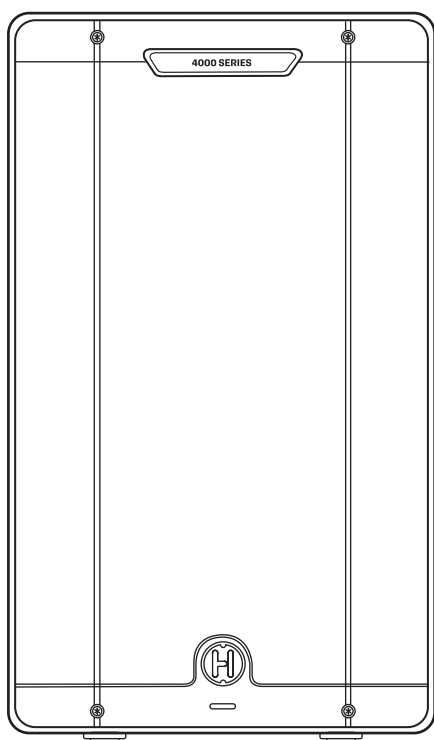


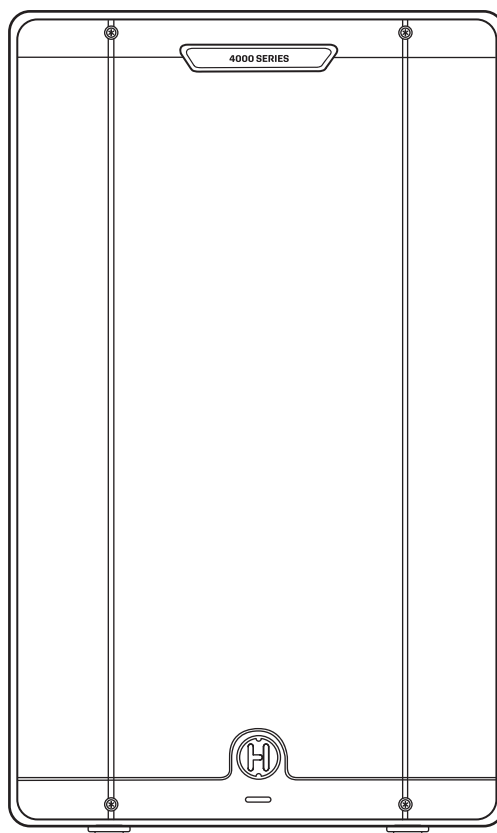


HARBINGER

V4400 SERIES OWNER'S MANUAL



V4412



V4415

VARI

S E R I E S



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WELCOME

These advanced powered speakers feature 130dB of max volume and PEEK Performance audio components to deliver high volume, high-fidelity sound, combined with extensive digital mixing, effects processing, sound customization and app control capabilities.

V4412 12" 2-way Powered Speaker

- 12-inch XR low-frequency driver, plus high-precision PEEK 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, 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 and optional subwoofer from a master unit
- Versatile cabinet allowing free-standing, pole-mounted and lay-flat floor monitor placement
- Mix/Sub Out jack provides audio for other monitoring systems or separate subwoofer

V4415 15" 2-way Powered Speaker

- All the same DSP, input, output, control and usage capabilities as the 4412
- A larger 15" low frequency driver, delivering additional volume

Also Available: VS18 18" Powered Subwoofer With Easy-Roll Casters

- Add a VS18 to bring high-impact low end to your VARI 4400 powered speaker setup
- DSP provides a transparent and dynamic limiter and high-precision crossover for extremely accurate, high-fidelity sound
- Includes adjustable crossover for optimal pairing with any powered speakers, and problem-solving Time Aligning Delay

PEEK PERFORMANCE

VARI 4400 powered speakers feature big upgrades to the three most critical sonic-delivery components:

1. PEEK (polyetheretherketone) compression driver (tweeter) for smooth yet detailed high frequencies
2. Gas-assist cabinet for well-balanced and articulate midrange frequencies with an expansive stereo image
3. XR low-frequency driver (woofer) for well-controlled, extended low frequencies

VARI SERIES APP

VARI V4412 and V4415 can be controlled and customized by the VARI Series app. Learn more at harbingerproaudio.com/vari-apps

- You'll be able to control all DSP functions of the VARI 4400, and customize any of the Voicings
- You can temporarily tune the sound of VARI V4412 or V4415 for a gig or venue, or permanently replace any of the factory standard Voicings and Presets with your own custom sound
- You'll have full control of the mix and effects, as well as routing and output settings, from the app
- When used with Smart Stereo, you can control the sound of your entire stereo speaker rig, including subwoofer management from the app



VARI APP INSTALLATION:

1. Access and download the latest VARI Series app onto your mobile device using the QR code here or via the links found at harbingerproaudio.com/vari-apps
2. App control must be enabled on your VARI speaker to control your speaker's settings. Please see Page 12 in this manual for instructions on how to enable app control and connect to your speaker

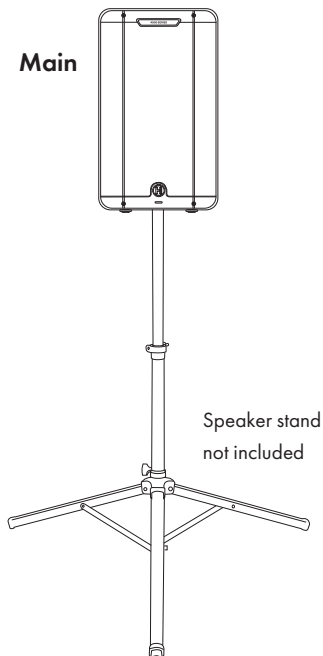
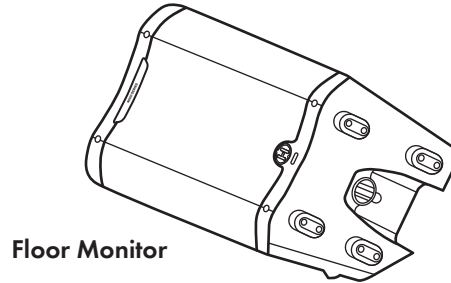
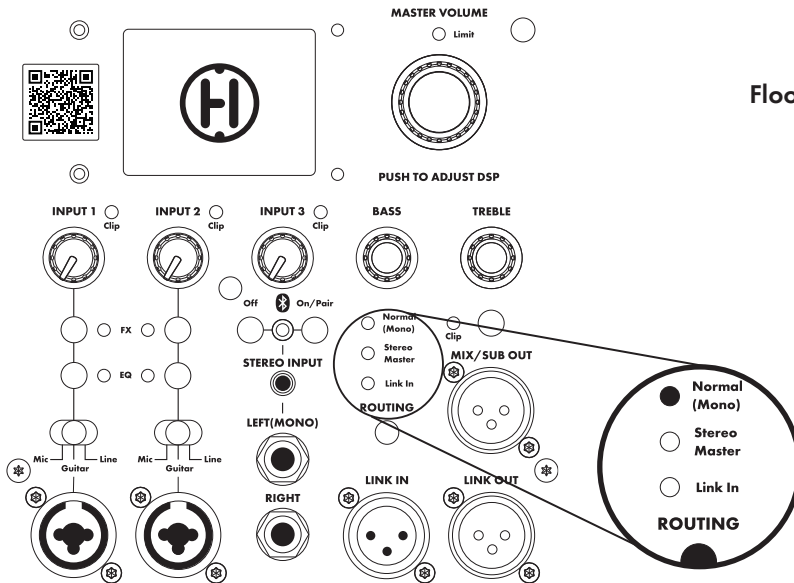
QUICK START GUIDE: SINGLE V4412/V4415

