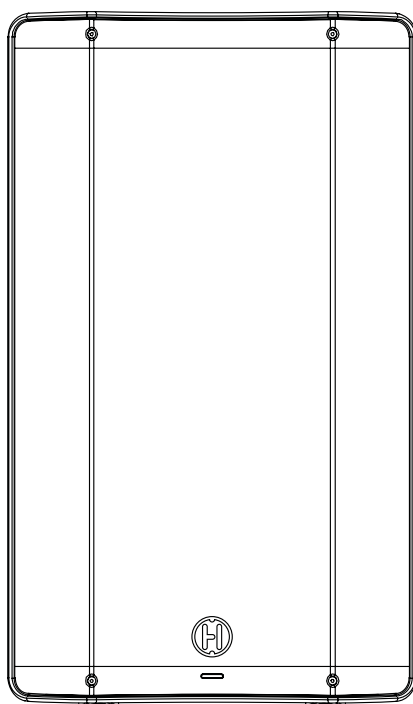




HARBINGER

VR412
OWNER'S MANUAL



VR412

VARI
S E R I E S



WELCOME

The Harbinger **VR412** Series Powered Speakers each combine 2500 watts of peak power with visually controlled DSP, and our exclusive XR Transducer Technology. Combined with versatile inputs, outputs and controls, these capabilities deliver premium sound reproduction with great flexibility.

VR412 12-inch 2-way Powered Speaker

- 12-inch speaker, plus high precision high frequency compression driver
- Bluetooth audio input, dual mic/instrument inputs, dedicated stereo line input and aux input – all available simultaneously
- Visually controlled DSP providing selectable Voicings, customizable Presets, Location tuning, adjustable Sub Cut, and direct-access Bass and Treble controls, as well as a transparent and dynamic limiter, and high precision crossover for extremely accurate, high fidelity sound
- Innovative Smart Stereo™ capability, with easy volume and tone control for one or more pairs of speakers from a master unit
- Versatile cabinet allowing free-standing, pole mounted, and lay-flat floor monitor placement
- OUT jack provides audio for other monitoring systems or separate subwoofer

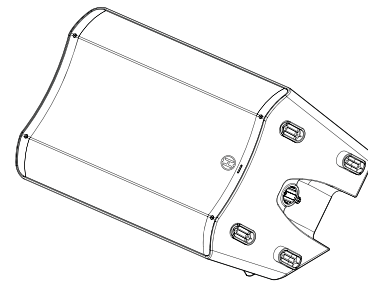
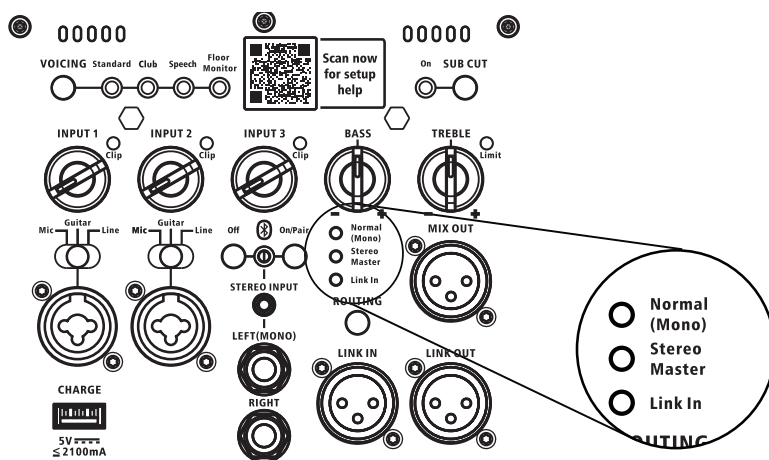
QUICK START GUIDE: SINGLE VR412

SETTING UP / HELPFUL TIPS

- Position your VARI in the desired location, and ensure it is stable.
- Make sure the Power Switch is off.
- Turn Channel 1, 2, and 3 knobs to minimum.

