

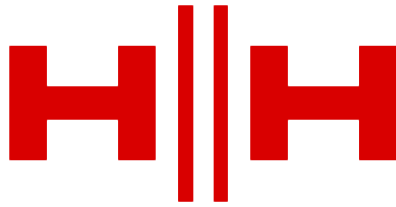


HH Vector Active Speaker System User Manual

[Home](#) » [HH](#) » HH Vector Active Speaker System User Manual 

Contents

- 1 HH Vector Active Speaker System
- 2 INTRODUCTION
- 3 Models
 - 3.1 VRE-8AG2
 - 3.2 VRE-12AG2 VRE-15AG2
- 4 MEDIA PLAYER (ALL MODELS)
 - 4.1 CONNECT TO BLUETOOTH DEVICE:
- 5 TWS
 - 5.1 SETTING UP THE CONNECTION
 - 5.2 FUSE REPLACEMENT
 - 5.3 VOLTAGE SELECTION
- 6 EXAMPLE SETUP
 - 6.1 VRE-8AG2
 - 6.2 VRE-12AG2 VRE-15AG2
- 7 DAISY CHAINING
 - 7.1 VRE-8AG2
 - 7.2 VRE-12AG2 and VRE-15AG2
- 8 HINTS AND TIPS
 - 8.1 QUICK TIPS
- 9 BLOCK DIAGRAM
 - 9.1 VRE-8AG2
 - 9.2 VRE-12AG2 and VRE-15AG2
- 10 SPECIFICATIONS
 - 10.1 VRE-8AG2
 - 10.2 VRE-12AG2
 - 10.3 VRE-15AG2
- 11 Documents / Resources
 - 11.1 References
- 12 Related Posts



HH Vector Active Speaker System



INTRODUCTION

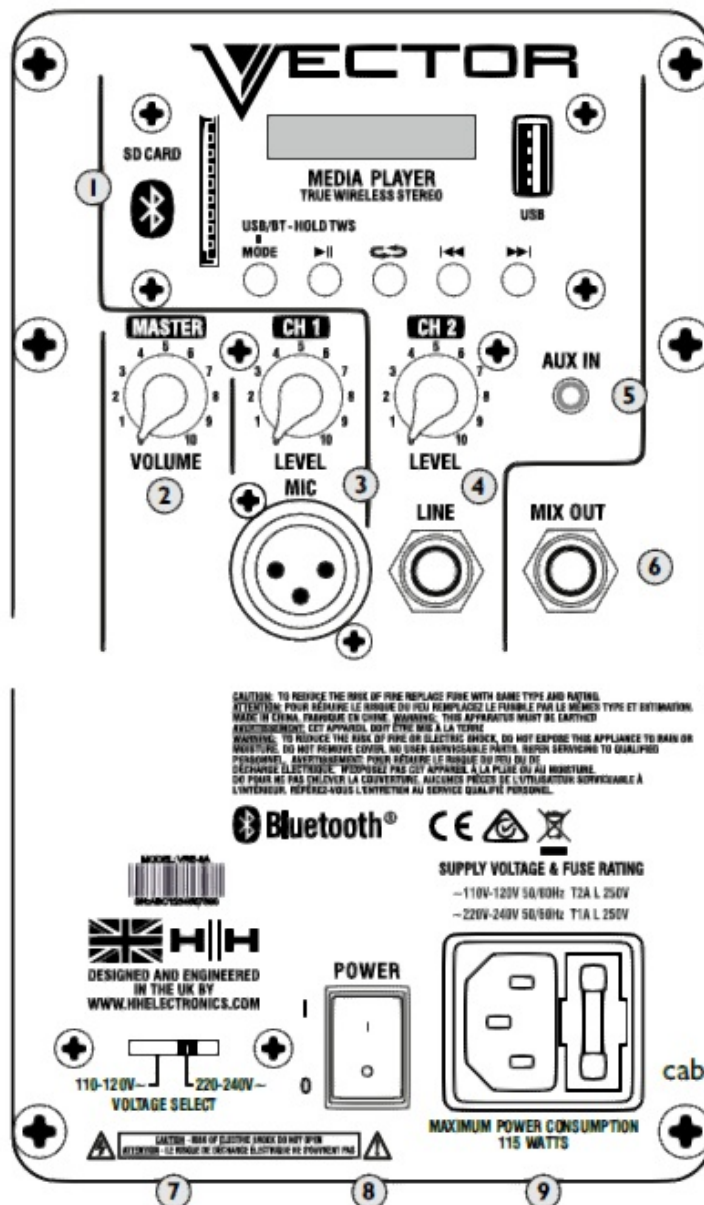
The HH Vector range of active enclosures are designed for high performance in a wide variety of demanding audio applications; and as such, ideally suited for uses in classrooms, business seminars and presentations, worship meets, parties, bars, BBQ's and musical performances.

Housing a flexible on-board mixer which includes a Bluetooth® equipped media player, each model in the Vector range gives you a compact yet flexible solution to your audio sound reinforcement requirements. These lightweight, portable, full range moulded enclosures, can be either floor standing, mounted on a pole or tripod stand (via the 35mm pole socket), or lay on their side to be used as a wedge monitor.

This manual contains important information regarding correct and safe operation of your active system. Please read it thoroughly in order to get the best performance and reliability from your new HH product.

