

**NEW PRODUCTS 2010** 

### S4P High Powered Full Range Synergy™ Cabinet

The radical Synergy™ Summation Aperture Horn Technology provides remarkably even high / mid frequency distribution from the 60° x 60° horn assembly, delivering unmatched clarity and definition from a loudspeaker box.

Synergy Technology, designed by Tom Danley and engineered into the S4P by VTC Pro Audio is capable of delivering ultra clear reproduction through the high-mid band with extremely linear frequency response.

The Synergy horn combines a single 1-inch throat with a 1.75-inch diaphragm high frequency compression driver alongside three 5-inch ceramic magnet midrange drivers on a single, highly efficient conical horn. This combines high and mid frequency energy in a single conical horn that evenly produces frequencies from 350Hz to 20kHz.

The radical nature of the Synergy horn required a radical power amp solution to ensure optimum performance from the system.

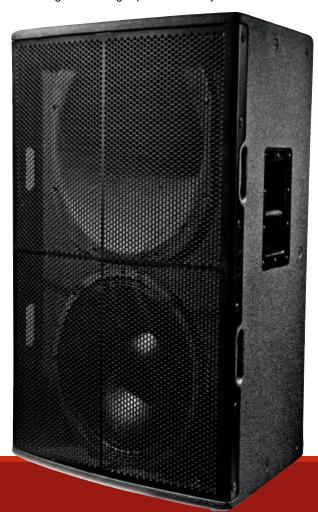
An integrated DSP provides three-way internal crossover, time alignment, component protection, limiting and an extremely accurate overall cabinet EQ. Time delayed output for accurate subwoofer

System Type Three-Way Active(Tri-amp Configuration) Program Power (Watts) 900 Max SPL (dB) 126 Frequency Response (Hz +/- 3db) 50 - 20k Crossover Frequency (Hz) 350 / 1250 **Driver Configuration** 15-inch / 3x5-inch / 1.75-inch HF Driver(s) 1.75 inch polyester Conical Synergy horn (1-inch throat) HF Horn HF Dispersion (°H x °V) 60 x 60 **HF Protection DSP** Limiter MF Driver(s) 3 x 5-inch ceramic 1- inch voicecoil MF Horn Conical Synergy horn MF Dispersion (°H x °V) MF Protection **DSP** Limiter LF Driver(s) 15-inch neodymium / 3-inch voicecoil LF Protection **DSP** Limiter Total Power (Watts) 900 HF Power Amplifier (Watts) 150 **HF Amplifier Type** Class A/B MF Power Amplifier (Watts) 150 MF Amplifier Type Class A/B LF Power Amplifier (Watts) 600 Dimensions (DWH xbackW, inches) 16.5 x 22.5 x 34 x 13 Dimensions (DWH xbackW, cm) 42 x 57 x 86 x 33 92.2 / 41.8 Weight (lbs/kg)

alignment ensures the VTC S4P delivers maximum impact in systems where complex external processing isn't the preferred set-up solution.

The S4P uses a combination of amplifier topographies to ensure reliability and superior loudspeaker performance. Two Class A/B amplifier modules deliver 150-watts each to the 1.75-inch horn driver, and to the three 5-inch ceramic drivers that make up the Unity horn assembly. An additional three-tier designed amplifier module delivers 600-watts to the 15-inch neodymium woofer.

The S4P is built using 5/8-inch birch plywood cabinet construction. Integrated bar handles and standmount adaptor allows the S4P to be quickly and easily integrated into any mobile live PA system. The cabinet's unmatched clarity and performance make an ideal choice as a repeater cabinet in large rooms and concert halls. Integrated flypoints allow the S4P to be flown in multi-cabinet arrays or installations without modification to the box. The cabinet's trapezoidal shape was designed with tight-pack box arrays in mind.



### FF1 Front Fill Cabinet

The VTC FF1 Cabinet is the ideal low-profile front fill cabinet for use with any size concert, theatre and touring systems. It is also an excellent choice as a fill, repeater or under-balcony cabinet for installations.

The FF1 maintains an extremely low physical profile by using two long excursion 6-inch woofers and a AMT (Air Motion Transformer) high frequency driver in a horizontal Mid-Tweeter-Mid configuration.

The internal crossover allows direct connection to any amplification

source without cumbersome bi-amp operation, making for highly efficient set-up or installation.

Solid plywood cabinet construction ensures unmatched long term reliability in any application. All-metal punched grills protect the high quality speaker components.

The FF1 uses only the best top quality components to provide excellent sound re-enforcement for the most expensive seats in the house.

<sup>\*</sup>Specifications subject to change without notice

# NS9 2400 Watt Dual 18-inch Passive Subwoofer

The NS9 is a large format, high output subwoofer with an extended frequency response down to 30Hz, making full use of the driver's long excursion voice coils. The dual 18-inch front loaded NS9 handles 2400 watts and is perfect for applications requiring deep, clear and precise low bass response.

Designed for ground stack applications and mobile PA the VTC

NS9 incorporates rear mounted heavy duty wheels and ample strategically placed integrated handles for ease of transportation. Although cost effective when compared to competitors in its class, the NS9 uses a solid 18mm plywood cabinet construction and heavy gauge perforated all-metal grilles to protect the high quality 18-inch long excursion drivers.



