



AMP5.1S

SETUP MANUAL & USER GUIDE

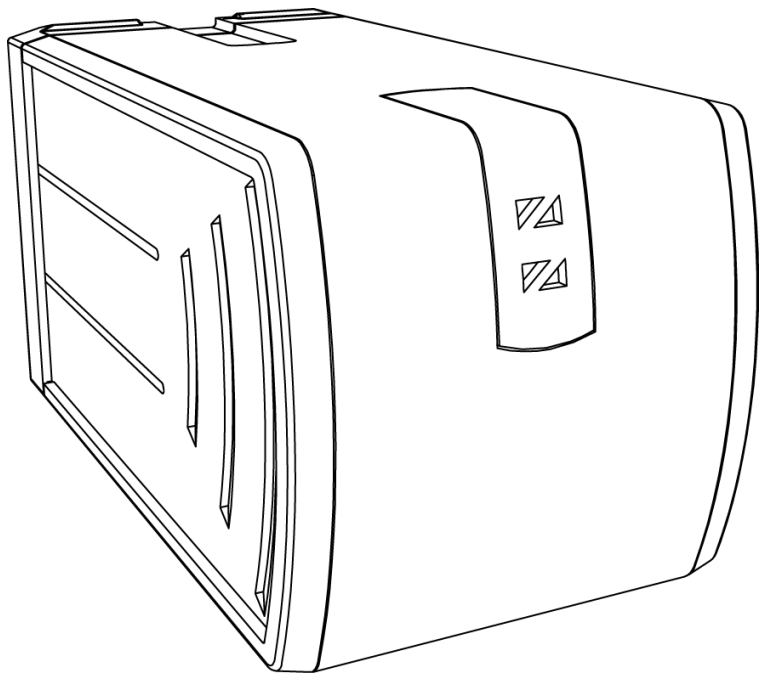



TABLE OF CONTENTS

4	GETTING STARTED
5	OVERVIEW
6	PLUGGING IN THE AMP5.1S Powering On Your AMP 5.1S
7-9	Wi-Fi NETWORK SETUP Option A: Using Your iPhone, iPad, or iPod touch (<i>Recommended</i>)
10-11	Wi-Fi NETWORK SETUP Option B: Using A Web Browser On Your Mac, PC, or iOS Device
12	NETWORK CONNECTION How To Confirm A Network Connection
13-15	HOW TO AIRPLAY Using Your iPhone, iPad, iPod touch, iTunes, or Apple TV
16-17	LED STATUS INDICATORS
18-22	TROUBLESHOOTING
23	SUPPORT
24	SPECIFICATIONS
25-26	WARRANTY INFORMATION
27	SAFETY INFORMATION

GETTING STARTED

CONGRATULATIONS ON THE PURCHASE OF YOUR NEW AMP5.1S.

AMP5.1S IS DESIGNED FOR USE WITH ZENOVIA AIRHOME™ MULTIROOM AUDIO SYSTEMS AND DOES NOT FUNCTION AS A STANDALONE PRODUCT. (*AIRHOME5 SOLD SEPARATELY*)

Read this user guide to begin streaming your digital music wirelessly via AirPlay®  using your favorite apps running on your preferred iOS devices including iPhone®, iPad®, iPod touch®, Apple TV®, or Mac® or PC running iTunes®.

To use AirPlay you will require one of the following:

- iPhone, iPad, or iPod touch running iOS 4.3.3 or later
- Mac or PC running iTunes 10.2.2 or later
- Mac with OS X Mountain Lion or later
- Apple TV running iOS 5.2 or later

To use your AMP5.1S you will require:

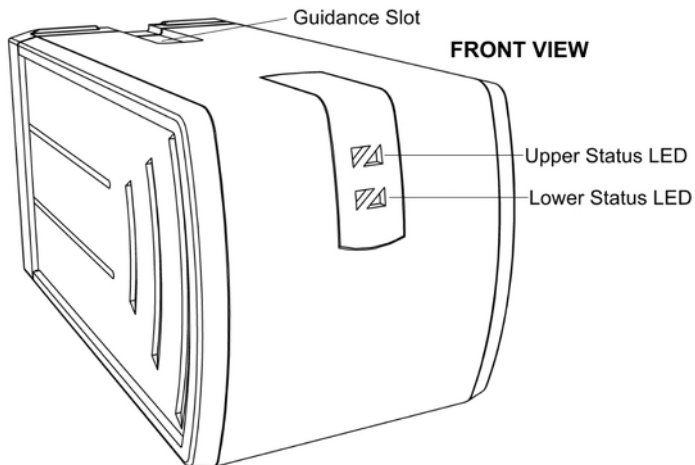
- a Wi-Fi® network that supports the IEEE 802.11b/g standards, and
- the Zenovia AIRHOME5 multiroom audio system pre-wired and installed in your home

