

# RACK

COMPLETE AMPLIFICATION SYSTEM



**CROWN**<sup>®</sup>  
by HARMAN

## CUSTOM-ENGINEERED CONVENIENCE. ONLY FROM CROWN.

The checklist for each performance setup is a demanding one. Building amplifier racks. Configuring systems. Safety approvals. Keeping technicians working efficiently.

Crown's VRack Complete Amplification System makes the job much easier for you and your team. Designed for optimum performance and setup simplicity, the VRack gives you a customized, turnkey amplification package, complete with full safety approvals.

With Crown-engineered components already built in and no assembly required, it's an easy-to-configure, all-in-one amplifier solution that eliminates the time-consuming process of building amp racks. This frees up your technical team to handle other important setup tasks.

Featuring innovative software for convenient, streamlined control, its superb worldwide power distribution means a versatile system that goes – and plays – anywhere.

*And it's all from one source – Crown, the industry leader in amplification.*

# TRACER

Powered by **CROWN** by HARMAN

**I-TECH 4X3500**  
DRIVECORE™ SERIES

**CROWN**

HD4

Master-EQ  
Pwr  
Mute

HD4

Master-EQ  
Pwr  
Mute

HD4



TRACER

# POWER

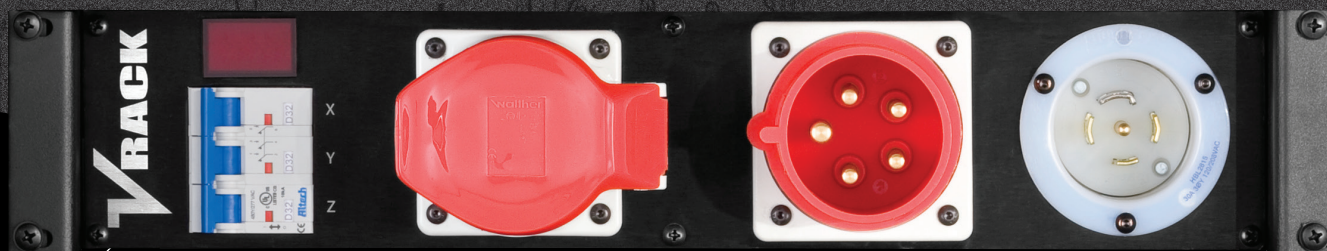
## GLOBAL POWER AT YOUR COMMAND

With your choice of three I-Tech 12000HD or I-Tech 4x3500HD amps in each VRack, power concerns are not a concern at all. The completely original switching power amp design provides greater fidelity at high and low power levels, more efficiency because it produces less waste heat, and more reliability because it's not subjected to excessive heat or stressed to its limits. With constant access to full rail voltage, you'll always have power on demand, and it greatly extends the V-I Plane boundaries to drive speaker loads no other amplifier can.

Crown's innovative Power Factor Correction technology, optimal output at all AC main voltages and frequencies, and one amp per phase are all factors that produce the unrivaled power generated by the VRack. And that's just some of the perks of the package; global power distribution is made possible by the 5 pin CEE Form and 5 pin Hubbell® Twist-Lock® on the power distro which, along with the rigging hardware and rack itself, are safety-certified to UL/CSA/ETL standards for local fire and safety inspections.

Even better is something else only Crown does: the power distro, rigging hardware and entire rack are all safety-certified to UL/CSA/ETL standards for local fire and safety inspectors.

*With the Crown VRack, the balance of power is in your favor.*



Global power with multiple inputs  
so you can get the power you need  
wherever you are.



# VERSATILITY

## PERFORMS BEAUTIFULLY – EVERYWHERE

Your venue hosts a variety of performances; the VRack handles a variety of venues. Designed in conjunction with JBL® for all VerTec® loudspeakers, its output flexibility also allows multiple configurations for any loudspeaker in your inventory. The VRack has AES, VDrive, Analog and Network inputs for multiple connections; the setup process is greatly simplified and more efficient. With the flip of a switch, you can run 120VAC or 208VAC in the U.S. or 220VAC to 240VAC for international venues. The optional captive suspension frame saves performance space and eliminates long speaker wire runs with numerous lifting and hoisting options. The VRack's versatility extends to delivery as well, since its dimensions permit easy shipment on U.S. and European truck configurations, sea containers and other transportation modes.

