VSSL™

A.1

PRODUCT GUIDE

SET YOUR MUSIC FREE™

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WELCOME TO VSSL

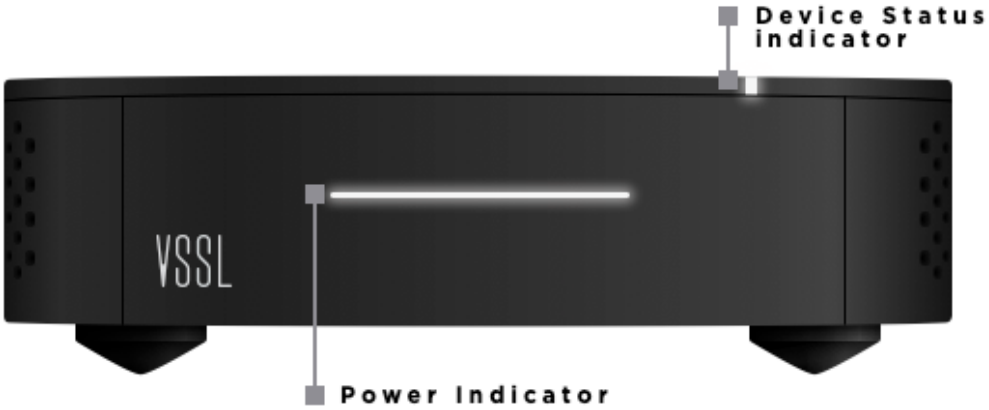
VSSL is the music system you always wanted.

- Out of sight.
- No other apps.
- Just the music you love.
- Controlled by voice.

VSSL strives to deliver you the best music listening experience based on your music ecosystem. By incorporating Apple Airplay2, Google Chromecast, and Spotify Connect, you can choose your favorite music app, device, and ecosystem.

Note: Your favorite music apps are maintained outside of the VSSL system. These apps may be subject to updates or changes and could affect the performance of your music system.

PRODUCT OVERVIEW

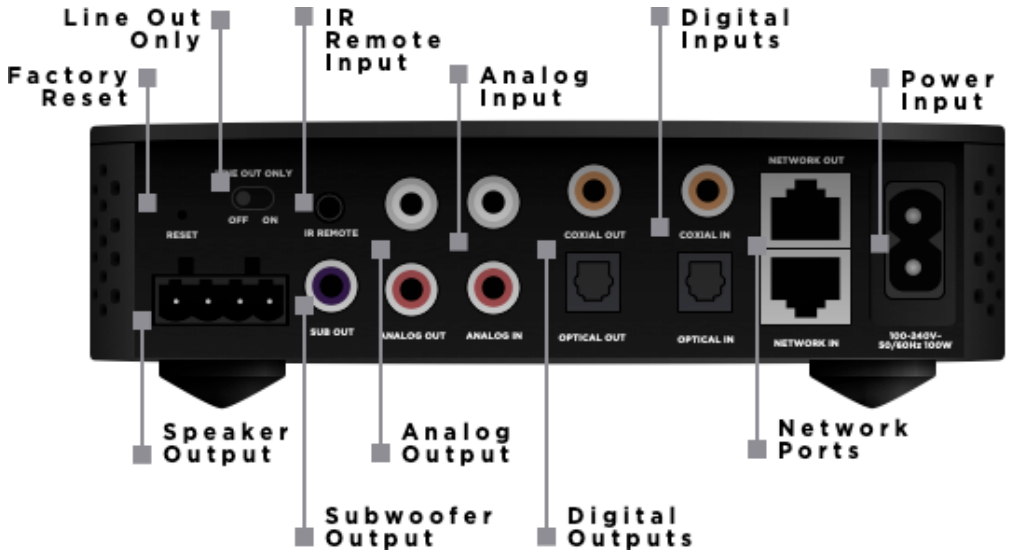


Front

Power Indicator	Indicates the power state of the device. There are 2 power states, on and sleep. *Solid bright* - device is on *Solid dim* - device is in sleep *Pulse* – device is booting up