IMPORTANT: AirPlay works over Wi-Fi. To use AirPlay you must connect your AMP5.1S to your Wi-Fi network. Confirm that you have an operational Wi-Fi network and have your network name and password ready.

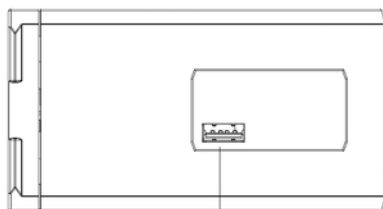
**See the Zenovia AIRHOME5 User Guide & Installation Instructions for details on how to pre-wire and install the AIRHOME5 multiroom audio system.*

OVERVIEW

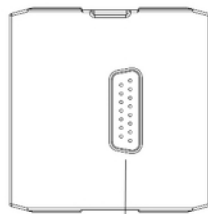
Connectors & Indicators



BOTTOM VIEW



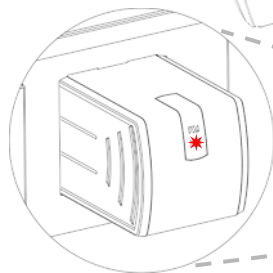
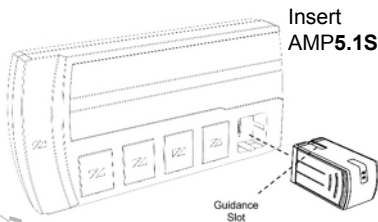
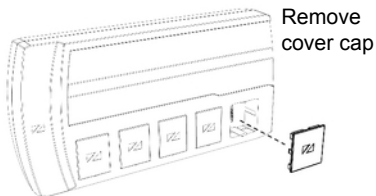
REAR VIEW



PLUGGING IN THE AMP5.1S

How To Power-On Your AMP5.1S

Remove a cover cap and insert the AMP5.1S into the AIRHOME5. The lower LED status indicator on the AMP5.1S will begin flashing red when power is connected.



Configure
AMP5.1S on
network

***IMPORTANT:** If the AMP5.1S does not automatically power-on, confirm that your AIRHOME5 multiroom audio system is connected to AC power. There is no "on" switch on the AMP5.1S or the AIRHOME5. Refer to the Zenovia AIRHOME5 User Guide for details and safety instructions.

Wi-Fi NETWORK SETUP

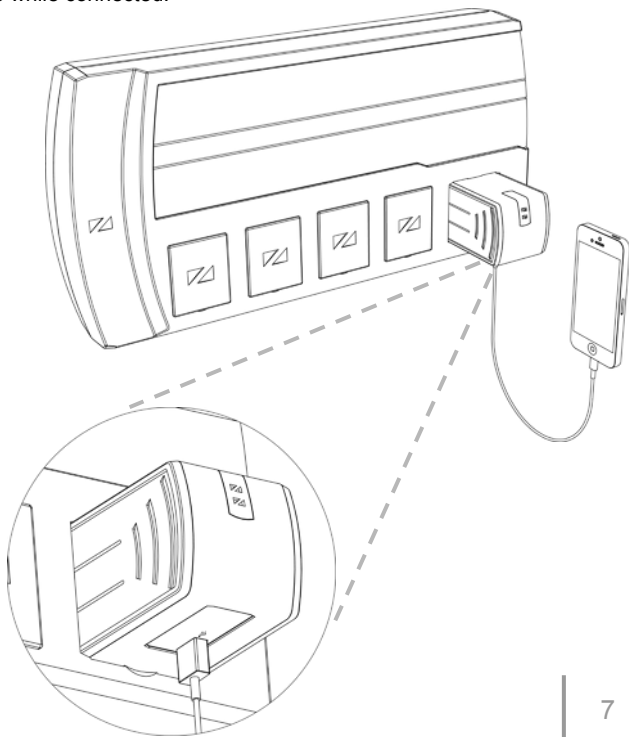
Option A: Using Your iPhone, iPad, or iPod touch

Download the free AIRHOME app on the App Store.