*The VRack provides versatility that simplifies your life.*

Shown with optional captive suspension frame



AES, VDrive, Analog and Network inputs provide setup flexibility and simplicity, plus easy loudspeaker integration.



## VRack 4x3500HD input panel



**VDrive - This switch serves two functions:**

**Network Link Output -** Also distributes VDrive digital audio.

**AES 1+2 -** Sends AES3 that is plugged into the AES3 connector to the right of this switch over the network connection.

**AES 3+4 -** If no AES3 connection is landed to the rack, this will pull the AES3 signal from a VRack within the network's ring topology that has AES3 landed to its connector and the VDrive switch engaged.

**AES Input -** This connector allows the signal to go directly to the amplifiers. If AES 1+2 or AES 3+4 are selected, the AES3 fed into this connector will send AES3 to the network connections via VDrive.

**AES Link Output -** If power is applied to the rack, the AES3 signal is buffered. If the rack is not powered on, the AES3 signal is not buffered.

**Analog Input/Output Section.**

**Network Link Output -** Also distributes VDrive digital audio.

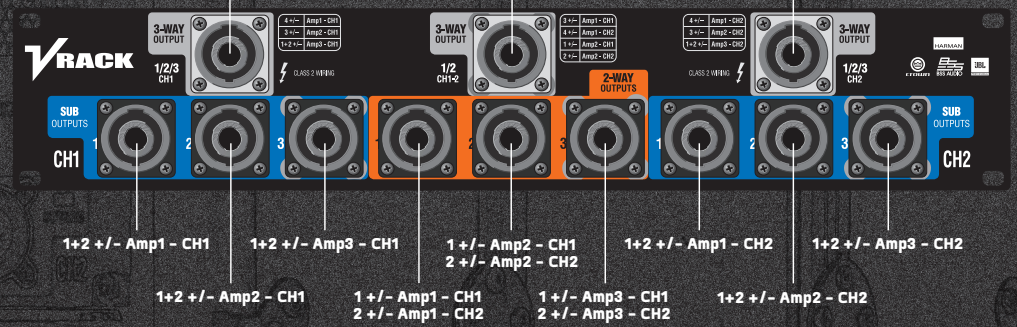
VDrive on/off for network out.

## VRack 12000HD input panel



**Rear Lights - Blue, White and Off**

## VRack 12000HD output panel



**NOTE: All SUB outputs jumpered: 1+ -> 2+ and 1- -> 2-**

# CONTROL

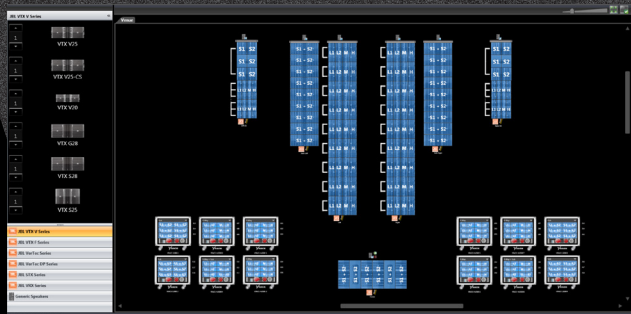
## RUN THE SHOW WITH EASE

For a performance, controlling the sound is essential, and the VRack puts effortless control capabilities at your fingertips.

HARMAN's HiQnet Audio Architect™ and Performance Manager™ software allows system monitoring and adjustment on a rack-by-rack basis, and you can make any changes for all three amps – to monitors, main PA, side fills, etc. – with just one interface. You can also monitor peak and RMS input and output metering, plus overall gain reduction. The built-in network and AES failover protects speakers in case of AC mains loss, with standardized package configurations designed to optimize speaker performance. The VRack's "go anywhere" ability also means greater cross-renting options, providing an added financial benefit.

Additional sound control comes from BSS Audio's superior OMNIDRIVEHD™ Digital Signal Processing which produces ultra-smooth, sonically pure signal processing that's four times faster than stand-alone processors. The LevelMAX™ Limiters guarantee a smooth response for superb sound and more usable peak SPL, while the audibly superior FIR Filters provide more than 10dB of additional stop band attenuation with greatly improved clarity.