Device Status Indicator	Indicates the status of the zones. See the Device Status section for more details. *Flashing red* - device is powering up and connecting to network *Solid yellow* - device has no network connection *Solid white* - device is active with audio playing via analog input or streaming *Flashing white* – device is ready and waiting for set up in in Google Home app *Multi Colored* – device is updating *Off* - zone is not active

Rear



Speaker Output	Use the phoenix connector supplied. Output is not bridgeable. The L+, L- are positive and negative outputs for the left channel speaker while the R+, R- are the positive and negative outputs for the right channel speaker.
Subwoofer Output	For connecting a subwoofer. Output can be full range or with a crossover pass only the low frequencies (LFE). The crossover is adjustable from 50-200Hz.
Analog Output	Analog RCA line level output, output can be fixed volume or variable.
Digital Outputs	(1) Digital coax, (1) optical, output can be fixed volume or variable.
Network Ports	(1) 10/100MB network input, (1) 10/100MB network output.

Power Input	100-240VAC 50/60 Hz Use the power cord supplied with the unit. Adapters can be used for international power connections.
Digital Inputs	(1) Digital coax, (1) optical.
Analog Input	Analog RCA input.
IR Remote Input	For remote control of the device. Use the included IR receiver cable. IR commands can be learned for *volume+*, *volume-,* and *mute*.
Line Out Only Switch	Use this switch to disable the speaker output and amplifier on the unit. Used when the unit is the source for another amp.
Factory Reset	Can use a pin to reset the device to its factory settings.

ACCESSORIES

Phoenix Connector	Can accept size 14-20 gauge speaker wire.
IR Receiver Cable	Cable for receiving IR signals from remotes.
Power Cord	Standard 3 prong power adapter for the US.

SPECIFICATIONS

Zones	1
Channels	2
Amplifier	Class D 35 watts/ch RMS @ 8 ohm 50 watts/ch RMS @ 4 ohm
WiFi	2.4/5Ghz, dual antenna MIMO
Inputs	(1) Network, (1) RCA, (1) digital coax, (1) optical, (1) IR
Wireless Inputs	Airplay2/Chromecast built-in/Spotify Connect/Bluetooth
Outputs	(1) RCA line level, (1) optical, (1) digital coax, (1) subwoofer
Sub Out Crossover	Adjustable, 50-200 Hz
EQ	7 band adjustable
S/N Ratio	>98 dB A-weighted
Frequency Response	20 - 20,000 Hz

WIFI	802.11a/b/g/n/ac
Frequency Range	2412MHz~2483MHz or 5180~5725MHz
Transmit Output Power	18dBm
Bluetooth	V4.2 , EDR
Frequency Range	2402~2480MHz
Transmit Output Power	6 dBm
Rack Space	1U
Dimensions No Feet	7 7/16” W x 8 11/16” D x 1 11/16” H
Dimensions With Feet	7 7/16” W x 8 11/16” D x 2” H
Shipping Weight	3.5 lbs

KEY FEATURES

Native Streaming

Native Streaming™ by VSSL, means you get to listen to your music from the music apps you already love. By integrating with Airplay2, Chromecast built-in, Spotify Connect, Bluetooth, and DLNA, you can open and play your music app on any device and play your music on your speakers.

Voice Control

Google Assistant

The VSSL A.1 works seamlessly the Google Assistant. Using Google Assistant on your Android, Google Home speaker, or other certified Google Assistant device you can say things like:

- “Play some music in the master bedroom”

- “Stop the music in the kitchen”

You can even set the default playback from you Google Home speaker to shorten your phrases to:

- “Play music”
- “Turn up the volume”
- “Stop”

Siri

As a certified Airplay2 product, you can use your A.1 with Siri on your iPhone, Mac, or Apple TV. Using Siri, you can say things like:

- “Play ‘I Want It All’ by Queen on all speakers”
- “Play something I like on all speakers”
- “Play some rock on kitchen speaker”
- “Play/pause music”
- “Play the next song”
- “Play the song before this one” etc.
- “Repeat last song/album/playlist”
- “Fast forward 30 seconds”, “Rewind 10 seconds”, etc.