Connect your iOS device to the AMP5.1S using a USB sync cable.

Open the AIRHOME app while connected.

(continued next page...)



Wi-Fi NETWORK SETUP

Option A: Using Your iPhone, iPad, or iPod touch *(continued...)*

Follow the automatic AIRHOME app setup procedure:

- > Name the AMP**5.1S**
- > Select your preferred Wi-Fi network
- > Enter your network password *(only WPA/WPA2 network security is supported)*
- > Click 'Save'

(continued next page...)

NAME	Living Room
NETWORK	My Home Network
PASSWORD	● ● ● ● ● ● ● ●

Wi-Fi NETWORK SETUP

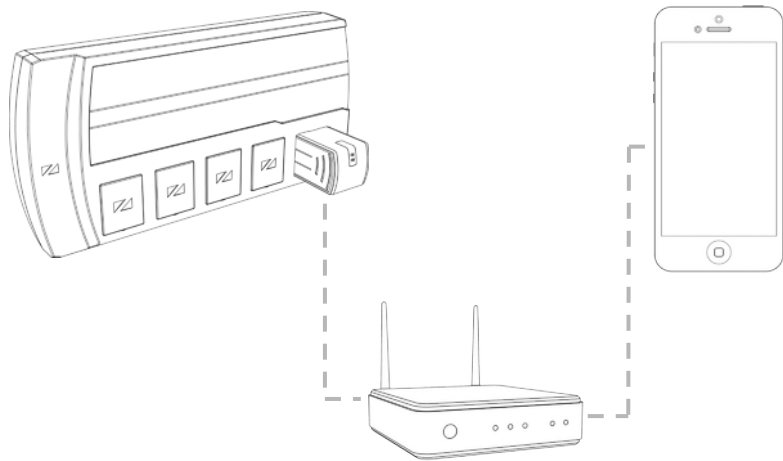
Option A: Using Your iPhone, iPad, or iPod touch

(continued...)

IMPORTANT: Disconnect your iPhone, iPad, or iPod touch from the AMP5.1S USB connector and then connect your iPhone, iPad, or iPod touch to the same Wi-Fi network as your AMP5.1S.

When the upper LED status indicator is solid blue, Wi-Fi network connection is confirmed.

You're now ready to AirPlay! See page 13, "HOW TO AIRPLAY"



**See page 12 for details on "NETWORK CONNECTION"*

Wi-Fi NETWORK SETUP

Option B: Using a Web Browser on your Mac, PC, or iOS device

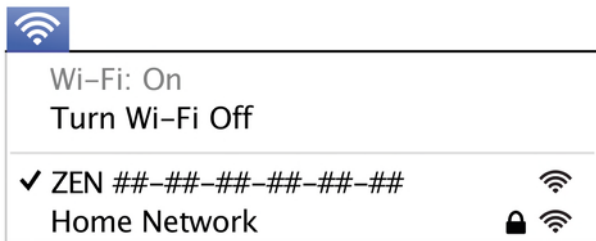
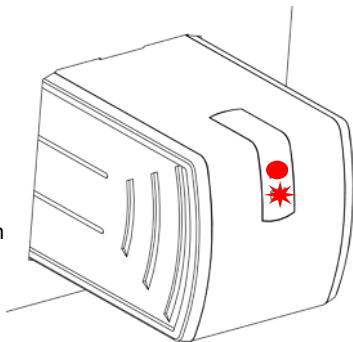
When the upper LED status indicator turns solid red and the lower LED status indicator is flashing red, the AMP5.1S is broadcasting a Wi-Fi network.

Connect your Mac, PC, or iOS device to the network

ZEN ##-##-##-##-##-##

IMPORTANT: The lower status LED will turn off when you have successfully connected to your AMP5.1S.

(continued next page...)



Wi-Fi NETWORK SETUP

Option B: Using a Web Browser on your Mac, PC, or iOS device

(continued...)

Open your web browser and type 192.168.12.34 into the address bar.