SET UP

- 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

MAKE 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)



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 other instruments with pickups
- Line for mixers, keyboards and other electronics, such as guitar multi-FX

POWER UP AND SET LEVELS

- 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 V4412 or V4415 and select it

FOR FLOOR MONITOR USE

- Set Voicing to Floor Monitor (see page 11 for details)

BLUETOOTH TROUBLESHOOTING

These steps should resolve any Bluetooth audio trouble you may encounter:

FOR APPLE iOS DEVICE

1. Power off the V4412 or V4415, and leave it off.
2. On your Apple iOS device:
 - Open Settings app, select Bluetooth
 - If V4412 or V4415 is listed under MY DEVICES, touch info button, tap "Forget This Device"
 - Turn off Bluetooth, wait 10 seconds, turn on Bluetooth
3. Then, power on your V4412 or V4415, and press On/Pair button so Bluetooth LED flashes.
4. You should now be able to connect to V4412 or V4415 via Bluetooth.

FOR ANDROID DEVICE

1. Power off the V4412 or V4415, and leave it off.
2. On your Android device:
 - Open Settings, select Bluetooth
 - If V4412 or V4415 is listed under Paired Devices, touch gear icon, and tap "Unpair"
 - Turn off Bluetooth, wait 10 seconds, turn on Bluetooth
3. Then, power on your V4412 or V4415, and touch On/Pair button so Bluetooth LED flashes.
4. You should now be able to connect to V4412 or V4415 via Bluetooth.

SMART STEREO WITH PAIR OF V4412/V4415 SPEAKERS

A pair of VARI V4412 or V4415 speakers can operate together as a Smart Stereo system, giving you control of the sound and volume of both speakers from the first master speaker, and optimally distributing all audio inputs to both speakers for rich stereo sound.

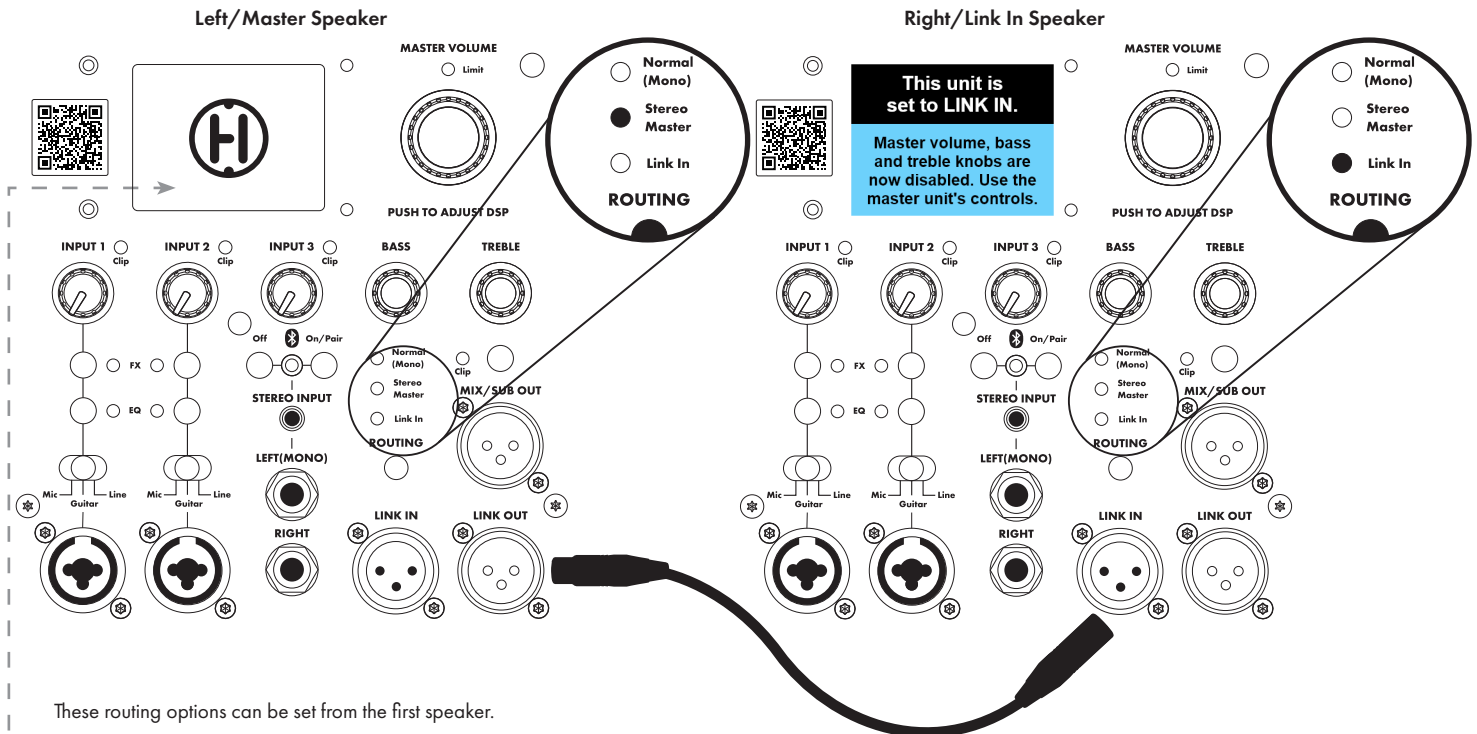
INPUT 1 and 2 are routed mono to both VARIs, while all Channel 3 inputs are routed in split stereo to the VARIs.

WHEN USING SMART STEREO, DO NOT FOLLOW REAR PANEL INSTRUCTIONS FOR BLUETOOTH-ONLY PAIRING. Bluetooth will already be stereo, thanks to Smart Stereo.

- 1 Connect all inputs and make all sound settings on the first (left) unit only.

The second (right) unit's inputs and controls are all disabled when it is set to Link In.

- 2 Set the ROUTING on first unit to STEREO MASTER.
- 3 Set the ROUTING on second unit to LINK IN.
- 4 Connect an XLR (microphone) cable from the first unit's LINK OUT jack to the second unit's LINK IN.

