



VNET 215HL

TANNOY®



Product Description

The VNET 215HL has been engineered to complement the VQ and V-Series range of sound reinforcement loudspeakers and will also supplement any audio system requiring extremely high output levels.

This unique hybrid design blends the performance of a bent horn, providing high levels of tight and punchy bass, with the added benefit of utilizing the volume behind the horn in conjunction with slotted reflex ports to add significant depth, scale and presence not normally associated with horn loaded designs. This no compromise horn-loaded subwoofer is appropriate for the most demanding of professional applications; ideal for large scale high energy clubs, large corporate AV systems, stadiums, live concert halls, theatres, movie theatres and cinemas, large houses of worship, and open-air venues.

The extremely efficient horn design allows it to be used on its own or in multiple configurations. The horns of multiple enclosures will couple acoustically, and when mirror imaged create a single, larger horn that increases output and provides additional directivity to very low frequencies. With easy rigging and portability in mind the VNET 215HL is equipped with 14 x unobtrusive recessed carrying handles whilst 16 x 10mm flying inserts provide a secure flying system. The cabinet is also fitted with 4 x pullback points; and 4 x rubber feet are provided to facilitate ground stacking.

The modular approach of amplifiers, processing, monitoring and drivers designed into each VNET 215HL enables acoustic optimization for the subwoofer 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 subwoofer.

The VNET 215HL consists of twin 380mm (15.00"), high efficiency drive units producing 109dB/W, with a 100mm (4.00") voice coil and triple aluminium demodulating rings for ultra low distortion. The twin drivers are mounted in an immensely robust cabinet, available in either black or white, which is constructed from 18mm (5/8") multi-ply birch hardwood.

VNET™ Network

Each VNET 215HL 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. 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.

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 380mm (15.00") bass units with 4" sandwich voice coil
- Triple aluminium demodulating rings for Ultra low distortion
- Deep, powerful bass performance
- Integral high power amplification (2500W output)
- Onboard DSP
- VNET™ implementation – real-time diagnostic control
- High efficiency (>85%)
- Rugged birch plywood construction
- 14 x integral carrying handles
- Integral flying points

Applications

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

Tannoy United Kingdom
 Tannoy Deutschland
 Tannoy France
 TC | Group Americas

T: 00 44 (0) 1236 420199
 T: 00 49 (180) 1111 881
 T: 00 33 (0)1 7036 7473
 T: 00 1 (519) 745 1158

E: enquiries@tannoy.com
 E: enquiries@tannoy.com
 E: ventes@tannoy.com
 E: info@tcgroup-americas.com

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TECHNICAL SPECIFICATIONS

System Type	Subwoofer - Horn loaded
Frequency Response (-3dB) ⁽¹⁾	48Hz - 350Hz
Frequency Range (-10dB) ⁽¹⁾	40Hz - 450Hz
Rated Maximum SPL ⁽²⁾	140dB (average) 146dB (peak)
Driver Complement	2 x 380mm (15") Bass drivers
Crossover (DSP Generated)	Variable low pass filter

Distortion

10% Full Power (28.3V)	2nd Harmonic	3rd Harmonic
40Hz	1.15%	2.72%
100Hz	2.03%	3.30%
1% Full Power (8.94V)	2nd Harmonic	3rd Harmonic
40Hz	0.30%	3.12%
100Hz	0.88%	1.92%

Construction

Enclosure	500 litres, 18mm (5/8") birch plywood internally braced.
Finish	Textured black or white 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) 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

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

Dimensions (HxWxD)

700mm x1050mm x 850mm
27.56" x 41.34 " x 33.46"

NET Weight

112kg (246.7lbs)

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)	2500W
Input Sensitivity	1.4V (+5.5dBu)
Input Sensitivity	Dual channel Class D (Bridged)

DSP System

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 - 1 OUT

PSU Specifications

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

Notes:

- (1) Average over stated bandwidth. Measured at 1 metre on axis.
- (2) Unweighted pink noise input, measured at 1 metre in half space

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 5350	VNET 215HL	BLACK	1
8001 5351	VNET 215HL	WHITE	1