192.168.12.34

> Name the AMP**5.1S**

> Select your preferred Wi-Fi network from the network menu

> Enter your network password (*only WPA/WPA2 network security is supported*)

> Click 'Save'

(continued next page...)

Device Information

Living Room

Home Network



.....

SAVE

It can take up to 2 minutes for the AMP5.1S** to connect to your Wi-Fi network.*

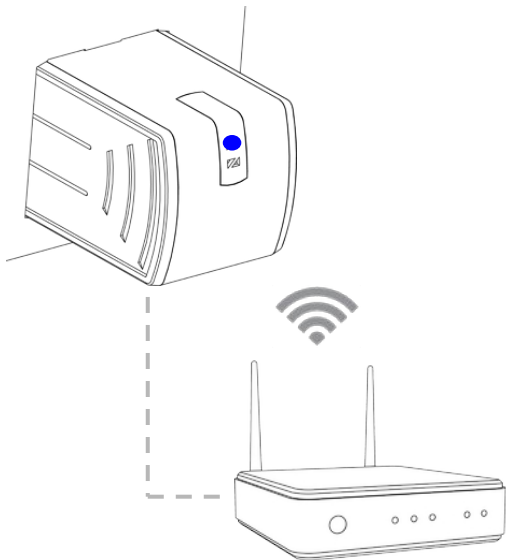
NETWORK CONNECTION

How To Confirm A Network Connection

When the upper LED status indicator is solid blue, Wi-Fi network connection is confirmed.

You're now ready to AirPlay! See page 13, "HOW TO AIRPLAY"

IMPORTANT: Restore your Mac, PC, or iOS device Wi-Fi settings back to your preferred Wi-Fi network.




**If the AMP5.1S fails to connect due to an incorrect network password or other error, it will begin broadcasting a Wi-Fi network again and you must repeat the setup procedure.*

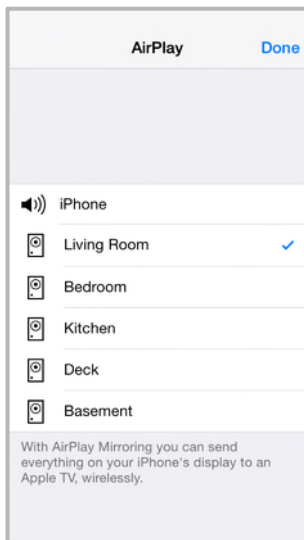
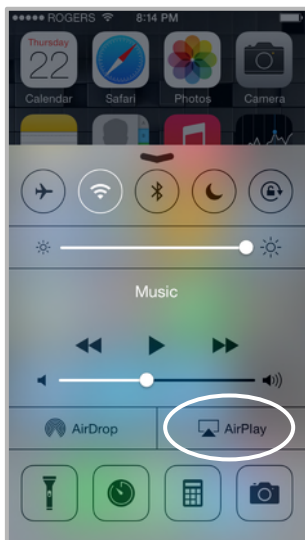
HOW TO AIRPLAY

Using Your iPhone, iPad, or iPod touch

Connect your iPhone, iPad, or iPod touch to the same Wi-Fi network as your AMP5.1S.

Start a music application, swipe-up from the bottom of your screen to access the Control Center and press  AirPlay.

Select the AMP5.1S that corresponds to the room you would like to listen to music in and enjoy!



AirPlay Compatibility: AirPlay works with iPhone, iPad, and iPod touch running iOS 4.3.3 or later.

**AirPlay automatically appears when your AMP5.1S and iOS device are on the same Wi-Fi network.*

HOW TO AIRPLAY

Using iTunes on Your Mac or PC

Connect your Mac or PC to the same Wi-Fi network as your AMP5.1S.

Open iTunes and click the AirPlay  icon next to the volume control.

Select the AMP5.1S that corresponds to the room you would like to listen to music in and enjoy!



AirPlay Compatibility: AirPlay works with Mac or PC running iTunes 10.2.2 or later.