Models

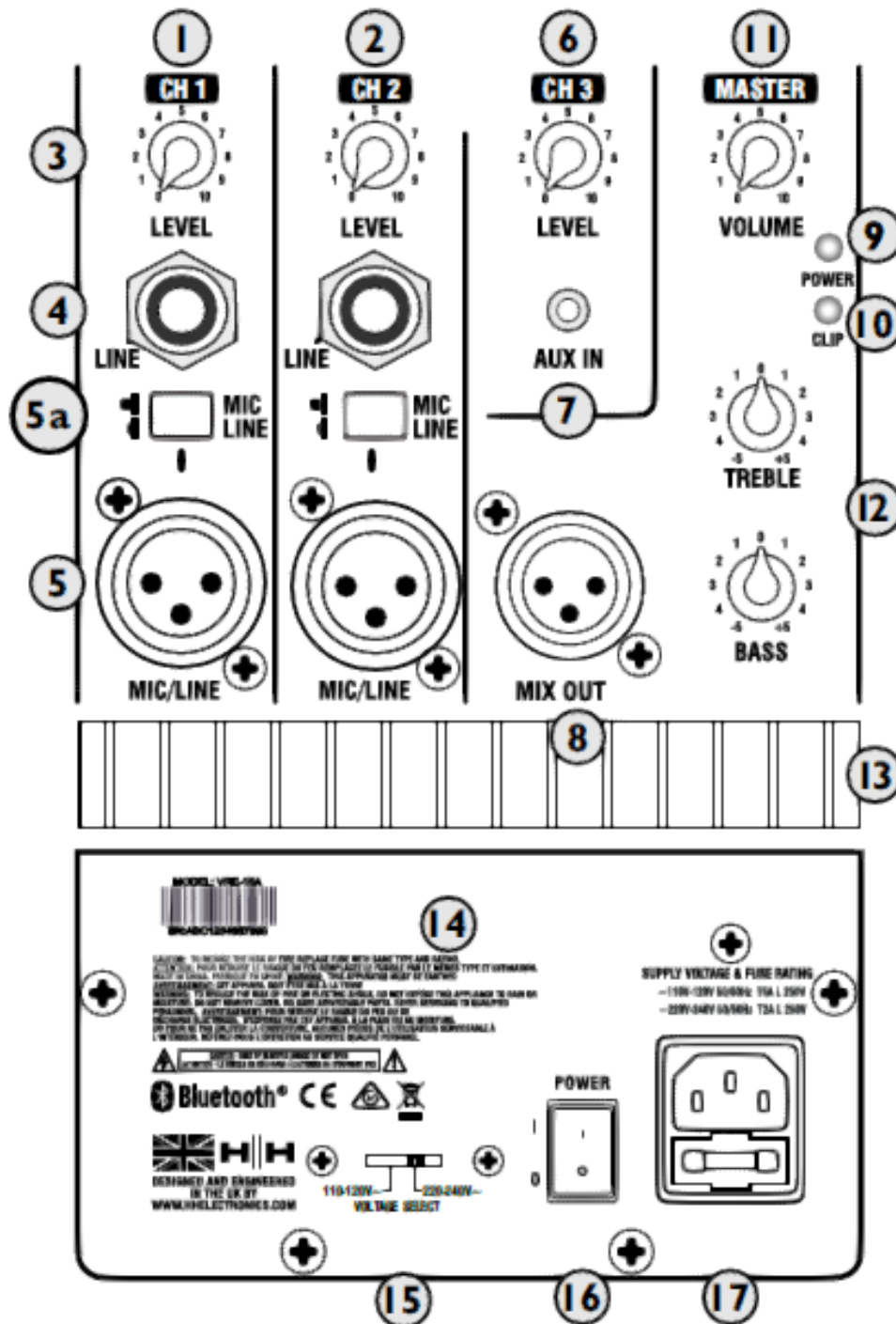
VRE-8AG2



1. **MEDIA PLAYER:** A versatile onboard player accepting SD card, USB thumb drive and connection via Bluetooth. In addition to this, a second cabinet can be connected via Bluetooth using the TWS (True Wireless Stereo) feature. See page 5 for more information.
2. **MASTER VOLUME:** Controls the overall level of your VRE-8AG2 system.
3. **CH1:** A mono Input channel with Level control and XLR Mic Input. Suitable for balanced or unbalanced low level/low impedance device eg. -mic (200-600ohms) or electro-acoustic guitar.
4. **CH2:** A mono Input channel with Level control and 6.3mm jack input. For Line Level devices, this input is suitable for a keyboard or drum machine for example.
5. **AUX IN:** A stereo Input for the connection of a Line Level device via the 3.5mm jack input. Please use a stereo cable when connecting to this Input. The Aux level is adjustable via the by channel 2 Level control.
6. **MIX OUT:** A BALANCED signal feed which can be used to connect a second Vector (daisy chained – see page 8), active wedge monitor, house PA or recording console for example.
7. **VOLTAGE SELECT SWITCH:** Although every effort has been made to select the correct voltage for the region of use, please check before powering up for the first time. Damage could occur if the voltage is incorrectly set. See page 6 for more information.
8. **MAINS SWITCH:** Turns the system on and off. Ensure the level controls are at minimum when switching on and off.

9. **MAINS INLET SOCKET AND FUSE:** IEC input for connection of an appropriate mains lead. Only replace fuse with the type indicated. See page 6 for more information.

VRE-12AG2
VRE-15AG2

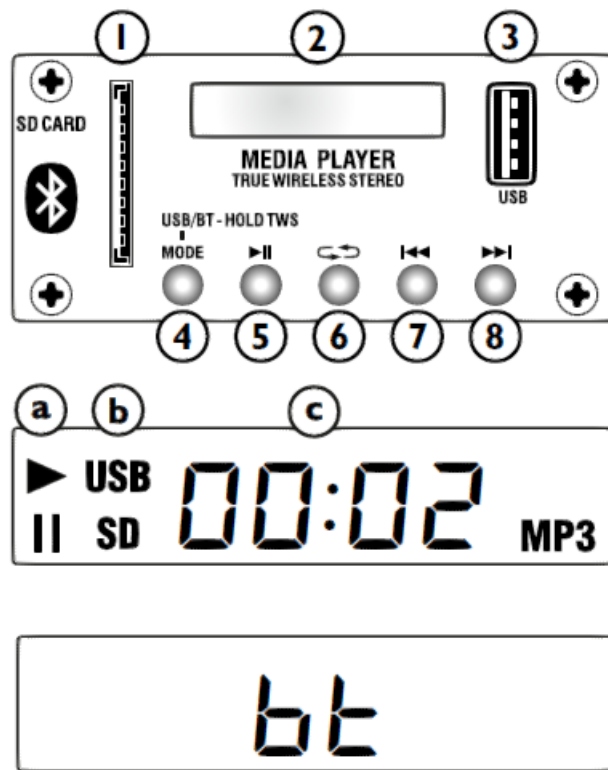


1. **CH1** : Mono Input channels.
2. **CH2**: Mono Input channels.
3. **LEVEL**: Use the Level control to set the channel volume.
4. **LINE INPUT**: An unbalanced input – for higher output line level devices eg. – keyboard, processor, drum machine.
5. **MIC/LINE INPUT**:
Use the push button (5a) to switch the XLR Skt between:
MIC: a balanced input for low level, low impedance devices eg. -mic (200-600 Ohms) or electro-acoustic guitar.