MAKING THE CONNECTIONS

- Connect sources to INPUT 1, 2 and 3 jacks as desired. (All these input jacks can be used at once, along with Bluetooth audio input.)



Main



Speaker stand
not included

CHECK SWITCHES

Check that Normal (Mono) ROUTING LED is lit

Check that INPUT 1 and INPUT 2 switches match sources:

- Mic for microphones, or line level sources with low output volumes
- Guitar for acoustic guitar or pedal board output
- Line for mixers, keyboards and other electronics

POWERING UP

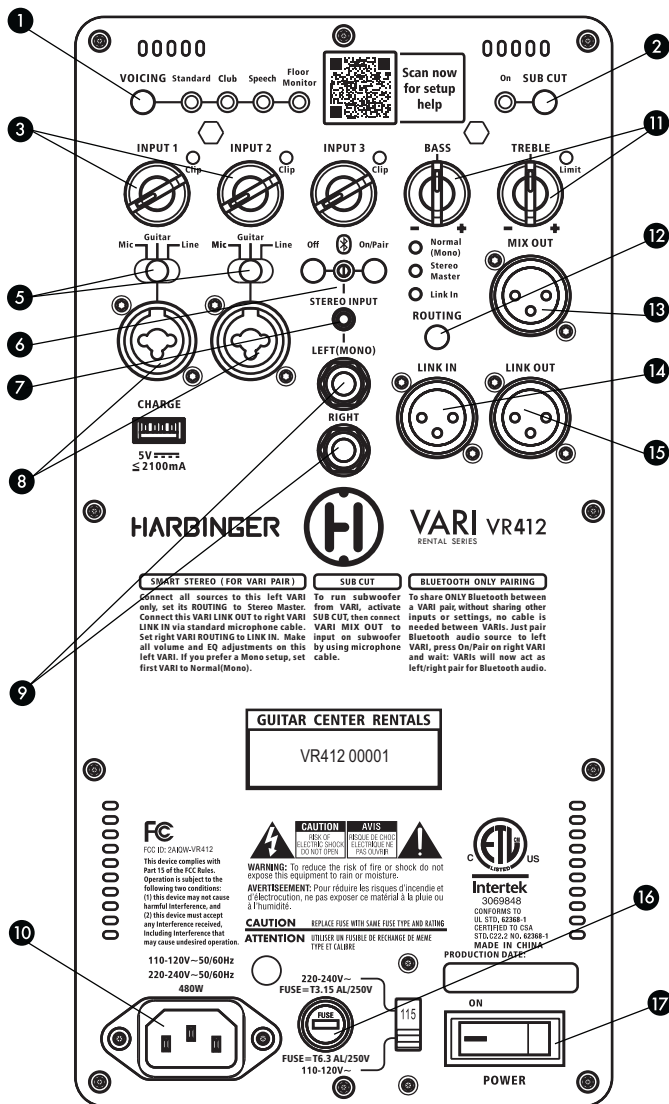
- Power on any devices connected to input jacks.
- Turn up the output volume of all sources.
- Turn INPUT 1, 2, 3, Bass, Treble, and Master Volume knobs to desired levels.

BLUETOOTH AUDIO INPUT

- Press On/Pair button so Blue LED flashes
- From your Bluetooth audio source device, look for VR412 and select it.

FOR FLOOR MONITOR USE

- Set Location to Floor Monitor (see page 12 for details)



1 VOICING

Pressing the button selects from the available voicings (tunings) for different applications:

- Standard: for general use including music playback.
- Club: for boosted bass, good for low volume use with electronic music.
- Speech: for public speaking, may also be helpful for solo performers who are singing along with acoustic guitar.
- Floor Monitor: for enhanced clarity and reduced feedback potential for floor monitors, also may be helpful to avoid excessive bass from wall mounted speakers.

2 SUB CUT

Applies a crossover to tune VR412 for use with a subwoofer.