*Take control of every performance with the Crown VRack.*



Performance Manager allows you to expertly design your system in a short amount of time by simplifying the task of networking while also automating control interface configuration.



Along with easy configuration, Audio Architect offers superb system control resources so you can run your entire inventory with one rack.



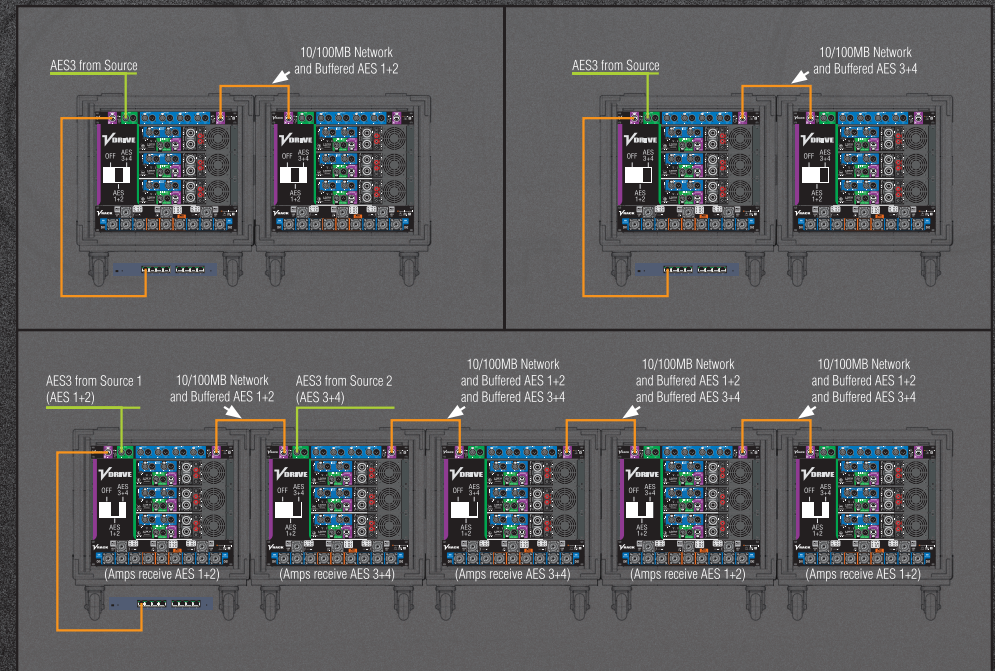
## VDRIVE WIRING SCHEMATIC

VDrive is a digital AES3 transport mechanism that combines a standard 10/100MB network connection with AES3 signals. VDrive uses the unused pins of a 10/100MB network to transport AES3 digital audio signals. As indicated in the top right chart, one is able to transmit 4 channels of digital audio using a standard CAT5 cable.

The idea behind VDrive is to connect your VRacks in a ring topology, feed AES3 into the first rack and select the switch of which AES3 stream (1/2 or 3/4) to send via the CAT5 connection to the next VRacks in the network ring. On the VRacks after the first rack, select via the VDrive switch which AES stream to pick off and send to that rack (see diagram to the right).

Take advantage of a total system-level solution engineered by the industry leader in amplification, and put the VRack to work for you.

RJ45 Pin #	WireColor(T568A)	WireDiagram(T568A)	10Base-T Signal 100Base-TXSignal	1000Base-T Signal
1	White/Green		Transmit +	BI_DA+
2	Green		Transmit -	BI_DA-
3	White/Orange		Receive +	BI_DB+
4	Blue		AES 1/2 +	BI_DC+
5	White/Blue		AES 1/2 -	BI_DC-
6	Orange		Receive -	BI_DB-
7	White/Brown		AES 3/4 +	BI_DD+
8	Brown		AES 3/4 -	BI_DD-



## A WARRANTY LIKE NO OTHER

The VRack provides incredible performance, and Crown backs up that performance with our guaranteed warranty – the best in the industry.

We have an extensive, thorough list of specifications on our VRack spec sheets, and our guaranteed 5 Year No-Fault Warranty covers every single one of them. Not just the amps – everything.

This means if something isn't quite right, no matter what it is (aside from normal wear and tear), Crown will fix it. And with our global network of support and service centers, you'll be back in business fast.

No one else offers a warranty this thorough. No one.