- LINE (via XLR Input):** A balanced input for higher output line level devices eg. – keyboard/drum machine.
6. **CH3 LEVEL:** Use this control to adjust the level of the onboard USB/SD player or an external (line level) signal feed connected to the AUX IN.
 7. **AUX IN:** This gives you the option to connect an additional line level device. Control the Level with CH3 Level control. Please use a stereo cable.
 8. **MIX OUT:** A BALANCED signal feed that can be used to connect to a second VRE cabinet (daisy chained – see page 8), active wedge monitor, house PA or recording console for example.
 9. **POWER LED:** This will illuminate when the unit is powered up. There is also a second power LED on the front of the cab.
 10. **CLIP LED:** Illuminates just before the amplifier begins to clip. Adjust the level controls and signal level from your source so this illuminates only briefly on peaks in the music.
 11. **MASTER VOLUME:** Controls the overall level of your VRE cabinet.
 12. **Active BASS and TREBLE:** These controls allow you to boost or cut the low/high frequency response of the amplifier.
 13. **HEAT SINK:** Cooling fins for the amplifier. Do not obstruct.
 14. **INFORMATION:** Area relating to the amplifier: Serial Number, operational information, power rating, etc.
 15. **VOLTAGE SELECT SWITCH:** Although every effort has been made to select the correct voltage for the region of use, please check before powering up for the first time. Damage could occur if the voltage is incorrectly set. See page 6 for more information.
 16. **MAINS SWITCH:** Turns the system on and off. Ensure the Level/Volume controls are at minimum when switching on and off.
 17. **MAINS INLET SOCKET AND FUSE:** IEC input for connection of an appropriate mains lead. Only replace the fuse with the type indicated for your mains voltage. See page 6 for more information. Pay special attention to additional safety information on rear panel.

MEDIA PLAYER (ALL MODELS)

Use the onboard player for playing MP3 encoded audio tracks from SD card/USB or Bluetooth® device.



1. **SD CARD SLOT:** Insert your standard SD card here. (Automatically detected on insertion, or if removed and reinserted uses smart technology to resume play from the previous point).
2. **DISPLAY SCREEN:** Display track information.
 - a. Play or Pause indicator.
 - b. What device is being used: USB or SD Card.
 - c. Time into track.
 - d. "bt" is displayed when connecting to a Bluetooth Device.
3. **MEMORY STICK SLOT:** Connect your USB thumb drive here. If removed and reinserted, the system uses smart technology to resume play from the previous point.
NOTE. The USB socket is for the playback of recorded tracks only, not for charging a USB device.
4. **MODE:** Select the input source – SD card USB, Bluetooth/TWS with two cabinets. See page 6 for more information.
5. **PLAY/PAUSE:** Use this control to play or pause your MP3 music/backing track.
6. **LOOP:** Use this to enable/disable the looped playback modes. When using this button with an SD card or USB thumb drive, there are 3 options:
 - **ALL** – Plays all the tracks on the root of the device in date order, then the sub folders.
 - **ONE** – Plays one track repeatedly (cycle to the required track to play using NEXT button (8)).
 - **FOD** – Plays all track in the current active folder.
7. **PREVIOUS:** Press to skip to the preceding track. A prolonged press will reduce the volume of the MP3 player.
8. **NEXT:** Press to skip to the next track. A prolonged press will increase the volume of the MP3 player.

CONNECT TO BLUETOOTH DEVICE:

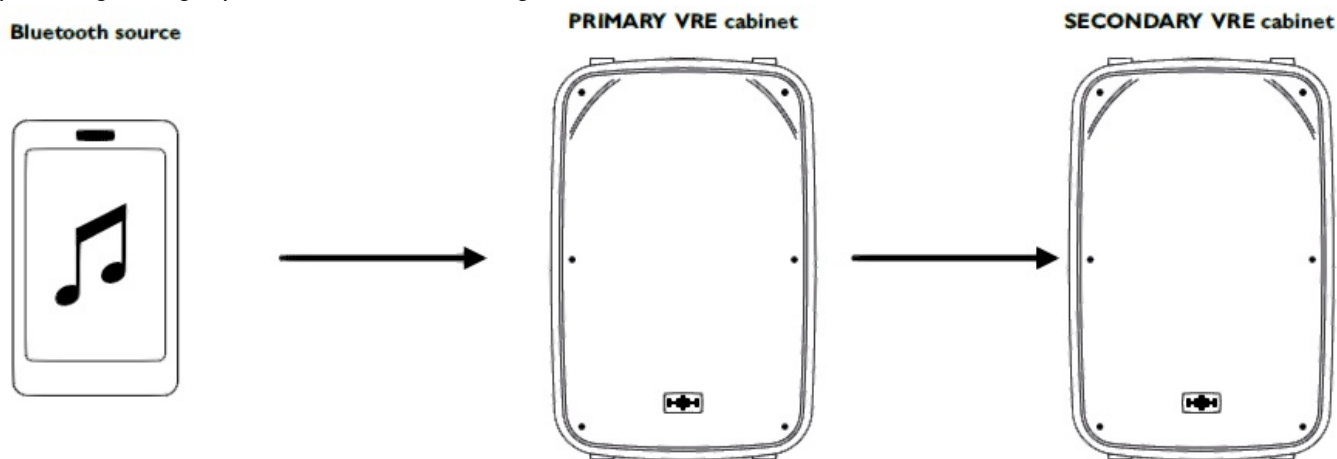
- Toggle through the system modes and select Bluetooth (using MODE switch (4)).
- On your Bluetooth capable device, make sure Bluetooth is enabled. Scan down the list of available devices - search for: HH Vector and select.

