbs)	35kg (77lbs)

Notes 1. Average over stated bandwidth. Measured at 1 metre on axis. 2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannoy.com
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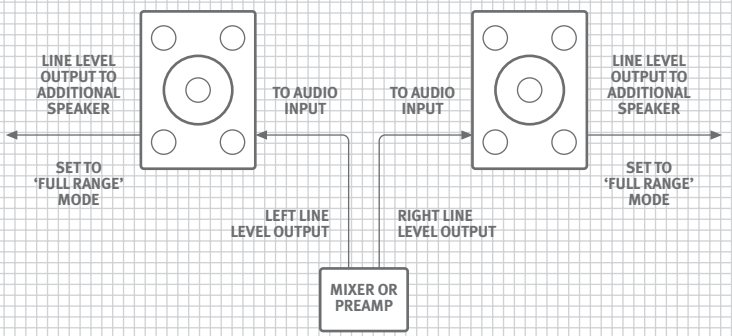
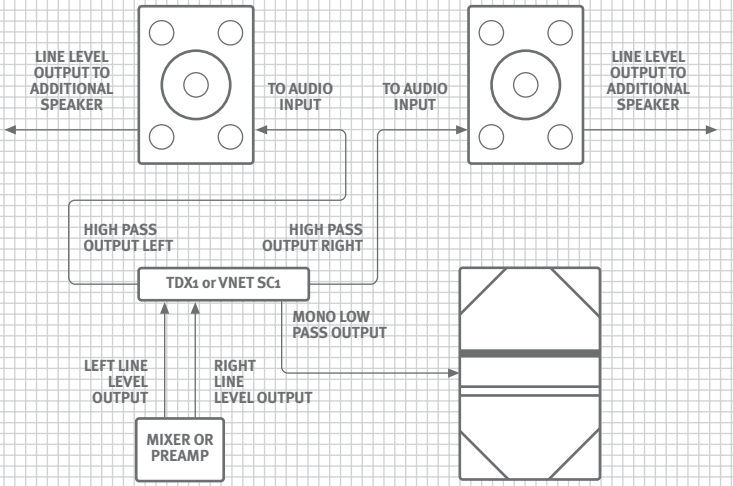
CONNECTING POWERV™: STEREO FULL RANGE



CONNECTING POWERV™: STEREO SYSTEM WITH MONO SUB



NOTE: When using an external digital crossover the full range POWERV speakers can be set to full range mode.