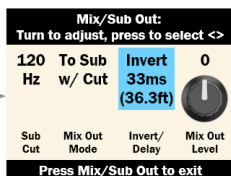


These routing options can be set from the first speaker.



"Stereo Master" determines left/right audio allocation between the two speakers (see page 13 for details)

- Left: First speaker outputs left audio, second speaker outputs right
- Right: First speaker outputs right audio, second speaker outputs left



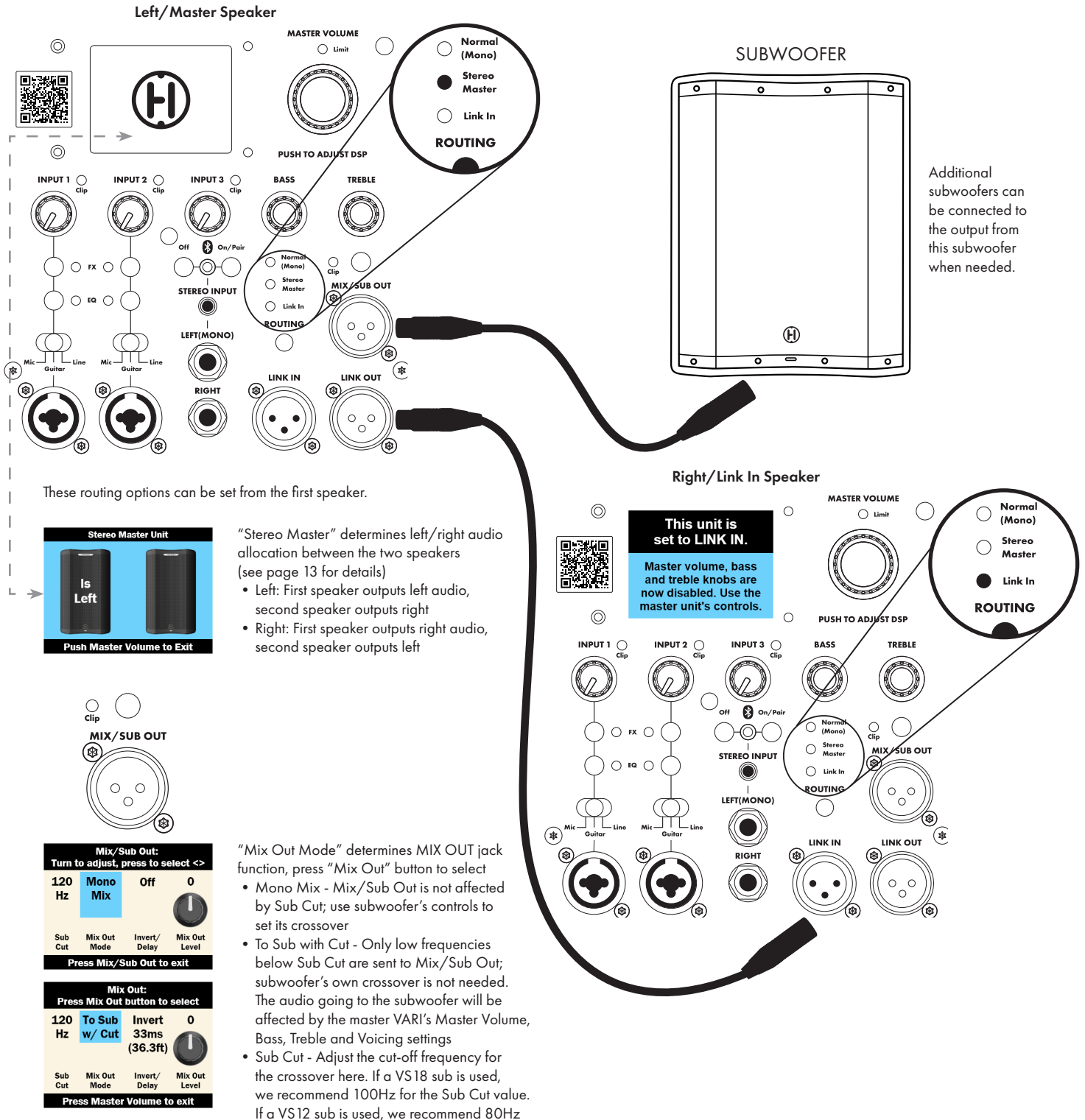
"Mix Out Mode" determines MIX OUT jack function; press "Mix Out" button to select

- Mono Mix - For mono output to feed another sound system or monitor
- To Sub with Cut - To feed a subwoofer, with VARI creating a crossover between itself and the subwoofer, for ideal sound (See page 6)
- Alt Link - For running multiple pairs of VARIs (See page 7)



(See Page 9 for more details on Mix/Sub Out settings)

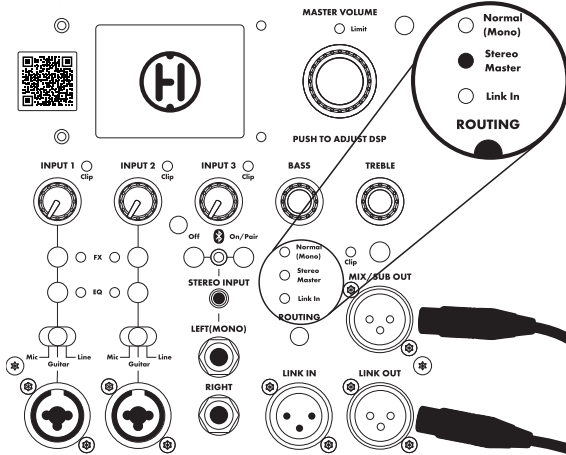
SMART STEREO WITH SUBWOOFER



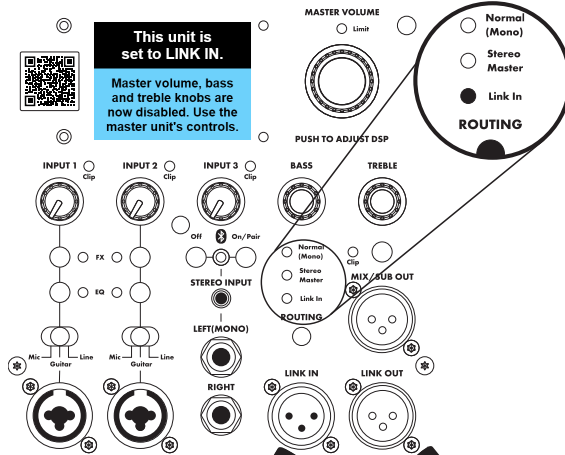
(See Page 9 for more details on Mix/Sub Out settings)

SMART STEREO WITH MULTIPLE V4412/V4415 PAIRS

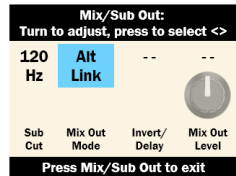
Left/Master Speaker 1



Right/Link In Speaker 1



IMPORTANT: Set master speaker above to Alt Link.