- Your Vector enclosure is now connected to your Bluetooth device and controlled using the PLAY/PAUSE, PREVIOUS and NEXT BUTTONS.
- Switching between a USB device and a Bluetooth device is possible, but the Bluetooth device will need to be re-selected by pressing the MODE button once.

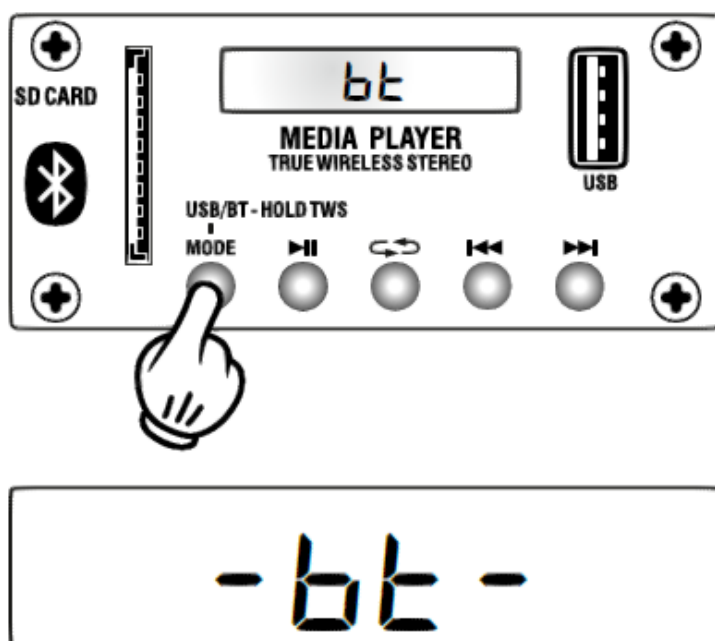
Always switch off and disconnect the power cord when not in use.

TWS

True Wireless Stereo is a feature that allows for the connection of two VRE cabinets to a Bluetooth capable device. The result is a true stereo system via Bluetooth with the first VRE providing the left and the second providing the right portion of the stereo image.



SETTING UP THE CONNECTION

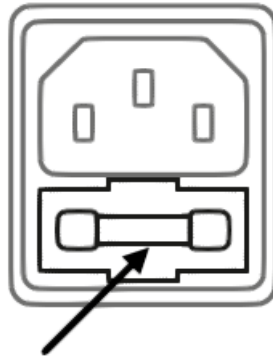


1. Connect the first VRE cabinet to a Bluetooth capable device as shown on the previous page.
2. Using the Mode switch, select Bluetooth mode on secondary cabinet, then hold the MODE switch for a further 5 – 10 seconds, then release. BT will appear on the display of both cabinets (flashing on and off) and indicates the TWS connection is in progress.
3. Once the connection has been established, the image (to the left) will appear on the display of both Primary

and Secondary cabinet.

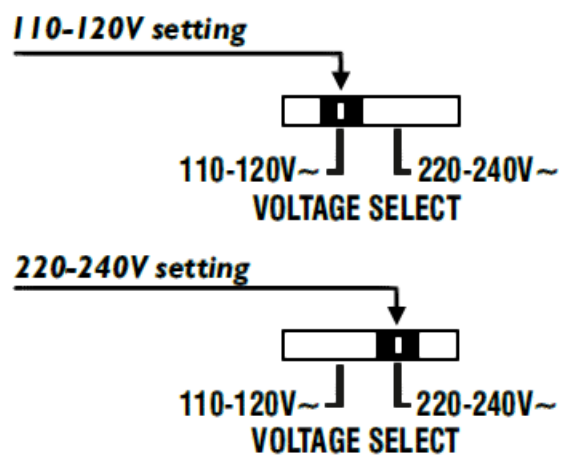
Switch off and disconnect the power cord before proceeding.

FUSE REPLACEMENT



1. Slide out the fuse holder tray.
2. Only replace fuse with the same type and power rating as specified on the rear panel.