POWERV

POWERV6

POWERV8

POWERV12

POWERV12 HP

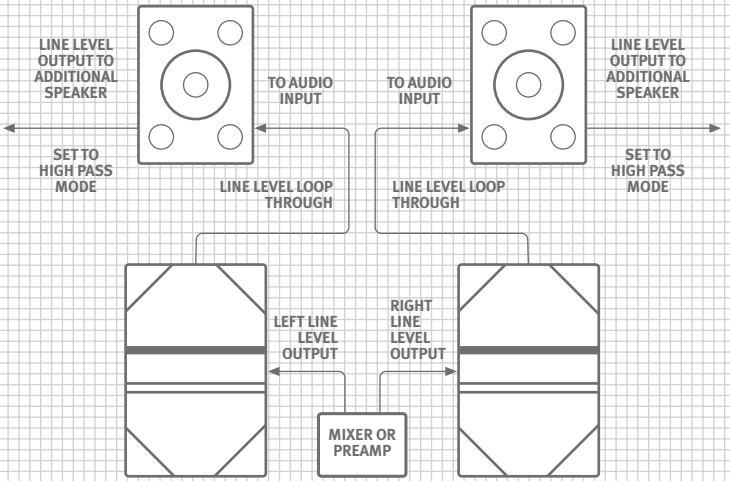
POWERV15

Technical Specifications POWERV

SYSTEM	POWERVS10 BP	POWERVS15 BP
System Type	Subwoofer-Bandpass	Subwoofer-Bandpass
Frequency Response (-3dB) [1] Lowpass Filter A on	37Hz - 80Hz	47Hz - 80Hz
Frequency Response (-3dB) [1] Lowpass Filter B on	37Hz - 110Hz	47Hz - 110Hz
Frequency Response (-10dB) [1] Lowpass Filter A on	32Hz - 80Hz	37Hz - 80Hz
Frequency Response (-10dB) [1] Lowpass Filter B on	32Hz - 110Hz	37Hz - 110Hz
Rated Maximum SPL	118dB (average) 124dB (peak)	124dB (average) 130dB (peak)
Driver Complement	1 x 250mm (10.00") High excursion bass driver	1 x 380mm (15.00") High excursion bass driver
Crossover	User selectable LPF	User selectable LPF
Distortion	(12.7V)	(15.5V)
10% Full Power	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic
40Hz	2.27% 0.73%	0.65% 0.67%
100Hz	1.79% 1.27%	3.05% 0.70%
Distortion	(4.0V)	(4.9V)
1% Full Power	2nd Harmonic 3rd Harmonic	2nd Harmonic 3rd Harmonic
40Hz	0.57% 0.47%	0.13% 0.30%
100Hz	0.61% 1.37%	0.76% 0.24%
Amplifier Type	Single channel Class D	Single channel Class D

CONSTRUCTION		
Enclosure	50 litres Bandpass, 15mm (5/8") birch plywood. Internally braced.	100 litres Bandpass, 15mm (5/8") birch plywood. Internally braced.
Finish	Textured black or white paint (custom colours on request).	Textured black or white paint (custom colours on request).
Connectors	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon
Controls & Indicators	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch	Level Control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full Range / HighPass Switch (110Hz) Power Switch
Fittings	2 x Blanking plates, this allows the bass ports to be moved to another facia 8 x M10 Flying inserts 2 x recessed carrying handles Blanking plate for optional VTH, pole mount 4 x Rubber Feet	8 x M10 Flying inserts 2 x recessed carrying handles Blanking plate for optional VTH pole mount 4 x Rubber Feet
Dimensions	335 x 365 x 590mm (14 x 14.4 x 23.2")	665 x 440 x 440mm (26.18 x 17.3 x 17.3")
Weight	18kg (39.6lbs)	30kg (66.0lbs)

CONNECTING POWERV™: STEREO SYSTEM WITH STEREO SUB



NOTE: On POWERV subwoofers set low pass filter to position 'A' (80Hz) when used with either POWER V12, V12HP or V15. Set to position 'B' (110Hz) when used with either POWER V6 or V8

POWERV

POWERVS10 BP

POWERVS15 BP

Notes 1. Average over stated bandwidth. Measured at 1 metre on axis. 2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannoy.com
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Technical Specifications VNET

SYSTEM	VNET12	VNET12 HP	VNET15	VNET300
System Type	Full Range - Vented	Full Range - Vented	Full Range - Vented	Full Range - Vented
Frequency Response (+/-2dB) [1] Full Range Mode	70Hz - 25kHz	65Hz - 23kHz	55Hz - 23kHz	60Hz - 22kHz
Frequency Range (-10dB) [1] Full Range Mode	55Hz - 38kHz	50Hz - 28kHz	40Hz - 26kHz	45Hz - 28kHz
Rated Maximum SPL	120dB (average) 126dB (peak)	124dB (average) 130dB (peak)	126dB 132dB	122dB 128dB
Dispersion (-6dB)	90 degrees conical	75 degrees conical	75 degrees conical	90 degrees conical
Driver Complement	1 x 300mm (12.00") Dual Concentric™	1 x 300mm (12.00") PowerDual™	1 x 380mm (15.00") PowerDual™	1 x 300mm (12.00") SuperDual™
Crossover (DSP Generated)	1.5kHz & Variable high pass filter for use with subwoofers	1.7kHz & Variable high pass filter for use with subwoofers	1.7kHz & Variable high pass filter for use with subwoofers	1.8kHz & Variable high pass filter for use with subwoofers
Directivity Factor (Q)	7.8 averaged 1kHz to 10kHz	7.8 averaged 1kHz to 10kHz	7.9 averaged 1kHz to 10kHz	7.9 averaged 1kHz to 10kHz
Directivity Index (DI)	8.6 averaged 1kHz to 10kHz	8.6 averaged 1kHz to 10kHz	8.9 averaged 1kHz to 10kHz	9.0 averaged 1kHz to 10kHz
Distortion 10% Full Power 250Hz 1kHz 10kHz	(12.7V) 2nd Harmonic / 3rd Harmonic 0.56% / 0.24% 2.36% / 1.88% 2.69% / 0.07%	(16.7V) 2nd Harmonic / 3rd Harmonic 0.239% / 0.677% 1.80% / 4.11% 5.2% / 0.19%	(17.9V) 2nd Harmonic / 3rd Harmonic 1.00% / 0.56% 1.4% / 1.00% 3.96% / 1.78%	(14.2V) 2nd Harmonic / 3rd Harmonic 0.63% / 0.07% 0.92% / 0.21% 1.45% / 0.17%
Distortion 1% Full Power 250Hz 1kHz 10kHz	(4.0V) 2nd Harmonic / 3rd Harmonic 0.14% / 0.14% 0.38% / 0.94% 1.02% / 0.05%	(5.3V) 2nd Harmonic / 3rd Harmonic 0.04% / 0.58% 0.80% / 2.60% 2.11% / 0.11%	(5.7V) 2nd Harmonic / 3rd Harmonic 0.31% / 0.44% 0.45% / 0.80% 3.16% / 0.31%	(4.5V) 2nd Harmonic / 3rd Harmonic 0.32% / 0.02% 0.27% / 0.02% 0.41% / 0.08%
CONSTRUCTION				
Enclosure	37.5 litres birch ply wood	37.5 litres birch ply wood	63.5 litres birch plywood	44.5 litres birch plywood
Finish	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)	Textured black or white paint (custom colours on request). Powder coated steel grille (reticulated foam behind)
Connectors	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon
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	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	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	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	8 x M10 Flying inserts 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount	8 x M10 Flying inserts 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount	8 x M10 Flying inserts 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount	8 x M10 Flying inserts 8 x M10 yoke bracket inserts 3 x recessed carrying handles (2 side & 1 rear) Blanking plate for optional VTH pole mount
Dimensions	486 x 370 x 375mm (19.13 x 14.57 x 15.5")	486 x 370 x 375mm (191.13 x 14.57 x 15.5")	590 x 450 x 420mm (23.23 x 17.72 x 16.54")	590 x 370 x 375mm (23.23 x 145.57 x 14.76")
Weight	21kg (46.2lbs)	29kg (63.8lbs)	33kg (72.6lbs)	35kg (77.0lbs)