- Low frequencies are cut from VR412 amplifier/speaker.
- MIX OUT jack provides these low frequencies, to feed a subwoofer.

3 INPUT 1 AND 2 KNOBS

These knobs set the volume for the inputs below them.

4 INPUT 3 KNOB

Sets the volume for all the inputs below, including Bluetooth audio, aux, and left (Mono) and Right line inputs.

5 MIC/GUITAR/LINE SWITCHES

Set these to match the type of source connected to the input below them.

- Mic: for microphones, or line level sources with low output volumes
- Guitar: for acoustic guitar or guitar pedal board
- Line: for line level sources

6 BLUETOOTH

Press On/Pair to enable Bluetooth audio input, and initiate pairing.

- To pair, look for VR412 from your Bluetooth audio source device.
- LED is lit solid when currently paired, blinking when available for pairing, and off if Bluetooth has been disabled by a press of the Bluetooth Off button.
- On/Pair button forces any currently connected Bluetooth audio source to disconnect, and makes the speaker available for pairing.
- Off button disables Bluetooth. If Bluetooth is off when you turn power off, it will remain off when you turn power on.

7 AUX INPUT

Audio from smartphones, computers and other consumer audio devices can be connected here.

8 INPUT 1 AND 2 JACKS

Connect XLR or 1/4-inch cables.

9 BALANCED LINE INPUTS

Balanced or unbalanced line level sources can be connected here.

10 POWER INPUT

Connect provided power cable here.

11 BASS AND TREBLE KNOBS

Adjust the sound of your speaker.

12 MONO / STEREO MASTER / LINK IN BUTTON & LEDS

- Mono: This speaker will output mono audio, and send mono audio to the LINK OUT jack so it's available for any other speaker or sound system.
- Stereo Master: This speaker will operate as the master speaker of a Smart Stereo pair. Use a mic cable to connect this speaker's LINK OUT to the LINK IN jack of a second speaker of the same type. All inputs should be connected to the first master speaker, which will also set the volume and tone of both speakers.
- Link In: Use this setting for the second speaker of a Smart Stereo pair. The audio from the LINK IN will be routed directly to the power amp and speaker, with all other inputs and controls being ignored. This jack feeds directly through to the power amp, bypassing all volume and tone controls of the amplifier.

13 MIX OUT JACK

Usually sends out mono audio.

14 LINK IN JACK

Activated only when 12 switch is set to LINK IN.

15 LINK OUT JACK

- Mono: sends out mono audio (see also DI For Stereo master on page 13).
- Stereo Master: sends out audio for second speaker's LINK IN
- Link In: sends out the same audio received at the LINK IN jack

16 FUSE

If the speaker will not power on and you suspect its fuse may have blown, turn off the power switch, and open the fuse compartment using a small flat blade screwdriver. If metal strip in fuse is broken, replace with T6.3 AL/250V type only for 100-120V use, or T3.15 AL/250V type only for 220-240V use.

17 POWER SWITCH

Switches the power on and off.





SPECIFICATIONS CONTINUED

HARBINGER VARI Series		VR412
Amplifier Continued	Input 3	Stereo Line: Left/mono and right 1/4-inch TRS balanced/ unbalanced compatible audio line inputs Aux: 1/8-inch mini TRS unbalanced input (-10dB) Bluetooth Audio: with On/Pair and Off buttons plus LED
	Link In	XLR balanced +4dBv audio input
	Out Jack	XLR balanced +4dBv audio output
	Power Output	2500 Watts Peak
	Bass EQ Knob	+/-12dB Peaking Filter at 65Hz
	Treble EQ Knob	+/-12dB Shelf at 6.5kHz
	Volume	Volume control per channel
	Power Input	100-120V, 220-240V, 50-60Hz
	Features	Removable AC Power Cord Front LED, configurable to indicate power or power/limiter, also indicates app connection Color LCD display for DSP control
Speaker	Type	15" 2-way vented design
	Frequency Response	35-22K Hz
	Max SPL@1M	130dB
	HF Driver	Compression Driver, 8 Ohm, XR Transducer Technology
	LF Driver	15" Driver, 4 Ohm, XR Transducer Technology
	Cabinet	Polypropylene, with rubber surfaced handles and feet
	Grille	1.2mm steel
	Suspension Points	3 x M10 Suspension Points
	Pole Mount	35mm stand pole with M6 screw
	Product Dimensions	16.5" x 15.0" x 27.1"
Dimensions and Weights	Packaging Size	20.1" x 19.5" x 31.1"
	Net Weight	48 pounds
	Gross Weight	57 pounds