Mix/Sub Out will now output audio that is appropriate for the VARI that is shown below.

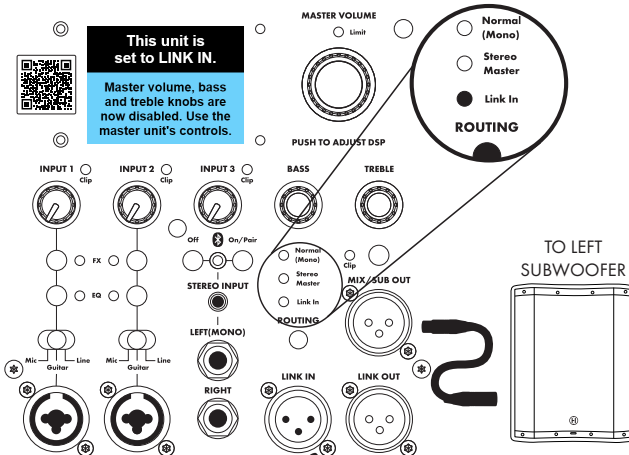
These routing options can also be set from the first speaker.



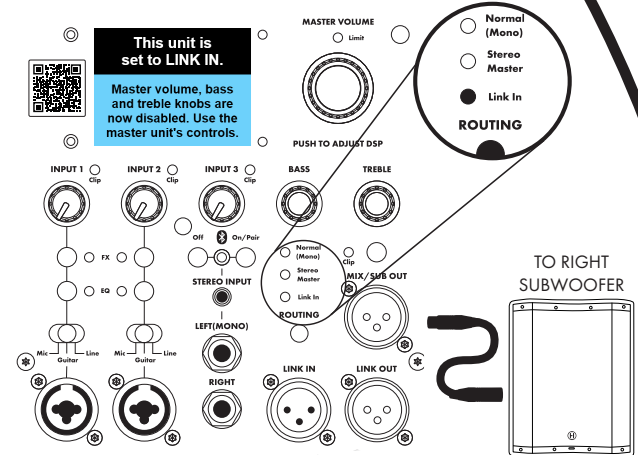
"Stereo Master" determines left/right audio allocation between the two speakers (see page 13 for details)

- Left: First speaker outputs left audio, second speaker outputs right
- Right: First speaker outputs right audio, second speaker outputs left

Left Speaker 2



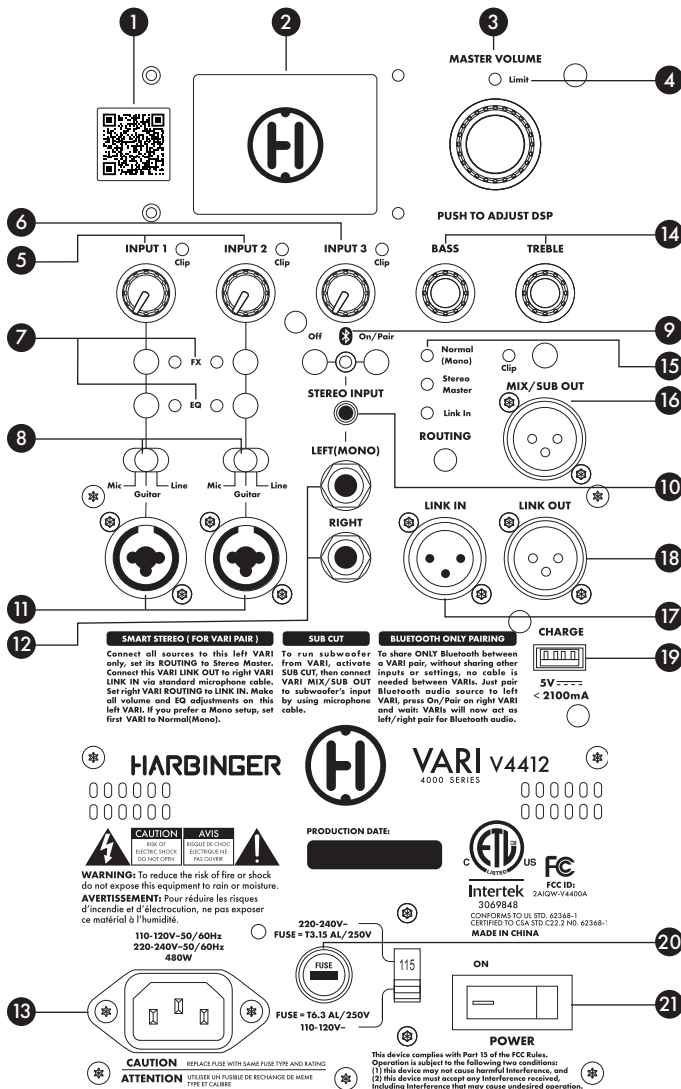
Right/Link In Speaker 2



TO RIGHT SUBWOOFER

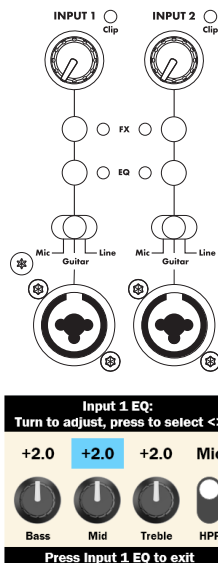
Use controls on the subwoofers to set their crossovers, invert their signals or make other adjustments as needed. The audio going to the subwoofers will be affected by the master VARI's Master Volume, Bass, Treble and Voicing settings.

V4412/V4415 BACK PANEL



EQ, FX & MIX/SUB OUT

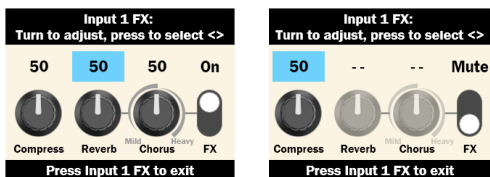
EQ



Input 1 & 2 have EQ for tuning the input sound

- The EQ LED for an input will be lit if any EQ value for that input is not set to 0/Off
- Press an EQ button to show and dismiss the display page for that input's EQ
- While this page is shown, Bass and Treble hardware knobs adjust the displayed input's EQ
- Turn Master Volume to adjust the value that is highlighted in blue
- Press Master Volume to select a different value to adjust
- Setting the input source selector switch to Mic or Guitar will automatically turn on the EQ LED and engage a HPF (high-pass filter), which has been preset to optimize the Mic/Guitar input and avoid muddy sound
- You can then select and adjust HPF if desired