VNET12


VNET12 HP


VNET15


VNET300

Notes 1. Average over stated bandwidth. Measured at 1 metre on axis. 2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannoy.com
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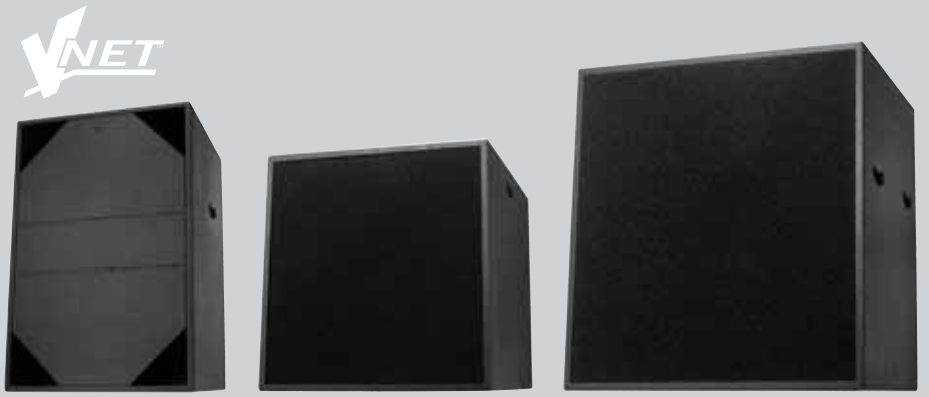
Technical Specifications VNET