To use Siri with your A.1, you must first add the device to your home in the iOS Apple Home app on iOS. Please follow the recommended procedure from Apple. See the following support article:
https://support.apple.com/en-us/HT208724.

Magnetic Feet For Easy Wall Mounting

The feet included with the A.1 have a magnetic attachment. This allows you to remove the feet to save height in a rack or cabinet installation or for easy mounting using the mounting ports on the bottom of the A.1.

IR Control

The A.1 comes with an IR receiver cable for receiving IR commands from TV remotes, control systems, or other IR emitting devices. You can use the free VSSL app to enable the A.1 to learn the Volume+, Volume-, and Mute functions of your IR emitting device.

This is useful for using the A.1 to power a 2 CH soundbar or other speakers for TV listening.

NETWORK REQUIREMENTS

High-speed data network

VSSL needs to be installed with a high-speed network switch, router, or Wi-Fi/router combo.

High-speed internet connection

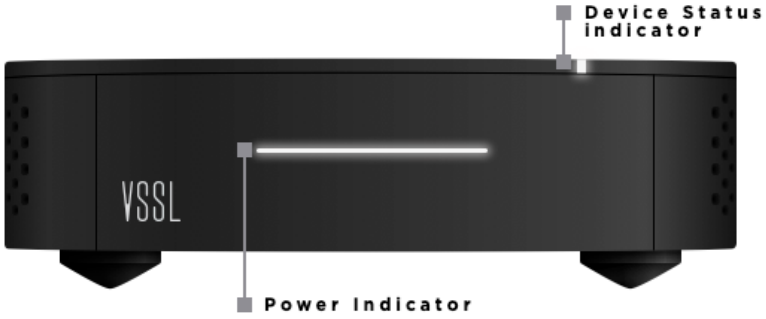
In order to access all of the internet music services and receive automatic updates, you need to have a high-speed internet connection, such as a high-speed DSL/Cable modem, fiber-to-the-home broadband, or a high-speed wireless internet provider.

Wi-Fi / WLAN

For VSSL to work with your wireless phone, tablet, laptop or computer, you must have a wireless router or wireless access point installed. To ensure proper function, you should ensure that a strong wireless signal from your network is present to all the areas/zones you want to use VSSL.

DEVICE STATUS

There are several ways to determine the status of your device. The VSSL app can be referenced to see the real time status of your A.1 system. There are also several indicators on the A.1 that will display the status of the system. See the Quick Reference section below.



Boot Up Sequence

1. During boot up, the power LED will pulse white.
2. As the device initializes, the zone indicator will flash pink.
3. After initialization, the zone indicator will flash red and will continue to flash red while the streaming services for each zone are started.
4. The zone indicator will briefly show white to indicate the zone is ready and connected to the network.
5. If the A.1 has not been set up in the Google Home app, then the zone indicator will flash white until this is completed.
6. Once setup in the Google Home app is complete, the device status indicator will turn off until streaming or audio is started on the A.1..
7. If there is an error, the device status indicator will display solid red.
8. If no network is connected, the device status indicator will show solid yellow.
9. If a system update is available the device will enter update mode. See the ‘System Updates’ section for more details on updates.

Power Modes

The A.1 is equipped with the HiNA functionality of a network switch. The A.1 device is a networking device with high network availability and provides network switching when operational.

Auto

The only power mode on the A.1 is auto. This auto mode allows the device to enter network standby mode after 10 minutes of no music output. To wake the device from network standby mode, the user can start a music stream to the device.

Software Updates

During system updates the zone indicator will flash a multicolor pattern. See the 'System Updates' section for more details on updates.