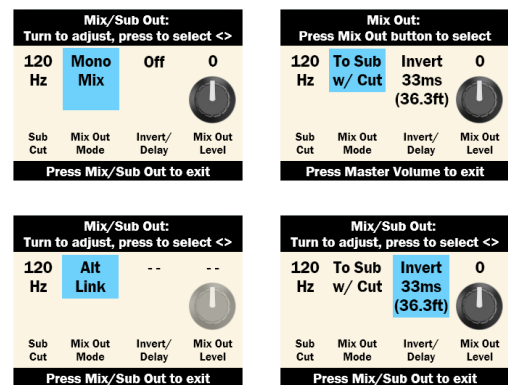
FX



Input 1 & 2 have FX for polishing the input sound

- The FX LED for an input will be lit if any FX value for that input is not set to 0
- Press an FX button to show and dismiss the display page for that input's FX
- Turn Master Volume to adjust the value that is highlighted in blue
- Press Master Volume to select a different value to adjust
- FX Mute disables Reverb and Chorus for this input, which will dim without affecting Chorus
- See page 12 for additional Reverb customization options

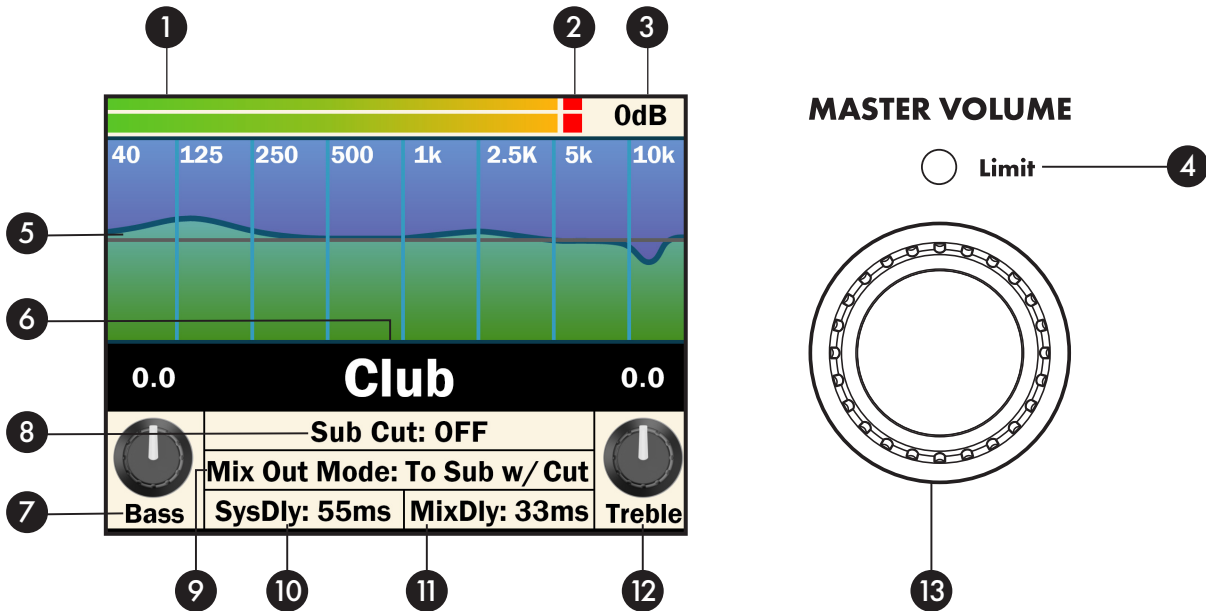
MIX/SUB OUT



Press the button above the Mix/Sub Out jack to show or dismiss the display page of output options

- Sub Cut: Removes frequencies lower than the selected frequency from the audio sent to the VARI's own amplifier and speakers, using a 4th-order Butterworth low-cut-type filter. This is typically done when using VARI with a subwoofer, to let VARI focus its energy on the upper frequencies, while the sub handles the lows.
- Mix Out Mode: Chooses what audio to send from the MIX/SUB OUT jack
 - Mono Mix: Intended to feed audio to another sound system, or monitor speaker
 - Sub With Cut: To feed a subwoofer, the output has only low frequencies below the Sub Cut frequency
 - Alt Link: Page 7 shows how to use this mode to link multiple pairs of VARIs
- Invert/Delay: Several options are available
 - Off: Mix/Sub Out is not inverted or delayed
 - Invert: Mix/Sub Out is inverted (reversed or flipped phase or polarity)
 - Any delay applied is in addition to System Delay (see page 13).
 - 1-30ms: Delays the Mix/Sub Out. This delay allows the same capability as the Time Aligning Delay on the Harbinger VS12 and VS18 subwoofer. When feeding a subwoofer, send audio with strong low frequencies to the subwoofer, and adjust this delay until low frequencies are loudest and strongest. Delay can also be used to compensate for distance between speakers in complex, multi-speaker setups, so the display shows the approximate number of feet that sound travels in the selected time
 - 1-30ms Invert: delays and inverts the Mix/Sub Out
- Mix Out Level: Controls the output level, which is valuable for adjusting the level sent to a subwoofer, monitor speaker or other sound system
- Clip LED: If the Clip LED near the Mix/Sub Out jack is lit, turn down the Mix Out level to avoid distorted sound

DSP DISPLAY FEATURES: HOME PAGE



- 1 VOLUME METER**
Displays the current audio output level.
- 2 CLIP INDICATORS**
Red indicates clipping: turn down Master Volume.
- 3 MASTER VOLUME VALUE**
Shows current Master Volume value, as set by Master Volume knob.
- 4 LIMIT LED**
If Limit LED is lit, turn down Master Volume to avoid distorted audio.
- 5 EQ CURVE**
Response resulting from current settings of:
 - Voicing
 - Bass
 - Treble
 - Sub Cut

As you make a change to any of these settings, the curve will show the effect on frequency response.

The curve is flat when all these factory standard initial settings are in use:

 - Bass: 0dB
 - Treble: 0dB
 - Voicing: Standard
 - Sub Cut: Off
- 6 VOICING**
Name of currently active Voicing is shown.
 - Standard is the normal tuning of the VARI (see page 11 for more details).
- 7 BASS**
Knob graphic and number indicate current BASS knob setting.
- 8 SUB CUT**
Current setting of Sub Cut filter (see page 9 for details).
- 9 MIX OUT MODE**
Current setting of Mix Out Mode (see page 9 for details).
- 10 SYS DLY**
Current setting of System Delay (see page 13 for details).
- 11 MIX DLY**
Current setting of Mix Delay (see page 10 for details).
- 12 TREBLE**
Knob graphic and number indicate current TREBLE knob setting.
- 13 MASTER VOLUME KNOB**
 - Turn this knob to set volume from the speaker
 - Press knob to access DSP parameters on the display
 - Follow instructions on display to adjust DSP (see page 11 – 14)

MAIN MENU

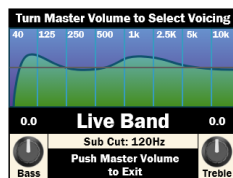
These Main Menu pages are available:

Main Menu (1 of 3)	Main Menu (2 of 3)	Main Menu (3 of 3)
< Home	Reverb	LED: Power + Limiter + Clip
Voicing: Live Band	System Delay	LCD Sleep: Never
App Control: Enabled	Stereo Master: Is Left	Exit: Go To Home Page
Input Levels	Save Preset	Reset
Input Pan/Balance	Load Preset	Info
v	v	< Home
Turn to Choose, Push to Enter	Turn to Choose, Push to Enter	Turn to Choose, Push to Enter

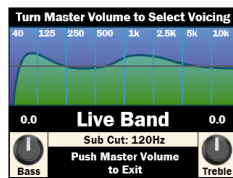
While Home is highlighted, as in left and right images above, you can press the MASTER VOLUME knob to return to the Home Page.