SYSTEM	VNET15BP	VNET15HL	VNET18DR
System Type	Subwoofer - Bandpass	Subwoofer - Horn loaded	Subwoofer - Direct Radiator
Frequency Response (+/-2dB) [1] Full Range Mode	45Hz - 160Hz	60Hz - 300Hz	29Hz - 1kHz
Frequency Range (-10dB) [1] Full Range Mode	35Hz - 200kHz	48Hz - 400kHz	24Hz - 1.5kHz
Rated Maximum SPL [2]	127dB (average) 133dB (peak)	130dB (average) 136dB (peak)	130dB (average) 136dB (peak)
Driver Complement	1 x 380mm (15.00")	1 x 380mm (15.00")	1 x 458mm (18.00") Bass driver
Crossover (DSP Generated)	Variable low pass filter	Variable low pass filter	Variable low pass filter
Distortion 10% Full Power	(15.5V)	(17.9V)	(21.9V)
	2nd Harmonic / 3rd Harmonic	2nd Harmonic / 3rd Harmonic	2nd Harmonic / 3rd Harmonic
40Hz	0.65% / 0.67%	1.98% / 2.01%	1.22% / 1.34%
100Hz	3.05% / 0.70%	3.58% / 1.46%	3.48% / 1.98%
Distortion 1% Full Power	(4.9V)	(5.6V)	(7.0V)
	2nd Harmonic / 3rd Harmonic	2nd Harmonic / 3rd Harmonic	2nd Harmonic / 3rd Harmonic
40Hz	0.13% / 0.30%	1.17% / 2.55%	0.41% / 0.41%
100Hz	0.76% / 0.24%	3.75% / 1.17%	0.88% / 1.03%
CONSTRUCTION			
Enclosure	100 litres, 15mm (5/8") birch plywood. Internally braced.	170 litres, 18mm (5/8") birch plywood. Internally braced.	202 litres, 18mm (5/8") birch plywood. Internally braced.
Finish	Textured black or white paint (custom colours on request). Powder coated steel grille	Textured black or white paint (custom colours on request). Powder coated steel grille	Textured black or white paint (custom colours on request). Powder coated steel grille
Connectors	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon	1 x female XLR (input), 1 x male XLR (link), 1 x RJ45 (network in), 1 x RJ45 (network link), 1 x Neutrik Powercon
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	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	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	8 x M10 Flying inserts 8 x M10 yoke bracket inserts 2 x recessed carrying handles Blanking plate for optional VTH pole mount	8 x M10 Flying inserts 2 x recessed carrying handles Blanking plate for optional VTH pole mount	8 x M10 Flying inserts 8 x M10 yoke bracket inserts 4 x recessed carrying handles Blanking plate for optional VTH pole mount
Dimensions	665 x 440 x 440mm (26.18 x 17.30 x 17.30")	578 x 555 x 650mm (22.75 x 22.00 x 25.50")	710 x 653 x 555mm (28.00 x 25.50 x 22.00")
Weight	31kg (68.2lbs)	44.0kg (96.8lbs)	55kg (121.0lbs)

ELECTRONICS (Common to all VNET™ models)	
Efficiency	⇢85% typically
Damping Factor	120 ref 8Ω
Distortion	⇠0.05% @ 1kHz -3dB output (22kHz bandwidth)
Input Impedance	5.6kΩ unbalanced, 11.2kΩ balanced
Input Sensitivity	1.4V (+5.5dBu)
System Type	Dual channel Class D (subs are bridged)

DSP SYSTEM (Common to all VNET™ models)	
Comms Facilities	Firmware updatable and selected parameters editable
Communications	Serial - RS485 Proprietary message format
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 (Common to all VNET™ models)	
Input Connector	Locking Neutrik Powercon
Voltage Selection	Automatic (115 / 230V, 45 - 65Hz)
Type	High current, high freq. switch-mode
Efficiency	⇢90% typical
Input voltage	100v / 115v / 230v nominal +/-10%
Mains fuse	External
Fuse type	T10AT
Other features	Automatic soft-start



VNET15 BP VNET15 HL VNET18 DR

Notes 1. Average over stated bandwidth. Measured at 1 metre on axis. 2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannoy.com
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Hardware