LED Status Quick Reference

Device Status Indicator:

Blinking red	The device is booting up.
Solid yellow	The device has lost connection to the network, check the ethernet cable or networking device. See the troubleshooting section of this guide.
Solid red	The zone has a connection error, see troubleshooting section of this guide.
Solid white	The zone is active.
Blinking white	The device is ready and waiting for set up in in Google Home app.
Flashing multicolor	The device is in FW update mode.

Power Indicator:

Solid bright	The device is on and ready.
Solid dim	The device is in a low power sleep mode, to wake the device start a music stream, or turn on an analog source.
Pulsing	The device is in a boot up sequence.

INSTALLATION

Tabletop Installation

For cabinet or countertop installation, ensure the location has adequate ventilation and at least 0.5” of headroom above the device. If you are going to stack multiple A.1 devices on top of each other, you must use the magnetic feet attached to the bottom.

Rack Installation

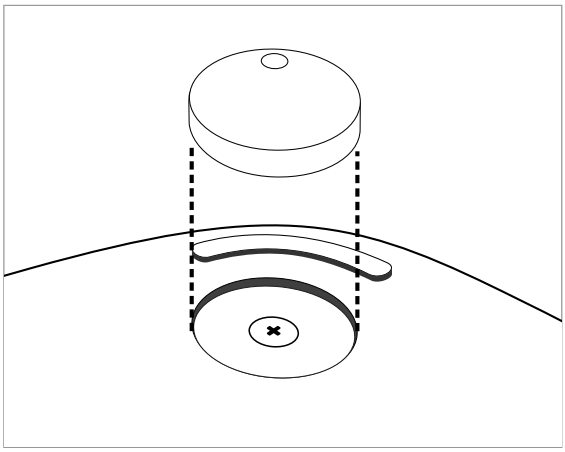
For rack installations, you can use a standard 1U rack shelf to install 2 A.1 units side by side. It is recommended to have at least 0.5” of head room above the A.1. If you are going to stack multiple A.1 devices on top of each other, you must use the magnetic feet attached to the bottom.

Wall Mounting

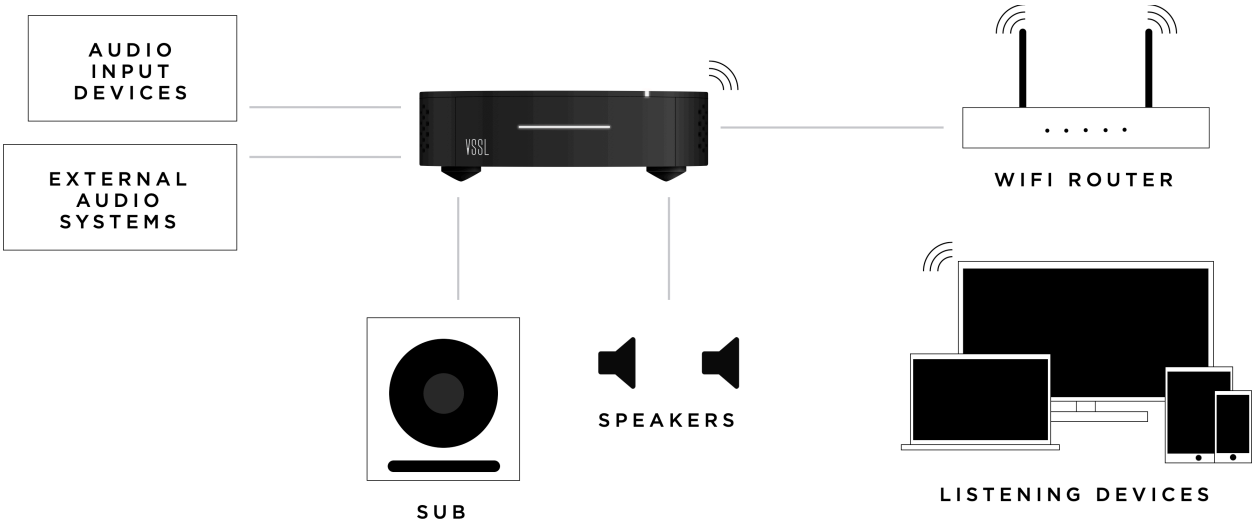
The A.1 comes with wall mounting ports built in. The mounting ports are designed to fit a standard #8 or #6 drywall screw. You can use other screws of similar size appropriate for the wall material you’re mounting to. Use the template on the back of the quick install guide, included in the box, to locate where the position for the screws.