Or turn the MASTER VOLUME knob to highlight a function, then press the Master Volume knob to show the control page for the highlighted function.

For example, here is the Select Voicing page:



On this page, the MASTER VOLUME knob selects the Voicing.

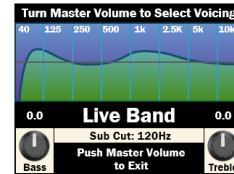


Most function pages allow you to push the MASTER VOLUME knob to exit the page, as the bottom of this page indicates.



VOICINGS

Voicings tune your VARI for common uses. As you select a voicing on the Select Voicing page, the curve indicates how that voicing effects the VARI 4400 frequency response.



From the Select Voicing page, turning the MASTER VOLUME knob will select from the 10 voicing memories.

- Turning the Bass and Treble will show you their effect on the frequency response of the voicing
- Turning the MASTER VOLUME knob will load a different voicing, and reset Bass and Treble to 0
- Pressing the MASTER VOLUME knob will exit this page

The 10 voicings provided from the factory are as follows:

- **Standard:** The default tuning of your VARI, designed to provide a highly accurate full frequency, extended bass response for general use, with no additional frequency contouring
- **Club:** Increased low frequencies and reduced highs intended for high-volume electronic dance music
- **Live Band:** Reduced low frequencies tamed ultra-high frequencies intended for main speakers for a band performing to a large audience at high volume
- **Speech:** Reduced low frequencies and emphasized frequencies in the vocal range, intended for maximum intelligibility of amplified speech with reduced tendency for feedback and rumble
- **AcoGtr&Vox:** Reduced low frequencies and focused mid frequencies, which can enhance acoustic guitars and vocals, and reduce potential for feedback and rumble, when amplifying acoustic guitar and vocals together at high volume
- **FloorMontr:** Reduced low frequencies to reduce feedback and rumble when the VARI is laid down on its side and used as a "wedge" floor monitor
- **User 1–4:** Each of these four memory locations initially provide the same unaltered settings as the Standard tuning, but you can overwrite them with your own customized tunings using the VARI Series App

You can customize any voicing (including the six factory standard voicings) from the free, downloadable VARI Series App, available from Apple's iOS App Store and the Google Play Store.

- Using the app, you can adjust all the bands of EQ that define a voicing and overwrite any voicings in the VARI's memory with your personalized settings
- You can then access any of those voicings directly from the VARI's own display at any time

(See page 3 for app download and installation information)

APP CONTROL ENABLE/DISABLE

From the Enable App Control page, you can enable VARI control for the VARI Series App.

Enable App Control
App Control: Enabled
Enter code 0000 in app to connect
Push Master Volume to Exit

- Turning the Master Volume knob will enable or disable app control
- Pressing the Master Volume DSP knob will exit this page

When app control is enabled, the display will show a four-digit code, as 0000 is shown above. This code is set to 0000 as a factory default passcode, but can be customized via the app, to prevent others from being able to control this VARI without the correct app code

INPUT LEVELS

From the Input Levels page, you can adjust or reset the input levels.

- The rear panel knobs set the analog gain for each input, you should make your initial level settings with those knobs
- The values on this display adjust the digital levels; they are the same values adjusted by the app's MIXER level sliders
- This page will initially have the Input 1 label and (push to adjust) highlighted in blue, as shown here below

Input Pan/Balance
Input 1 (push to adjust) C
Input 2 C
Input 3 C
Reset
Exit

- Push Master Volume and the page will now show (turn to adjust) the current value highlighted in blue, as shown below

Input Levels
Input 1 (turn to adjust) -60
Input 2 +10
Input 3 +10
Reset
Exit

- Now turning Master Volume will adjust the value highlighted in blue
- 0 is the normal value (no boost or reduction of digital level)
- Push Master Volume to stop adjusting that value, and the display will again show Input 1 (push to adjust)

Input Levels
Input 1 (push to adjust) -60
Input 2 +10
Input 3 +10
Reset
Exit

- You can then turn MASTER VOLUME knob to select a different input, or select Reset or Exit
- Reset will reset all inputs to 0 (no boost or reduction of digital level)

INPUT PAN/BALANCE

Input Pan/Balance
Input 1 (push to adjust) C
Input 2 C
Input 3 C
Reset
Exit

From the Input Pan/Balance page, you can adjust or reset the stereo placement of the inputs

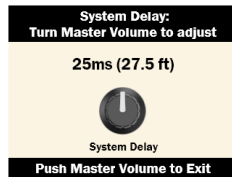
- The MASTER VOLUME knob operates as described for the previous INPUT LEVELS section
- The values on this display are the same values adjusted by the app's MIXER knobs for pan and balance
- When a pair of VARI V4400 units is operated in Smart Stereo routing, these values will determine whether each input is routed in the center (C), or more to the left (L) or right (R)

REVERB

Reverb
Time (push to adjust) Med 2
Highs Norm
Lows Boost
Reset
Exit

- The MASTER VOLUME knob operates as described for the previous INPUT LEVELS section
- The display image here shows the factory standard values for the reverb

SYSTEM DELAY



From the System Delay page, you can delay the signal sent to the amplifier and all outputs

- Turn the MASTER VOLUME knob to set the delay time from 0–50ms
- 0 (no delay) is the factory standard value
- Delay can be used to compensate for distance between speakers in complex, multi-speaker setups, so the display also shows the approximate number of feet that sound travels in the selected time

STEREO MASTER

From the Stereo Master page, choose whether this speaker will act as a left or right speaker if operating as Stereo Master.



- Turning the MASTER VOLUME knob will determine how audio will be routed for Smart Stereo operation
- Pressing the MASTER VOLUME knob will exit this page and return to the Home Page

This setting only applies when Stereo Master ROUTING LED is lit.

- **Left:** When this VARI's Stereo Master LED is lit, it will amplify the left audio via its own power amp and speakers, and send right audio to the LINK OUT jack so a linked speaker will amplify right audio
- **Right:** When this VARI's Stereo Master LED is lit, it will amplify the right audio via its own power amp and speakers, and send left audio to the LINK OUT jack so a linked speaker will amplify left audio

SAVE PRESET

From the Save Preset page, you can save the current VARI settings to one of the 6 preset memories in the VARI.