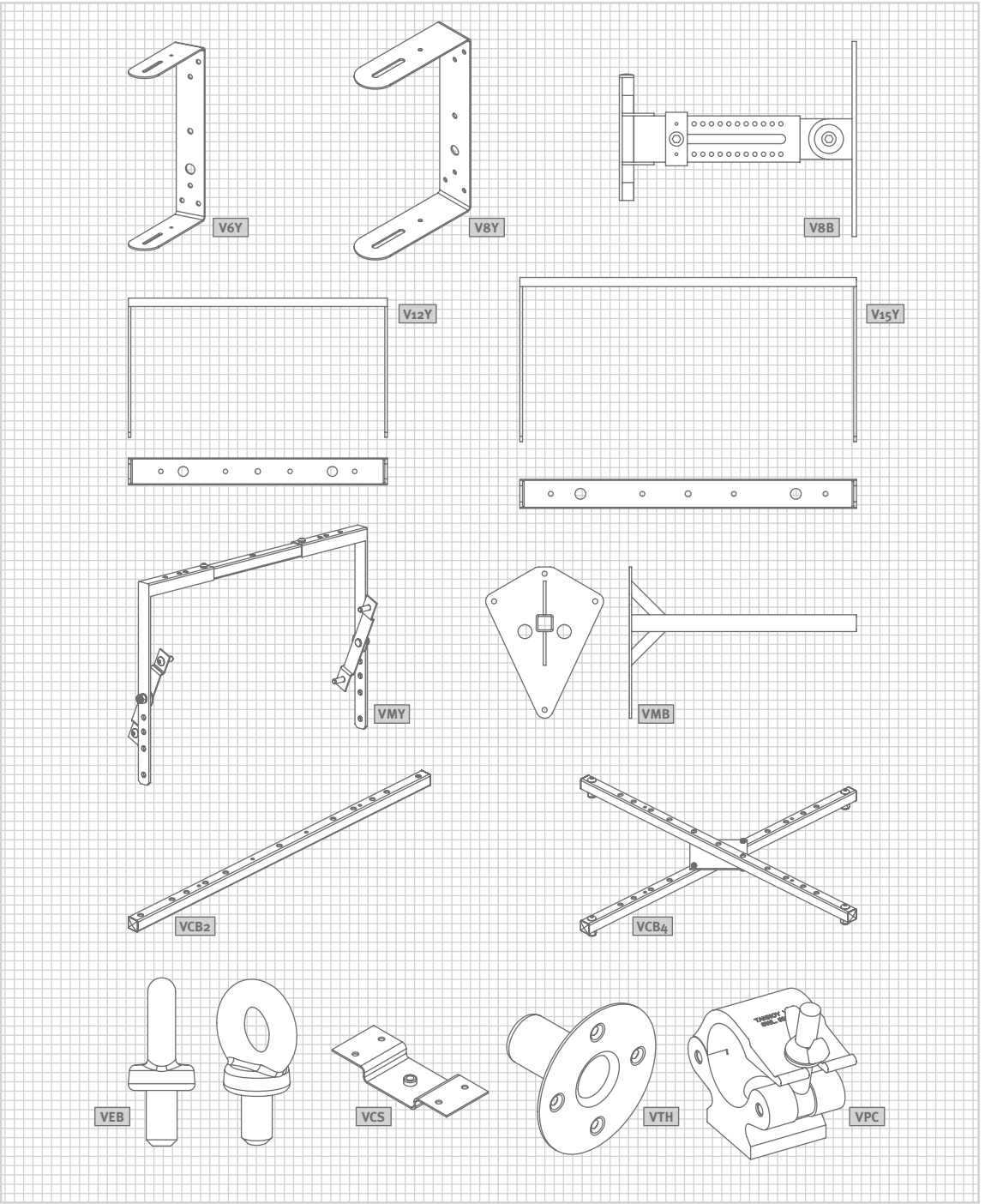
All V Series, POWERV™ and VNET™ models are equipped with recessed carrying handles to aid manoeuvrability and multiple flying points to provide a quick and secure flying system.

Tannoy's proprietary Secure-ET™ modular mounting hardware range provides each product with its selection of hardware to enable single or multiple unit hanging options, including wall mount brackets, yoke fittings, ceiling saddles, pole clamps, pole mounts and eyebolts.

	BRACKETS							ACCESSORIES					
V RANGE	V6Y	V8Y	V8B	V12Y	V15Y	VMY	VMB	VCB 2	VCB 4	VEB	VCS	VTH	VPC
V6	•		•					•	•		•		•
V8		•	•					•	•	•	•	•	•
V12				•		•	•			•	•	•	•
V12HP				•		•	•			•	•	•	•
V15					•	•	•			•	•	•	•
V300					•	•	•			•	•	•	•
VS10 BP										•		•	
VS15 BP										•		•	
VS15 HL										•		•	
VS18 DR										•		•	

	BRACKETS							ACCESSORIES					
POWERV™ RANGE	V6Y	V8Y	V8B	V12Y	V15Y	VMY	VMB	VCB 2	VCB 4	VEB	VCS	VTH	VPC
POWERV6	•							•	•		•		•
POWERV8		•						•	•	•	•	•	•
POWERV12						•	•			•	•	•	•
POWERV12 HP				•		•	•			•	•	•	•
POWERV15					•	•	•			•	•	•	•
POWERVS10 BP										•		•	
POWERVS15 BP										•		•	

	BRACKETS							ACCESSORIES					
VNET™ RANGE	V6Y	V8Y	V8B	V12Y	V15Y	VMY	VMB	VCB 2	VCB 4	VEB	VCS	VTH	VPC
VNET12				•		•	•			•	•	•	•
VNET12 HP				•		•	•			•	•	•	•
VNET15						•	•			•	•	•	•
VNET300					•	•	•			•	•	•	•
VNET15 BP										•		•	
VNET15 HL										•		•	
VNET18 DR										•		•	



TANNOY V SERIES

three routes to acoustic excellence

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