



VNET 15DR

TANNOY®



Product Description

The VNET 15DR is a powered, network enabled version of the VS 15DR, designed to satisfy a specific requirement for applications where an installed VQNet system needs to deliver more low-frequency response than is possible with simply the 2 x 12" LF element of a full range VQ Series enclosure on its own, or by using VQ MB devices within a modular system. Examples of such applications would be nightclub dancefloors, corporate AV applications, performance art theatres or auditoria where the clarity and headroom of a VQ system may be desired without needing to be driven to such an extent that large scale subwoofers would be required.

A single direct radiating 15" low frequency transducer offers high power handling capability and extended low frequency response (down to 50Hz) from this given form factor. With high efficiency (100dB 1W@1m) and with a sustained output of 130dB, the VNET 15DR shares the same modular enclosure format as the other VQ Series modules including the VQ MH, allowing the systems designer to create tightly packed arrays or clusters including the use of multiple bass devices for improved vertical pattern control at low frequencies.

The modular approach of amplifiers, processing, monitoring and drivers designed into each VNET 15DR 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 15DR is part of an expanding line up of VQ Series products, addressing the requirement for compact dimensions without compromising performance in any way.

VNET™ Network

Each VNET 15DR 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. Only data to control setup functions and ongoing system diagnostics is carried over the network.

Features

- Designed to extend the low frequency response of VQ full range systems
- Alleviates the need for large format ground-stacked subwoofer enclosures in many instances
- Integral high power amplification (1200W output)
- Onboard DSP
- VNET™ implementation – real-time diagnostic control
- Modular enclosure for integration with other VQ Series devices to form compact full-range systems or larger scale flown arrays
- High sensitivity, therefore high SPL's can be achieved with modest power consumption

Applications

- Theatres
- Auditoria
- School Assembly Halls
- Sports Arenas / Stadia
- Large Corporate AV

Tannoy United Kingdom
Tannoy Deutschland
Tannoy Middle East
TC|Group International
TC|Group Americas

T: 00 44 (0) 1236 420199
T: 00 49 (180) 1111 881
T: 00 971 (04) 4401208
T: 00 45 8742 7000
T: 00 1 (519) 745 1158

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

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TECHNICAL SPECIFICATIONS

System

Bass loudspeaker - Direct radiator

Frequency Response (-3dB) ⁽¹⁾ 50Hz - 3500Hz

Frequency Range (-10dB) ⁽¹⁾ 38Hz - 4500Hz

Rated Maximum SPL ⁽²⁾ 130dB (average) 136dB (peak)

Driver Complement 380mm (15") Bass driver

Crossover (DSP Generated) Variable low pass filter

Distortion

10% Full Power (28.3V)	2nd Harmonic	3rd Harmonic
40Hz	1.42%	1.83%
100Hz	0.40%	0.33%

1% Full Power (8.94V)	2nd Harmonic	3rd Harmonic
40Hz	0.68%	2.20%
100Hz	0.09%	0.32%

Construction

Enclosure 89.9 litres, 18mm (5/8") birch plywood internally braced.

Grill Powder coated steel grille

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)
1 x RJ45 (network link)
1 x Neutrik Powercon

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 2 x Recessed carrying handles
12 x M10 flying inserts
4 x Rubber feet

Dimensions (HxWxD) 510mm x 694mm x 515mm
(20.08" x 27.32" x 20.28")

Weight 36kg (79.2 lbs) net
40kg (88.1 lbs) shipping

Electronics

Efficiency >85% typically
Damping Factor 120 ref 8 Ohms
Distortion <0.05% @ 1kHz -3dB output
22kHz bandwidth)
Input Impedance 5.6kOhms unbalanced,
11.2kOhms balanced
Output Power (Programme) 1200W
Input Sensitivity 1.4V (+5.5dBu)
System Type 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

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 5660	VNET 15DR	BLACK	1
8001 5661	VNET 15DR	WHITE	1

Tannoy United Kingdom
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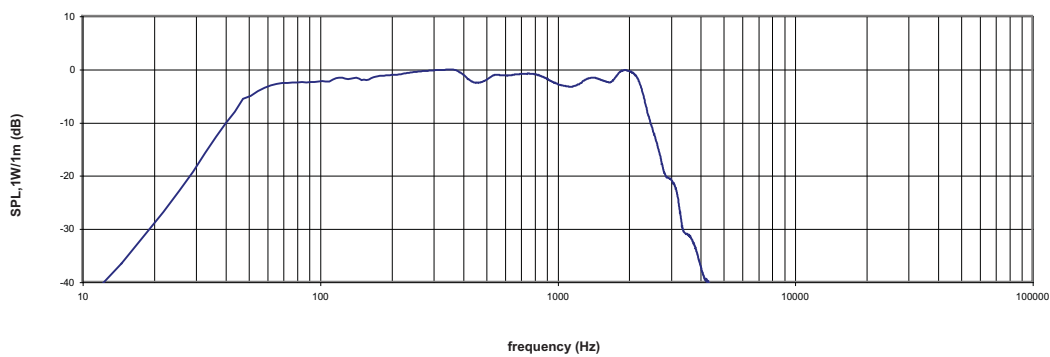
E: enquiries@tannoy.com
E: enquiries@tannoy.com
E: enquiries@tannoy.com
E: info@tcgroup-international.com
E: info@tcgroup-americas.com

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PERFORMANCE MEASUREMENTS

1m on-axis frequency response



ANECHOIC
FREQUENCY
RESPONSE

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Tannoy Deutschland
Tannoy Middle East
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E: info@tcgroup-international.com
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NOTES

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

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