### **Features**

- High Efficiency, Compact Enclosure Design
- Dual 18-Inch Long Excursion Low Frequency Drivers
- Ultra-Low Distortion at Extreme Sound Pressure Levels
- Rock Solid 13-Ply Birch Enclosures with Rigid Bracing
- Strategically Placed Handles
- Heavy Duty Casters for Easy Transport and Pack
- Excellent Long Distance Projection

Program Power (Watts)	2400
Nominal Impedance (Ohms)	4
Sensitivity (dB @1Watt/1m)	98
Max SPL (dB)	131
Frequency Response (Hz +/- 3db)	30-130
LF Driver(s)	2 x 18-inch
Inputs Speakon 4-pin	2
Wheels	2
Bar Handles	8
Enclosure Materials	18mm 13-ply Birch Plywood
Grille	16 Gauge Perforated Metal
Covering / Finish	Black Ultrathane Paint
Dimensions (DWH inches)	24.8 x 24 x 51
Dimensions (DWH cm)	63 x 61 x 130
Weight (lbs/kg)	191.8 / 87

<sup>\*</sup>Specifications subject to change without notice



#### **Features**

- Ideal For Front Fill in Touring Systems, Also as Under-Balcony or Fill & Repeater Cabinets in Installation Applications
- Dual 6-inch Long Excursion Drivers with AMT H.F Driver in Low Profile MTM Configuration
- 500 Watts Program Power, Nominal 8-ohm Load
- Sensitivity is 95db (@1 watt / 1m)
- 90H x 30V High Frequency Dispersion
- Passive Operation Only (No Bi-amplification Required)
- Solid Plywood Cabinet Construction
- All Metal Sonically Transparent Grille
- Optional "U" Shaped Installation Hardware Bracket

### **ELS118** Tapped Horn Subwoofer

The Elevation Series ELS118 Subwoofer uses an innovative new technology developed by Tom Danley called a Tapped Horn design (patent pending). The Tapped Horn maximizes driver efficiency by allowing radiation from the rear of the driver to enter the system at a tap, located further down the horn flare towards the mouth.

Built for long term reliability in even the most demanding touring applications, the Elevation Series ELS118 Tapped Horn subwoofer uses a high quality 18-inch neodymium long excursion driver by 18 Sound. VTC cabinets and subwoofers are built in North America using a solid marine grade Baltic birch plywood cabinet construction.

#### **Features**

- Tapped Horn Subwoofer Design (patent pending)
- Long Excursion High Power 18-inch Woofer (with 5.5-inch Voice Coil)
- Low Distortion Down to 35Hz
- Maximum SPL 134dB
- Solid Plywood Cabinet Construction
- UHMW Skid / Stack Rails (Bottom & One Side)
- Double Stack Dolly Available (ELS118D2)

Configuration	Tapped Horn Passive Subwoofer	
<b>Driver Components</b>	18-inch Long Excursion Neodymium Woofer	
Frequency Response	35Hz - 200Hz (-3dB)	
	31Hz - 260Hz (-10dB)	
Program Power	4000 Watts	
Nominal Impedance	4 ohms	
Recommended Processing	20Hz High Pass @ 24dB/Octave Linkwitz-Reilly	
	90-100Hz Low Pass @ 24dB/Octave Linkwitz-Reilly	
Sensitivity (1w/1m)	105dB	
Maximum SPL	134dB	
Enclosure Material	5/8" 11-ply Baltic birch plywood	
Finish	Black Ultrathane paint	
Grille	Perforated, formed powder coated steel	
Connectors	Neutrik Speakon® NL4MPR in parallel (x2)	
Dimensions (DWH, inches)	33.75 x 28.4 x 33.75	
Dimensions (DWH, cm)	85.7 x 72.1 x 85.7	
Weight (lbs/kg)	174 / 79	

<sup>\*</sup>Specifications subject to change without notice

## V62 4000 Watt Conventional Power Amplifier

Designed specifically to meet the demands of heavy-duty live sound reinforcement touring systems and large-scale installations, the VTC Pro Audio V-Series V62 power amplifier uses a proven Class-H topology to deliver reliable, high headroom output power. Engineered for VTC Pro Audio by Yorkville Sound and manufactured at their Canadian factory, V-Series amplifiers are the culmination of Yorkville's forty-plus years of professional audio design expertise and manufacturing experience.

An impedance aware design deals with the realities of driving typical reactive speaker loads and addresses the associated problems such as thermal shutdown, inductive snap-back, and premature current limiting making the amplifier ultra-reliable in high performance applications. The V-Series V62 will easily drive reactive phase shifted loads while remaining fully protected against accidental short circuits.

Continuous Average Power @ 8 Ohms	800 Watts (x2) Both Channels Driven
Continuous Average Power @ 4 Ohms	1300 Watts (x2) Both Channels Driven
Continuous Average Power @ 2 Ohms	2000 Watts (x2) Both Channels Driven
Continuous Average Power Bridged	4000 Watts (@ 4 Ohms)
Burst Average Power @ 8 Ohms	1200 Watts (x2) Both Channels Driven
Burst Average Power @ 4 Ohms	2175 Watts (x2) Both Channels Driven
Burst Average Power @ 2 Ohms	3625 Watts (x2) Both Channels Driven
Burst Average Power Bridged	7200 Watts (@ 4 Ohms)
Rack Spaces	3
Transformer Type	Toroidal
Dimensions (DWH, inches)	19 x 18.5 x 25
Dimensions (DWH, cm)	48 x 47 x 63.5
Weight (lbs/kg)	41 / 18.6

<sup>\*</sup>Specifications subject to change without notice



Distributed in North America by Yorkville Sound