IMPORTANT SAFETY INSTRUCTIONS

To prevent electric shock, do not use a polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	
<p>CAUTION: To reduce the risk of electric shock, do not remove chassis. No user-serviceable parts inside. Refer servicing to qualified service personnel.</p> <p>AVERTISSEMENT: Pour réduire les risques d'incendie et d'électrocution, ne pas exposer ce matériel à la pluie ou à l'humidité.</p>			



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.



APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

HEARING DAMAGE AND PROLONGED EXPOSURE TO EXCESSIVE SPLs

Harbinger VARI Series powered loudspeakers are capable of producing extremely loud volume levels that can cause permanent hearing damage to performers, production crews or the audience. Hearing protection is recommended during long-term exposure to high SPLs (sound pressure levels).

Remember, if it hurts, it is definitely too loud! Long term exposure to high SPLs first causes temporary threshold shifts; limiting your ability to hear the actual loudness and exercise good judgment. Repeated long term exposure to high SPLs will cause permanent hearing loss.

Please note the recommended exposure limits in the accompanying table. More information about these limits is available on the US government Occupational Safety and Health (OSHA) website at: www.osha.gov.

Permissible Noise Exposures (1)

Duration per day, hours	Sound level dBA slow response
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
0.5	110
0.25 or less	115

FCC STATEMENTS

1. Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses, and can radiate radio frequency energy and , in not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful



interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help



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FCC STATEMENTS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.



WARRANTY/CUSTOMER SUPPORT

2 YEAR HARBINGER LIMITED WARRANTY

Harbinger provides, to the original purchaser, a two (2) year limited warranty on materials and workmanship on all Harbinger cabinets, loudspeaker and amplifier components from the date of purchase.

For warranty support, please visit our website at **www.HarbingerProAudio.com**, or contact our Support Team at **888-286-1809** for assistance. Harbinger will repair or replace the unit at Harbinger's discretion.

This warranty does not cover service or parts to repair damage caused by neglect, abuse, normal wear and tear and cosmetic appearance to the cabinetry not directly attributed to defects in materials or workmanship. Also excluded from coverage are damages caused directly or indirectly due to any service, repair(s), or modifications of the cabinet, which has not been authorized or approved by Harbinger. This two (2) year warranty does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, burnt voice-coils, over-powering, negligence, inadequate packing or inadequate shipping procedures.

The sole and exclusive remedy of the foregoing limited warranty shall be limited to the repair or replacement of any defective or non-conforming component. All warranties including, but not limited to, the express warranty and the implied warranties of merchantability and fitness for a particular purpose are limited to the two (2) year warranty period. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. There are no express warranties beyond those stated here. In the event that applicable law does not allow the limitation of the duration of the implied warranties to the warranty period, then the duration of the implied warranties shall be limited to as long as is provided by applicable law. No warranties apply after that period.

Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss or any other incidental or consequential damages including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming, or reproducing any program or data stored in equipment that is used with Harbinger products. This guarantee gives you specific legal rights; you may have other legal rights, which vary from state to state.

Harbinger
P.O. Box 5111, Thousand Oaks, CA 91359-5111

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OR VISIT OUR WEBSITE AT: **HARBINGERPROAUDIO.COM**