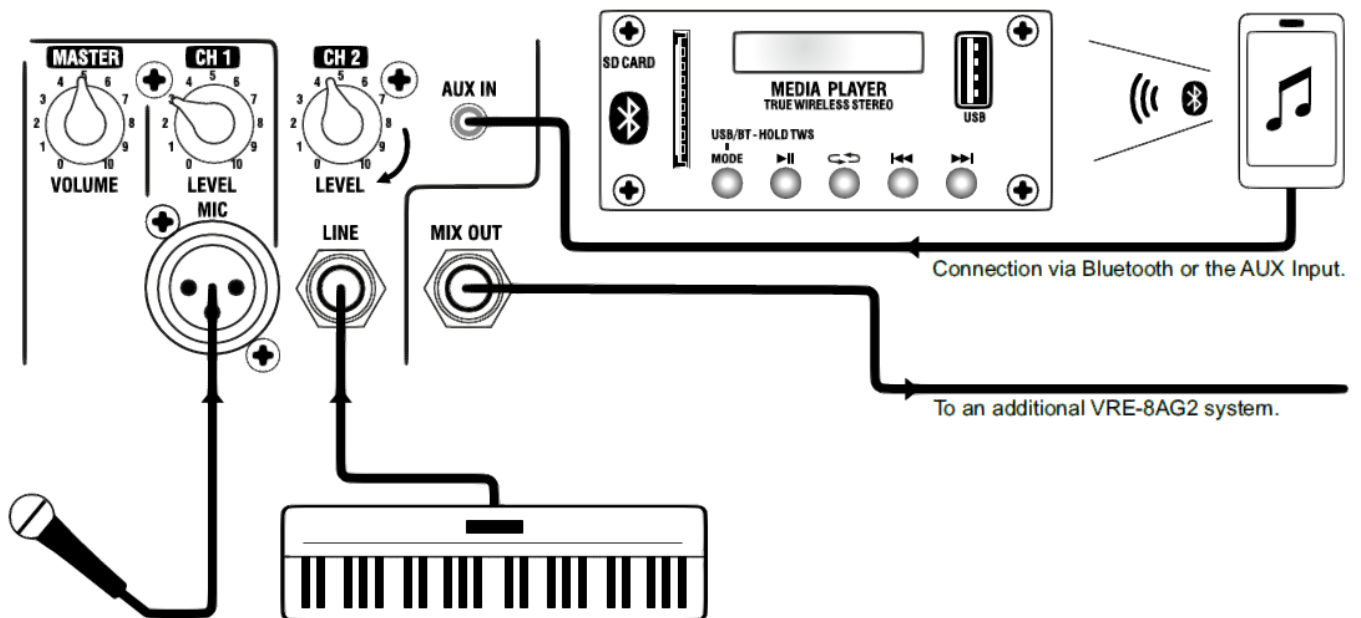
VOLTAGE SELECTION



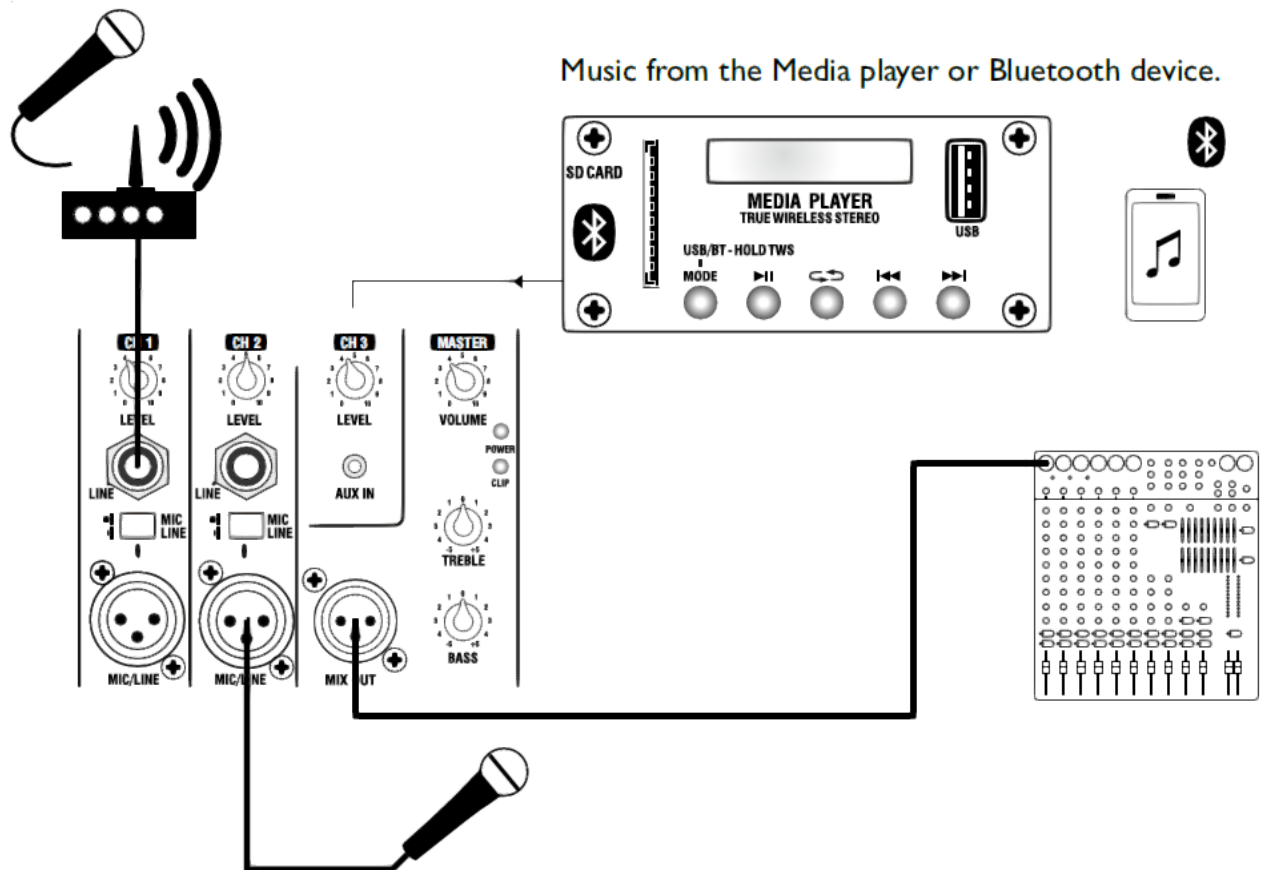
Using a suitable tool, slide the voltage selector switch to the required operating voltage.