For complete warranty details, visit [crownaudio.com](http://crownaudio.com).



NLT4M

NLT4M



CH1

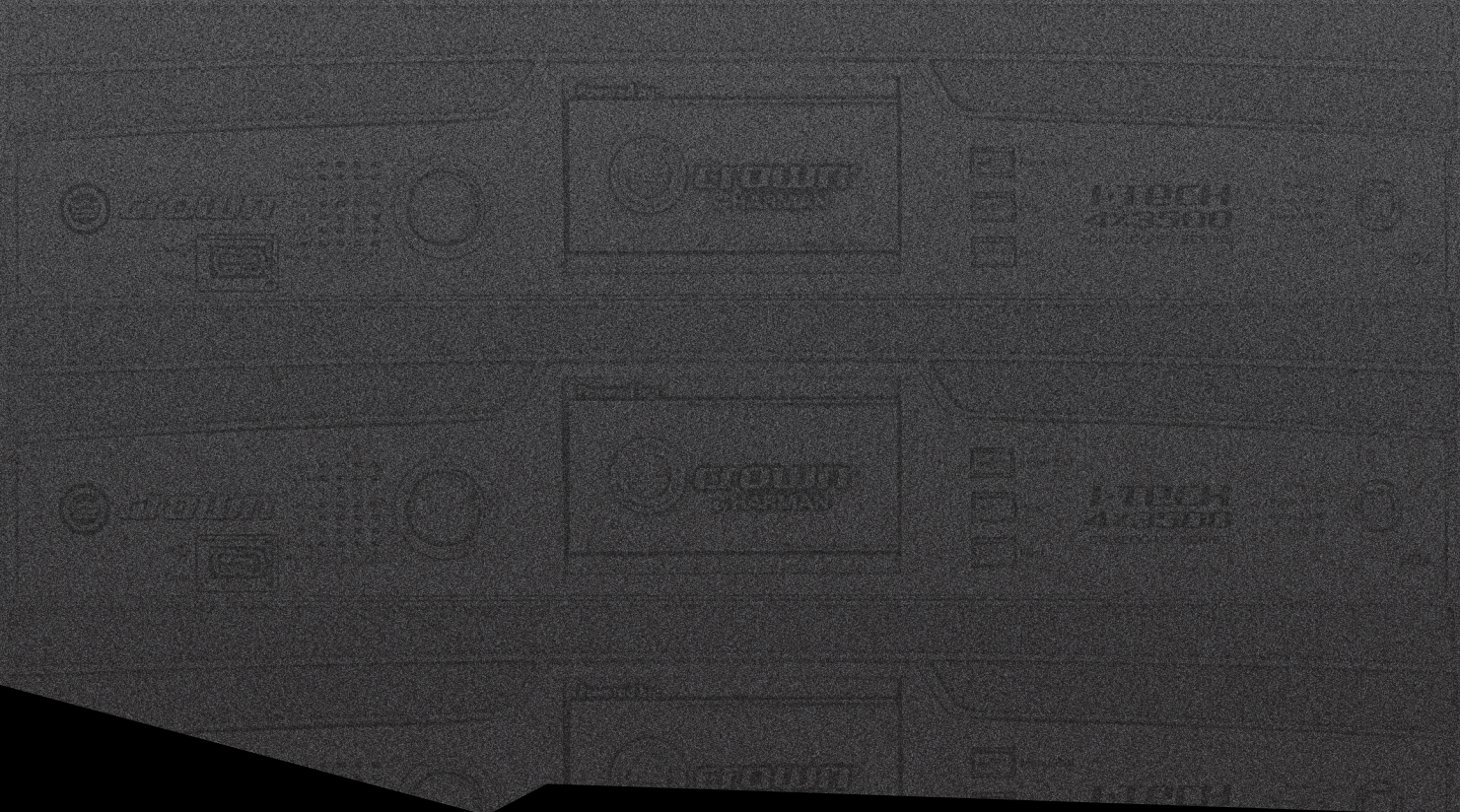
- 1+
- 1-
- 2+
- 2-

TURN TO LOCK



AMP 2

Cobra



To learn more about how the VRack simplifies your life with a complete amplifier system solution, call your local Crown representative or visit [crownaudio.com](http://crownaudio.com).