Installing the Feet

The A.1 ships with magnetic feet installed. The magnetic attachment areas on the bottom of the A.1 are located in the 4 corners. They can be identified by the circular indents with a screw at the center of the circle.



Connecting



1. Terminate your speaker wire in the included phoenix connector. Make sure to connect the negative and positive cables to the proper left and right channels as marked on the phoenix connector.

2. Connect the phoenix connector, auxiliary audio sources, and external audio subsystems.

3. If connecting to the network using an ethernet cable, connect the network source into the port labeled Network In.

4. Once all the connections are made, insert the power cable.

5. See the Device Status section of this guide for details about the boot up sequence.

Connect to Internet

The A. 1 can be connected to your local network via ethernet or Wi-Fi. If you want to connect your A.1 with Wi-Fi, then you will use the Google Home app to configure the Wi-Fi settings.

Configuration

Use the VSSL app to adjust all settings for the VSSL system. Using the VSSL app you can name zones, set inputs, activate IR learning, and configure zone output settings like EQ, max volume, input priority, and mono/stereo output.

Google Play Store: https://play.google.com/store/apps/details?id=com.vssl
Apple App Store: https://itunes.apple.com/us/app/vssl/id1209104434

Connecting to External System

External Audio System (Output)

You can connect your A.1 to an external amplifier system, for example a home theater receiver, a high-powered amplifier, or an outdoor audio system. The A.1 is capable of acting as the source in these systems.

1. Connect the external amplifier to the analog, optical, or digital coax output.

2. The output by default is variable, which allows you to control the volume of the external system from your phone or other streaming device. You can set the output to be fixed using the VSSL app.
3. If the A.1 will act only as a source, then you can enable line out only mode by setting the switch labeled Line Out Only to the on position.

External Audio Source (Input)

You can connect the audio output of any device with an analog, optical or digital coax input. Wire the output of any RCA analog source, like a satellite television box, to any of the local inputs.

1. Connect the external audio source to the analog, optical, or digital input.
2. If the external audio source has an IR remote, you can also attach the included IR receiver cable and learn the volume commands from the IR remote.

Connecting a Subwoofer

A subwoofer is a great way to add more bass to your VSSL system. To connect a subwoofer, use the sub out RCA connector and adjust the crossover settings in the VSSL app.

Learning IR Commands

1. Connect the included IR receiver cable to the IR Remote port on the back of the A.1.
2. In the VSSL app settings, follow the prompts on the screen to learn the IR codes. The device status indicator will blink purple when it receives a learned command.

PLAYING MUSIC

Listening to music with VSSL is easy. Use your favorite music app and connect to VSSL using AirPlay2, Chromecast built-in, or Spotify Connect.

AirPlay®

iOS® Device

1. Connect your iOS device to the same Wi-Fi network as the VSSL A.1.

2. On your iOS device swipe up from the bottom of your screen to open Control Center.
3. In Control Center, swipe horizontally to find the Now Playing screen.
4. Tap to open a list of available AirPlay devices.
5. Select the device, in this case the A.1, you wish play to.

macOS™/OS X® Device

1. Connect your computer to the same Wi-Fi network as the VSSL A.1.
2. In the menu bar find the speaker icon.
3. Hold down the option key and click the icon.
4. Select the device, in this case the A.1, you wish play to.

iTunes®

1. Connect your computer to the same Wi-Fi network as the VSSL A.1.
2. Open iTunes on your computer.
3. To the right of the volume slider in iTunes, click . You'll see this icon only when an AirPlay-enabled device is on the same Wi-Fi network.
4. Click the zone/room you wish play to. Each VSSL zone will have speaker icons next to them.