EXAMPLE SETUP

VRE-8AG2



VRE-12AG2
VRE-15AG2



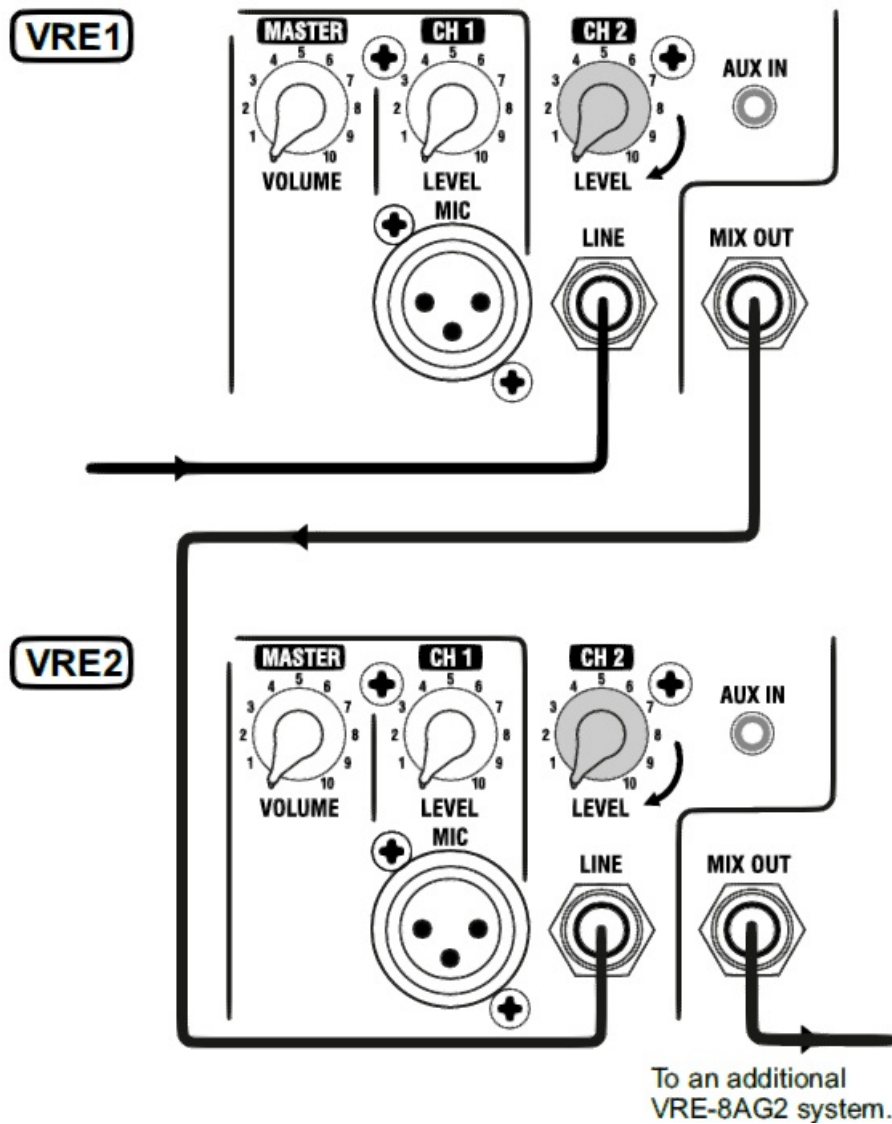
DAISY CHAINING

VRE-8AG2

Utilizing the MIX OUT to connect an additional VRE system.

The signal from the MIX OUT is at line level, so should be connected to the INSTRUMENT input of the following system.

Any number of VRE can be connected in this way.



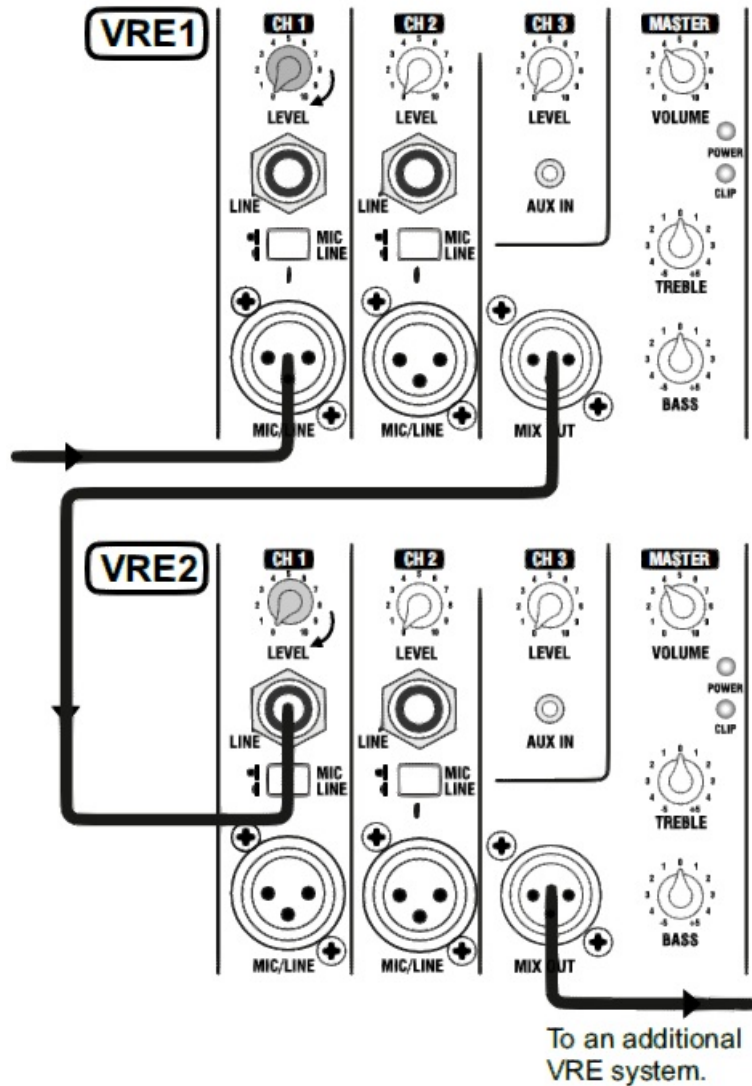
VRE1:

Initially set CH2 LEVEL control to zero, and in conjunction with the MASTER VOLUME control, adjust to achieve the desired listening level.

VRE2:

Set the MASTER VOLUME to the same level as that on the VRE-8AG2 primary.

Slowly increase CH2 LEVEL control to achieve the correct level balance between the two cabinets.



VRE1:

Initially set CH2 LEVEL control to zero, and in conjunction with the MASTER VOLUME control, adjust to achieve the desired listening level.

VRE2:

Set the MASTER VOLUME to the same level as that on the VRE-8AG2 primary.

Slowly increase CH2 LEVEL control to achieve the correct level balance between the two cabinets.

HINTS AND TIPS

UNPACKING

Inspect the product during unpacking, if any damage is found, notify the dealer you purchased it from immediately. Be sure to save the carton and all packaging materials. Should you ever need to return the unit back to the dealer use only the original factory packing. Pack all cables neatly, use cable ties to tidy excess cable length in 'figure-8' not loops.

BASIC SETUP

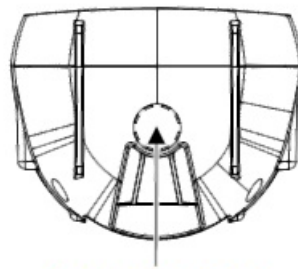
HH VRE cabs can be mounted on the floor, or a suitable pole or tripod. Don't over-extend poles/tripods; ensure at least 4 x the pole diameter is still inside the outer pole. Make sure the legs have a good splay on tripods, but do not obstruct doorways or other access-ways.

If a pole mount is used, make sure that the thumb screw on the cabinet is tight.

SWITCHING OFF

After using the amplifier, please adjust the gain controls to their lowest settings, then the amplifier can be turned off safely. Turn the power switch to the OFF position and remove the power cord from the electrical source.