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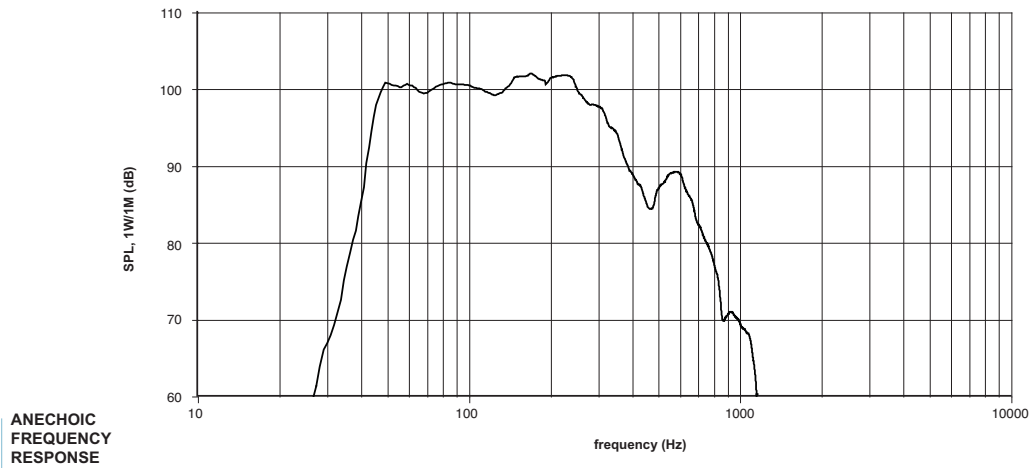
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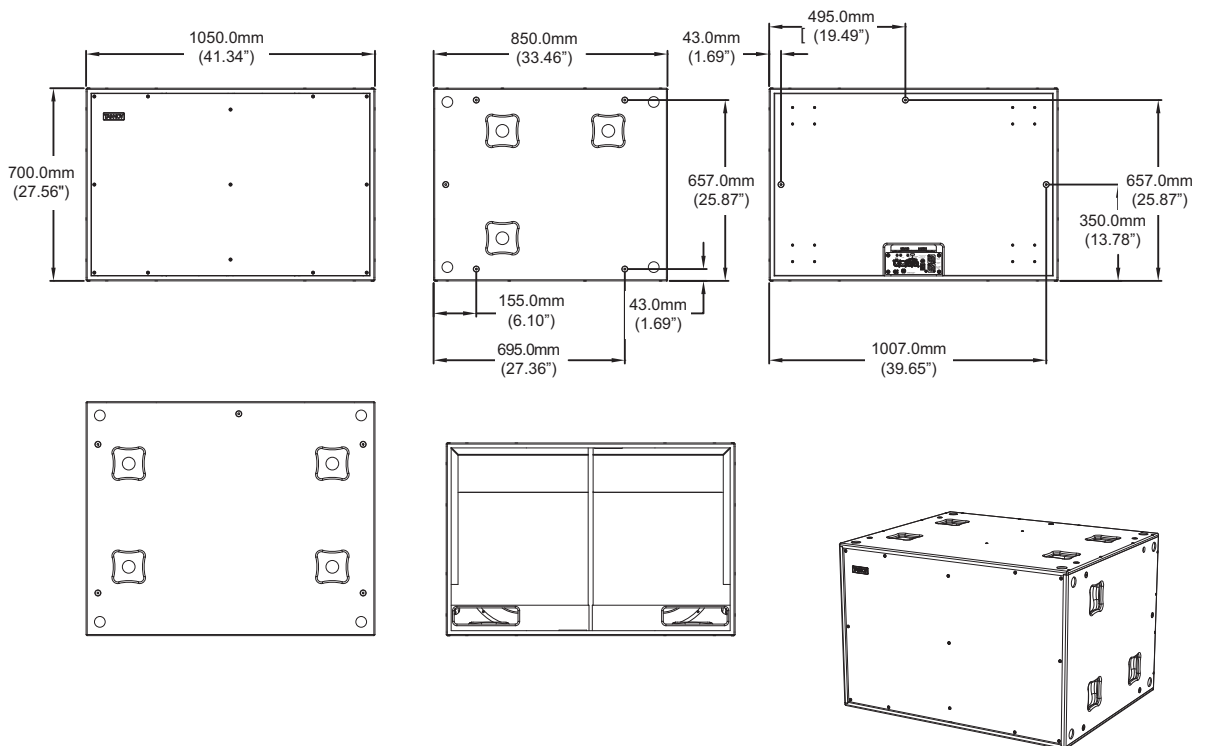
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PERFORMANCE MEASUREMENTS



DIMENSIONAL SKETCHES



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