Note: There are slight variations to the AirPlay instructions depending on your OS version. For details please see the Apple Support website. https://support.apple.com/

Chromecast built-in

Chromecast built-in is a platform that lets you cast your favorite music from your phone, tablet or laptop right to your speakers. Easily control your speakers with apps you already know and love from your iPhone®, iPad®, Android phone or tablet, Mac® or Windows® laptop, or Chromebook.

With Chromecast built into your VSSL A.1, your phone becomes your remote. Simply tap the Cast button from the app to stream music/tunes/podcasts/ playlists from your phone, tablet or laptop to your VSSL A.1.

Note: Go to the Chromecast built-in website for a full list of Chromecast enabled apps. https://www.google.com/cast/apps

Android™

1. Connect your Android device to the same Wi-Fi network as the VSSL A.1.
2. Go to your favorite Chromecast-enabled music app and play music.
3. While in the music app look for the Cast button and press.
4. Select the zone/room/group you wish play to.

Mirror your Android phone or tablet

You can hear anything playing on your Android device on your speakers connected to a VSSL A.1 zone.

1. From your Android phone or tablet, open the Google Home app.
2. Tap the left hand navigation to open the menu.
3. Tap “Cast screen/audio” and select the device, in this case the A.1, you wish play to.

iOS

1. Connect your iOS device to the same Wi-Fi network as the VSSL A.1.
2. Go to your favorite Chromecast-enabled music app and play music.
3. While in the music app look for the Cast button and press.
4. Select the zone/room/group you wish play to.

Mac®/PC

1. Connect your Mac or PC device to the same Wi-Fi or wired network as the VSSL A.1.
2. Make sure you have the latest version of Chrome installed.
3. In the top right corner of your Chrome browser, press the Cast button.
4. Select the zone/room/group you wish play to.

Note: For configuring groups and volume control of Chromecast sessions, you must use the Google Home app. The Google Home app is available on iOS and Android in the Apple App Store and the Google Play store.

Spotify Connect®

Use your phone, tablet or computer as a remote control for Spotify. Go to spotify.com/connect to learn how.

Note: The Spotify software is subject to third party licenses found here: www.spotify.com/connect/third-party-licenses

Bluetooth

Your VSSL A.1 is equipped with Bluetooth. The Bluetooth on the A.1 is always in discover mode. You can use the VSSL app to disconnect a current Bluetooth connection or adjust other Bluetooth settings.

Use with Apple TV

Through AirPlay on the VSSL A.1 you can connect a zone of your A.1 directly to an Apple TV. This is an easy way to get audio from the TV to in-ceiling speakers. However, this will only work when using the Apple TV as a source.

In the settings of the Apple TV, you can navigate to the audio settings to select an Airplay speaker as the audio output device. From this menu, you can select the VSSL A.1 to output to. Please reference the Apple TV manual for details on the audio settings of the Apple TV.

Local Music Library

For local music you can use any DLNA, Chromecast or Airplay based streaming app to play content to your VSSL A.1. You can also use these apps to access local music from a NAS drive.

VSSL APP

Use the VSSL app for:

- Volume control of all zones.
- Quickly see the system and errors.
- Groupings with local content or DLNA sources.
- Adjust system settings like zone mono/stereo output, EQ, and max volume.

VSSL App (iOS)

Available in the Apple App store for iPhone, iPad, and iPod touch with iOS 7.0 or later.
Link to Apple iOS App store

VSSL App (Android)

Available for devices with Android 5.0 and greater in the Google Play store.
Link to Google Play store

Note: When using Chromecast built-in, you must use the Google Home app for zone groups, volume, and set up.