- Turning the MASTER VOLUME knob will choose from the available preset memories
- Pressing the MASTER VOLUME knob will select that preset memory
- Completing the save will overwrite (replace) that preset memory, with the current settings for:
 - Voicing Selection
 - Input Levels
 - Input Pan/Balance
 - Reverb
 - Amp Delay
 - Stereo Master (Left or Right)
 - Mix/Sub Out Settings
 - LCD Dim (Never or 30 Seconds)
 - Front LED (Power+Limit+Clip, Power+Limit, Power or Off)
 - EQ
 - FX
 - BASS knob setting
 - TREBLE knob setting
 - Bluetooth Audio On/Off

LOAD PRESET

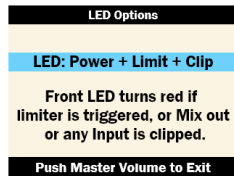
From the Load Preset page, you can load one of the six presets stored in the VARI.



- Turning the MASTER VOLUME knob will choose from the available preset memories
- Pressing the MASTER VOLUME knob will load the same settings that are listed above for Save Preset

LED OPTIONS

From the LED Options page, you can configure VARI's front panel LED.



- Turning the MASTER VOLUME knob will choose from the available options
- Pressing the MASTER VOLUME knob will exit this page

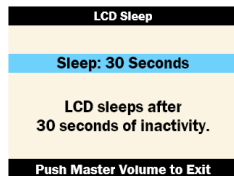
These options are available:

- **Off:** LED will not light
- **Power Only:** LED will light white when power is on
- **Power+Limit:** LED will light red when the limiter is triggered, and otherwise will be lit white when the power is on
- **Power+Limit-Clip:** LED will light red when the limiter is triggered or any clip LED is on, and otherwise will be lit white when the power is on

The front LED will also light blue during app control.

LCD SLEEP

From the LCD Sleep page, you can access the sleep option for VARI's rear panel display.

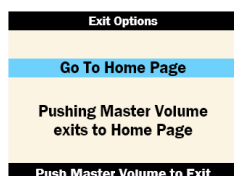


- Turning the MASTER VOLUME knob will choose from the available options
- Pressing the MASTER VOLUME DSP knob will exit this page

These options are available:

- **Never:** The display will be lit whenever the VARI is on
- **30 Seconds:** The display will turn off after 30 seconds of inactivity. Press or turn the MASTER VOLUME, BASS or TREBLE knobs to light the display for 30 seconds

EXIT: GO TO HOME PAGE OR MAIN MENU

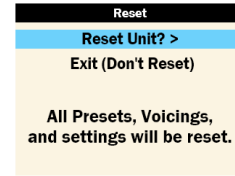


From the Exit Options page, you can determine what will be shown after pushing Master Volume to exit a page

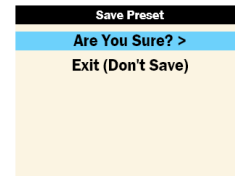
- Go To Home Page is the factory standard value, exiting returns to the Home Page
- Go To Main Menu can be selected if you prefer to exit to the Main Menu

RESET

From the Reset page, you can restore your VARI to its factory standard state.



- Press the MASTER VOLUME knob while "Reset Unit" is selected, to begin the reset



- Then press the MASTER VOLUME knob again while the "Are You Sure?" message is shown to complete the reset

INFO

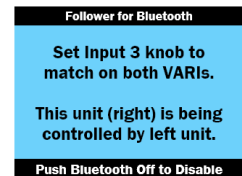
The Info page shows the versions of Firmware and Flash data.

WIRELESS STEREO BLUETOOTH TO A PAIR OF VARI 4400 SPEAKERS

- This mode shares only Bluetooth audio between two VARIs, no other input audio is shared (use Smart Stereo to share all inputs, see page 5-7)
- Turn the physical Input 3 knob to the same position on a pair of VARIs (this will ensure equal volume from both speakers)
- Press the On/Pair button of the left VARI so its Bluetooth LED flashes, and pair your Bluetooth audio device to that VARI
- Then press the On/Pair button of the right VARI so its Bluetooth LED flashes, and wait for the Bluetooth LEDs on both VARIs to turn green
- The left speaker now controls volume and sound for both VARIs, you can press its Master Volume knob to dismiss the message shown on the left below
- Press Off on either VARI to stop this wireless stereo Bluetooth mode



Left VARI shows this message



Right VARI shows this message

SPECIFICATIONS

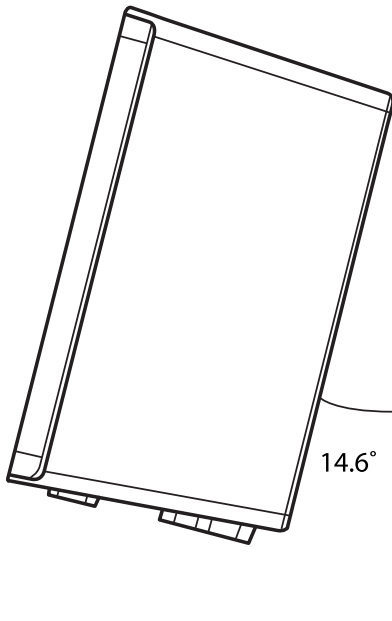
HARBINGER VARI Series		V4412	V4415
Amplifier	DSP	Display-accessible parameters and BASS and TREBLE knobs all control the internal DSP to customize the sound	Display-accessible parameters and BASS and TREBLE knobs all control the internal DSP to customize the sound
	Limiter	Transparent, dynamic DSP limiter for ideal sound quality and system protection at maximum volume	Transparent, dynamic DSP limiter for ideal sound quality and system protection at maximum volume
	Smart Stereo	A pair of speakers can be connected for unified volume and tone control from the first master speaker, with optimal distribution of mono and stereo audio signals between both speakers, and optional sub integration	A pair of speakers can be connected for unified volume and tone control from the first master speaker, with optimal distribution of mono and stereo audio signals between both speakers, and optional sub integration
	Input 1	XLR and 1/4" TRS balanced/unbalanced compatible audio input with Mic/Guitar/Line Switch and Input Gain Control	XLR and 1/4" TRS balanced/unbalanced compatible audio input with Mic/Guitar/Line Switch and Input Gain Control
	Input 2	XLR and 1/4" TRS balanced/unbalanced compatible audio input with Mic/Guitar/Line Switch and Input Gain Control	TXLR and 1/4" TRS balanced/unbalanced compatible audio input with Mic/Guitar/Line Switch and Input Gain Control
	Input 3	Stereo Line: Left/mono and right 1/4" TRS balanced/unbalanced compatible audio line inputs AUX: 1/8" mini TRS unbalanced input (–10dB) Bluetooth Audio: With On/Pair and Off buttons, plus LED	Stereo Line: Left/mono and right 1/4" TRS balanced/unbalanced compatible audio line inputs AUX: 1/8" mini TRS unbalanced input (–10dB) Bluetooth Audio: With On/Pair and Off buttons, plus LED
	Link In	XLR balanced +4dBV audio input	XLR balanced +4dBV audio input
	Out Jack	XLR balanced +4dBV audio output	XLR balanced +4dBV audio output
	Power Output	675W RMS Total 225W RMS @ 8 ohms (high-frequency compression driver) 450W RMS @ 4 ohms (low-frequency woofer) 2,500W Peak	675W RMS Total 225W RMS @ 8 ohms (high-frequency compression driver) 450W RMS @ 4 ohms (low-frequency woofer) 2,500W Peak
	Bass EQ Knob	+/- 15dB Peaking Filter at 65Hz	+/- 15dB Peaking Filter at 65Hz
	Treble EQ Knob	+/- 15dB Shelf at 6.5kHz	+/- 15dB Shelf at 6.5kHz
	Volume	Volume control per channel	Volume control per channel
	Power Input	100–120V, 220–240V, 50–60Hz	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 Charge jack supplies 2.1A@5V for mobile devices	Removable AC Power Cord Front LED, configurable to indicate power or power/limiter, also indicates app connection Color LCD display for DSP control Charge jack supplies 2.1A@5V for mobile devices