NOTE: Do not connect or disconnect from the input signal source when the amplifier is turned ON, damage could occur to the amplifier and the speaker.



35mm pole socket

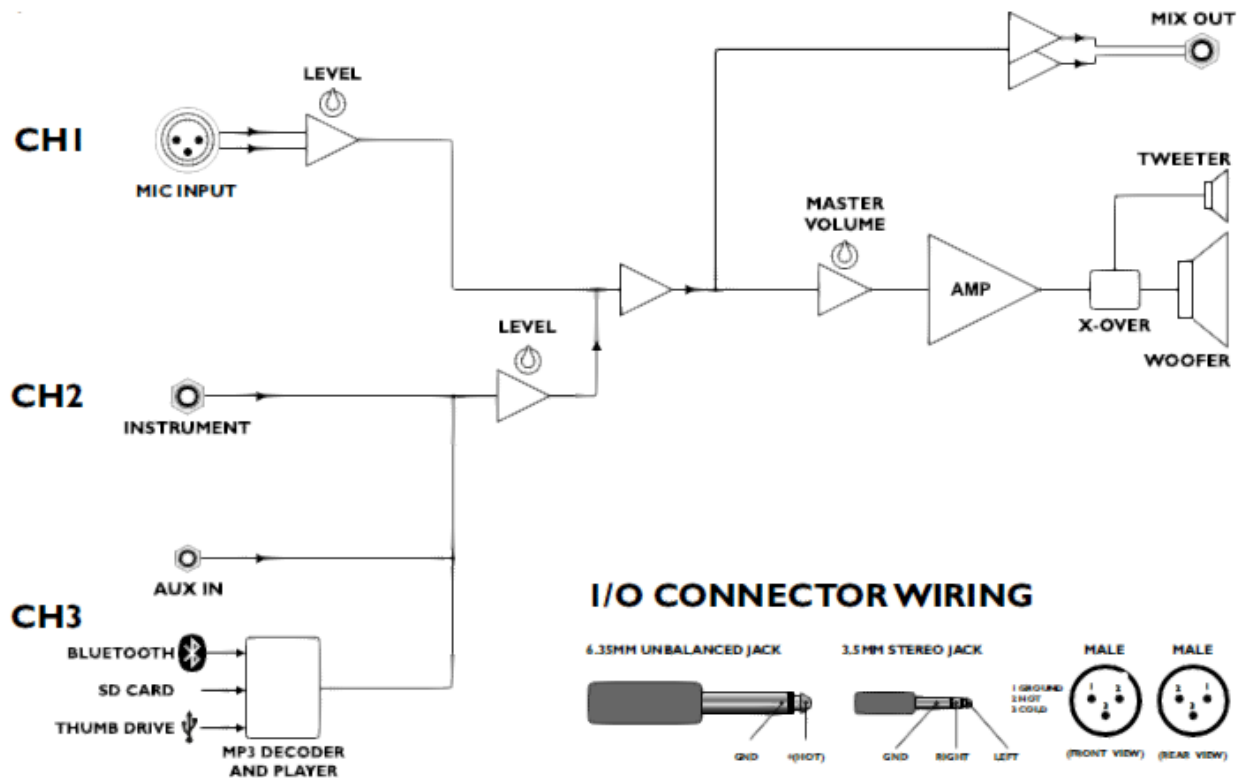


(Stand not included)