SYSTEM UPDATES

Your VSSL system will update automatically. This ensures delivery of important updates and will keep your system running bug free.

For the first time out of the box or after factory reset the A.1 device will update after the setup is complete in the Google Home app, if there is an update available.

LED notification details:

1. The device status indicator will blink a multicolor pattern during download and the power LED will blink several times.

2. When finished downloading, the A.1 will reboot to a normal boot up sequence with the device status indicator flashing red.
3. When the device indicator LED goes white and then off, the update is complete.

The system will check for updates after a reboot and at regular daily intervals. If an update is available, the system will only update if there is no music playing.

FACTORY RESET

You can reset your A.1 device to its factory default settings in two ways:

1. Using a small pin, press and hold the reset button on the back of the A.1 for 5 seconds. The device status indicator will turn solid pink when successful and you can let go of the button.
2. In the VSSL app, under Device Settings, you can find an option to factory reset the unit.

TROUBLESHOOTING

No music output

1. First ensure the device is powered on by checking the power indicator light.
2. Make sure the device is connected to the local network. If no network is connected the device status indicator will be yellow.
3. Check your speaker connections. Make sure all the cables are properly terminated in the phoenix connectors and there are no wires touching across to other ports.
4. You can use a toner to ensure the wire connections are not cut to the speaker in the zone.
5. Open the VSSL app to make sure the zone you're playing to is not muted or the volume is turned up.
6. Check your internet connection by loading web pages on a computer/phone/tablet or checking status indicators on your internet modem (see you modem manual to identify the proper status indicator).
7. Try different streaming protocols Airplay, Chromecast, Spotify, or Bluetooth to see if a particular protocol is having the issue.
8. Try different music apps like Apple Music, Spotify, or Pandora.
9. Also check an external input to make sure the sound can output.
10. If these suggestions don’t solve the issue contact VSSL support.

Poor Playback

Poor playback can be caused by high network traffic or other networking issues.

1. Check your internet connection by loading web pages on a computer/phone/tablet.
2. Try reducing wireless interference by moving closer to the Wi-Fi router or access point.
3. If these suggestions don’t solve the issue contact VSSL support.

Check the Music App

Playback issues can be caused from the music app installed on your phone, tablet, computer, or other device.

1. Restart the app by closing and reopening the app to solve playback issues.
2. Check the music services online site to find reports of service outage.
3. If these suggestions don't solve the issue contact VSSL support.

System Status Screen

You can use the system status screen to get an overview of the status of all the devices in your network.

1. On the system status screen, if any of the devices show red, this indicates an error.
2. To resolve the issue verify your network connection and if needed reboot the device.

Device Reboot

You can reboot your A.1 through the VSSL app.

1. In the VSSL app navigate to the device settings.
2. Under device settings you will see an option to restart the device.
3. You can also do a hard reset by toggling the power switch on the back of the A.1.

Restore Factory Defaults

You can restore the factory settings of your A.1 through the VSSL app.

1. In the VSSL app navigate to the device settings.
2. Under device settings you will see an option to restart the device.
3. You can also do a hard reset by toggling the power switch on the back of the A.1.

Note: For more support and other questions please see vssl.com/support

IMPORTANT SAFETY INFORMATION

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 manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not bypass 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 are 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 attachments/accessories specified by the manufacturer.
12. Use only with 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 lighting 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.

WARNING

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 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.
- An appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Please always keep at least 20cm away from this device.

FCC STATEMENT

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.

Cet appareil est conforme à la section 15 des réglementations de la FCC. Le fonctionnement de l'appareil est sujetaux deux conditions suivantes :
(1) cet appareil ne doit pas provoquer d'interférences néfastes, et
(2) cet appareil doit tolérer les interférences reçues, y compris celles qui risquent de provoquer un fonctionnement indésirable.

Note: This product 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 product 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 product 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.

Please take attention that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.