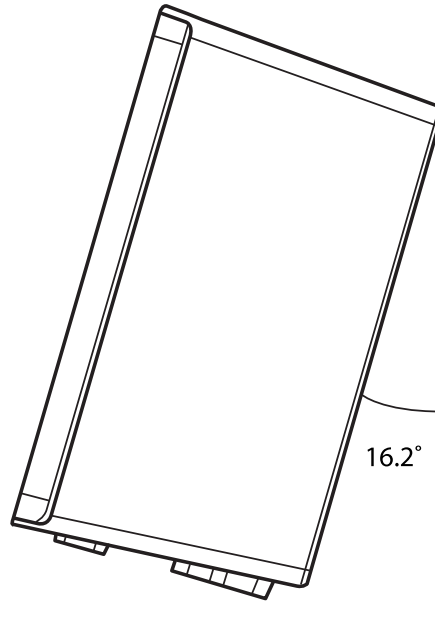
SPECIFICATIONS CONTINUED

HARBINGER VARI Series		V4412	V4415
Speaker	Type	12" 2-way ported design	15" 2-way ported design
	Frequency Response	35Hz–22kHz	35Hz–22kHz
	Max SPL@1M	130dB	131dB
	HF Driver	PEEK (Polyetheretherketone), Compression Driver, 8 ohm	PEEK (Polyetheretherketone), Compression Driver, 8 ohm
	LF Driver	12" Driver, 4 ohm, XR Transducer Technology	15" Driver, 4 ohm, XR Transducer Technology
	Dispersion	Horizontal Dispersion: 85° Vertical Dispersion: 55°	Horizontal Dispersion: 85° Vertical Dispersion: 55°
	Cabinet	Polypropylene, with rubber surfaced handles and feet	Polypropylene, with rubber surfaced handles and feet
	Grille	1.2 mm steel	1.2 mm steel
	Suspension Points	3 x M10 Suspension Points	3 x M10 Suspension Points
	Pole Mount	35 mm stand pole with M6 screw	35 mm stand pole with M6 screw
	Product Dimensions	14.2" x 14.2" x 24.1"	16.5" x 15.0" x 27.1"
Dimensions and Weights	Packaging Size	18.1" x 18.1" x 28.1"	20.1" x 19.5" x 31.1"
	Net Weight	42.1 lb.	47.2 lb.
	Gross Weight	51.8 lb.	60.4 lb.

SUSPENSION



V4412



V4415

VARI V4400 Series speakers include 3 x M10 Suspension Points:

- Two points on the cabinet top allow the speaker to be suspended
- If only these two top suspension points are used, the speakers will hang at the angles shown above
- One point below the rear panel allows the speaker to be pulled backward to adjust the speaker to desired angle
- Only professional installers should suspend a VARI V4400 speaker using professional-grade suspension parts
- Installations should be inspected once a year to ensure that suspension parts are in good condition



IMPORTANT SAFETY INSTRUCTIONS

Please keep this instruction manual for future reference and for the duration of owning the VARI powered loudspeaker. Please carefully read and understand the instructions inside this owner's manual before attempting to operate your new powered loudspeaker.

This instruction manual includes essential safety information regarding the use and maintenance of the amplifier. Take special care to heed all warning symbols and signs inside this manual, and those printed on the back of the amplifier's loudspeaker.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE AMPLIFIER TO WATER/MOISTURE, NOR SHOULD YOU OPERATE THE AMPLIFIER NEAR ANY WATER SOURCE.

The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the user manual accompanying the amplifier.

The lightning flash with an arrow triangular symbol is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.

WARNING

Handle the power supply cord with care.

Do not damage or deform it as it may cause electric shock or malfunction when used. Hold the plug attachment when removing from wall outlet. Do not pull on the power cord.

IMPORTANT SAFETY PRECAUTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all Instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. DO NOT turn on the VARI amplifier module before connecting all other external devices.
8. Do not install near any heat sources, such as radiators, heat registers, stoves or other apparatuses (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachment/accessories specified by the manufacturer.
12. Use only the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

15. **POWER SOURCES:** This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

16. **WALL OR CEILING MOUNTING:** Consult a licensed, certified professional contractor for the physical installation of this speaker.

17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

18. **OBJECT AND LIQUID ENTRY:** Care should be taken so that objects do not fall, and liquids are not spilled into the enclosure through openings.

19. **WATER AND MOISTURE:** This product should be kept away from direct contact with liquids. The 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.

20. Keep the speaker system out of extended or intense direct sunlight.

21. No containers filled with any type of liquid should be placed on or near the speaker system.

22. **SERVICING:** The user should not attempt any service to the speaker and/or amplifier beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

23. **VENTILATION:** Slots and openings in the amplifier are provided for ventilation and to ensure reliable operation of the product, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or rack.

24. **Protective earthing terminal:** The apparatus should be connected to a main socket outlet with a protective earthing connection.



25. **ACCESSORIES:** Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product.

26. When moving or not using the appliance, secure the power cord (e.g., wrap it with a cable tie). Be careful not to damage the power cord. Before using it again, make sure the power cord has not been damaged. If the power cord has been damaged at all, bring the unit and cord to a qualified service technician for repair or replacement as specified by the manufacturer.

27. **LIGHTNING:** For added protection during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.

28. **REPLACEMENT PARTS:** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

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



CAUTION: To reduce the risk of electric shock, do not remove chassis. No user-serviceable parts inside. Refer servicing to qualified service personnel.

AVERTISSEMENT: Pour réduire les risques d'incendie et d'électrocution, ne pas exposer ce matériel à la pluie ou à l'humidité.



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 U.S. 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 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



WARRANTY/CUSTOMER SUPPORT

2-YEAR HARBINGER LIMITED WARRANTY

Harbinger provides, to the original purchaser, a two-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-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-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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2408-23591399



OR VISIT OUR WEBSITE AT: HARBINGERPROAUDIO.COM