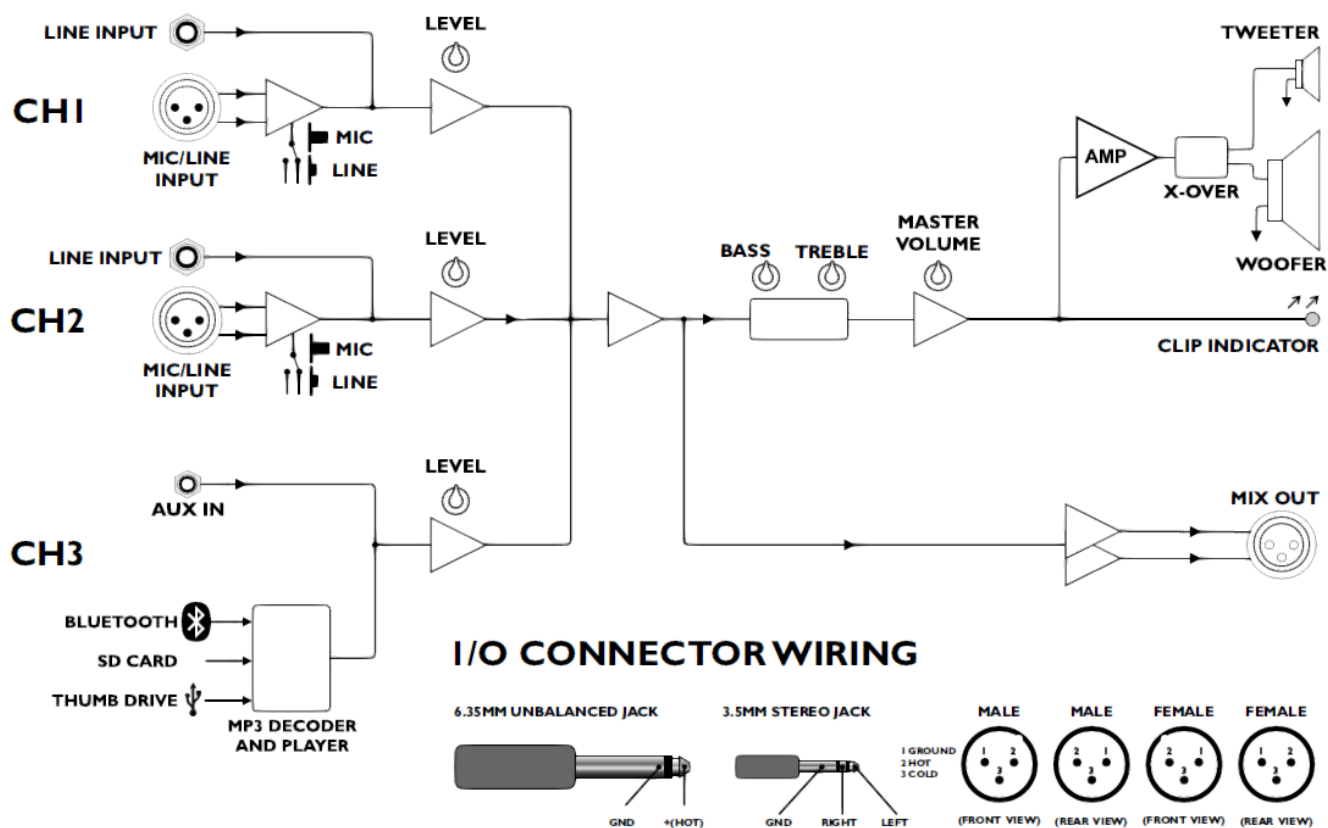
QUICK TIPS

- Use electronic safety devices such as circuit breakers.
- Start with EQ settings flat and gains low.
- Master volumes should be at zero for switch on and off.
- Use the minimum cut or boost in EQ. If all bands are boosted or cut, flatten EQ, re-adjust gain and start again.
- Use input gain to set maximum signal level without distortion.
- Set up mic levels first, and adjust other equipment to match.
- Avoid very high onstage levels from backline amps.
- Avoid damp environments and extremes of temperature for storage and use of all audio equipment.
- Look after your cables. Do not stand equipment on, or run cases over them, do not tie knots in them and always use them for the correct application (a signal lead is NOT a speaker lead). Coil and secure with cable ties before storing.
- Ensure your equipment is properly loaded and cannot move around during transit.
- Keep lights away from speakers; heat can cause fires/speaker damage.
- Don't run cables across access-ways; if you have to, run them above doors or use approved cable covers.
- Be aware of total power usage. Overloading a mains socket is potentially dangerous, and likely to cause a power out during use.
- Keep power and signal cables apart.

BLOCK DIAGRAM



VRE-12AG2 and VRE-15AG2



SPECIFICATIONS

VRE-8AG2

Power Rating	300W Peak
--------------	-----------

Amplifier Type	Class A/B
Power Supply	Linear Toroidal PSU – Switchable Voltage
Inputs	1x balanced XLR 1x 6.3mm single ended jack inputs, 1x 3.5mm stereo in, Media player with Bluetooth 5.0, USB and SD card
Outputs	Balanced 6.3mm Jack mix out.
Controls	CH1,2 Gain controls, Master Volume
Speaker	
HF Driver	1" Compression Driver
LF Driver	8" Woofer
Coverage	90°H X 40°V
Enclosure	
Cabinet	Robust polypropylene cabinet with two handles and monitor angle
Finish	Black
Grille	Powdercoated steel, Black with acoustic foam backing
Other	35mm Distance Pole Socket
Unit dimensions (HWD)	39 x 25.5 x 19.5 CM 15.4" x 10" x 7.7"

Unit weight	5Kg, 11 lbs
Carton dimensions (HWD)	45.5 x 30 x 25.3 CM 17.9" x 11.8" x 10" , 0.035 M3
Packed weight	6.5Kg, 14.3 lbs

In the interest of continued development, HH Electronics reserves the right to amend product specification without prior notification.

VRE-12AG2

Power Rating	800W Peak
Amplifier Type	Class A/B
Power Supply	Linear Toroidal PSU – Switchable Voltage
Inputs	2x balanced XLR with mic/line switch, 2x 6.3mm single ended jack i 1x 3.5 mm stereo jack in, Media player with Bluetooth 5.0, USB and
Outputs	Balanced XLR mix out.
Controls	CH1,2,3 Gain Controls, Master 2 Band EQ, Master Volume
Speaker	
HF Driver	1" Compression Driver
LF Driver	12" Woofer
Coverage	90°H X 40°V

Enclosure		
Cabinet	Robust polypropylene cabinet with three handles and monitor ang	
Finish	Black	
Grille	Powdercoated steel, Black with acoustic foam backing	
Other	35mm Distance Pole Socket	
Unit dimensions (HWD) 58.5 x 36.5 x 32.5 CM 23" x 14.4" x 12.8"	
Unit weight	10.3Kg, 22.7 lbs	
Carton dimensions (HW	D)	65.8 x 43.5 x 36 CM 25.9" x 17.1" x 14.2" , 0.103 M3
Packed weight	13Kg, 28.7 lbs	

In the interest of continued development, HH Electronics reserves the right to amend product specification without prior notification.

VRE-15AG2

Power Rating	800W Peak
Amplifier Type	Class A/B

Power Supply	Linear Toroidal PSU – Switchable Voltage
Features	
Inputs	2x balanced XLR with mic/line switch, 2x 6.3mm single ended jack 1x 3.5mm stereo jack in, Media player with Bluetooth 5.0, USB an card
Outputs	Balanced XLR mix out.
Controls	CH1,2,3 Gain Controls, Master 2 Band EQ, Master Volume
Speaker	
HF Driver	1" Compression Driver
LF Driver	15" Woofer
Coverage	90°H X 40°V
Enclosure	
Cabinet	Robust polypropylene cabinet with three handles and monitor an
Finish	Black
Grille	Powdercoated steel, Black with acoustic foam backing
Other	35mm Distance Pole Socket


Unit dimensions (HWD) 69 x 44 x 37 CM 27.2" x 17.3" x 14.6"
Unit weight	13.5Kg, 29.8 lbs
Carton dimensions (HW	D) 76.5 x 49.7 x 41 CM 30.1" x 19.6" x 16.1" , 0.156 M3
Packed weight	16.9Kg, 37.3 lbs

In the interest of continued development, HH Electronics reserves the right to amend product specification without prior notification.



www.hhelectronics.com

Documents / Resources

 <small>ACTIVE SPEAKER SYSTEMS</small> VECTOR <small>VRE-8AG2 VRE-12AG2 VRE-15AG2</small> <small>USER MANUAL</small>	HH Vector Active Speaker System [pdf] User Manual Vector Active Speaker System, VRE-8AG2, VRE-12AG2, VRE-15AG2
--	---

References

- [hhelectronics.com](http://www.hhelectronics.com)