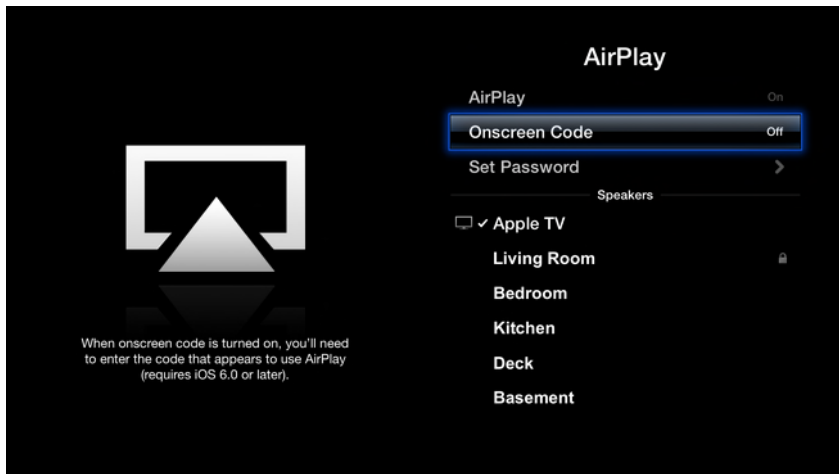
HOW TO AIRPLAY

Using Your Apple TV

Connect your Apple TV to the same Wi-Fi network as your AMP5.1S.

Turn on your Apple TV and go to 'Settings' > 'AirPlay'

Select the AMP5.1S that corresponds to the room you would like to listen to music in and enjoy!



AirPlay Compatibility: AirPlay works with Apple TV (2nd and 3rd generation) running iOS 5.2 or later.

**The AirPlay menu will automatically display your AMP5.1S when your AMP5.1S and Apple TV are on the same Wi-Fi network.*

LED STATUS INDICATORS

MODE	LED	STATUS	DESCRIPTION
Default setup	Upper LED	Solid red	AMP 5.1S is ready for network setup and is broadcasting the network ZEN ##-##-##-##-##-##
	Lower LED	Flashing red	
Network connection established	Upper LED	Solid blue	AMP 5.1S is connected to a network and ready for use
	Lower LED	Off	
Playing music	Upper LED	Solid blue	AMP 5.1S is connected to a network and actively streaming audio
	Lower LED	Solid green	
Default setup with client connected	Upper LED	Solid red	A client has successfully connected to the AMP 5.1S network during network setup
	Lower LED	Off	
Searching for network	Upper LED	Off	AMP 5.1S is attempting to connect to a network
	Lower LED	Flashing red	
Booting up	Upper LED	Off	AMP 5.1S is preparing to connect to a network
	Lower LED	Solid red	

LED STATUS INDICATORS

MODE	LED	STATUS	DESCRIPTION
Streaming in default setup	Upper LED	Solid red	AMP 5.1S is streaming music from tethered iOS device while in network setup mode
	Lower LED	Flashing green	
Streaming in default setup with client	Upper LED	Solid red	AMP 5.1S is streaming music from tethered iOS device while in network setup mode with a client connected to the network
	Lower LED	Solid green	
Updating	Upper LED	Solid green	AMP 5.1S has an update in progress
	Lower LED	Solid green	
Update successful	Upper LED	Solid blue	AMP 5.1S has successfully updated
	Lower LED	Solid blue	
Error	Upper LED	Flashing red	AMP 5.1S has failed while in progress and AirPlay will not work
	Lower LED	Flashing red	

TROUBLESHOOTING

Advice on how to solve most problems quickly

Your AMP5.1S will not connect to your wireless network

Confirm Wi-Fi network name (SSID) and password (if applicable) are correct.

Use only WPA/WPA2 network security. DO NOT use WEP or WPA/WPA2 Enterprise.

Confirm the AMP5.1S is within range of the wireless network access point.

If wireless network is hidden, un-hide the network, connect the AMP5.1S, and re-hide the network.

Avoid proximity to devices that may cause Wi-Fi interference such as microwave ovens.

Reset AMP5.1S and repeat setup using the free AIRHOME app.

- 1) Download the AIRHOME app on the App Store
- 2) Tether iPhone/iPad/iPod touch using USB sync cable and setup Wi-Fi
- 3) Click 'Reset Device' and follow setup procedure

Your AMP5.1S sound is distorting

Lower the volume because the iOS device or iTunes is overloading the AMP5.1S.

You hear a loud hum in the connected speakers

Verify the AIRHOME5 speaker wiring is not in proximity to AC power lines.

You don't hear any sound

Confirm speakers and speaker wires are connected to the 6 pole connectors of the AIRHOME5.

Pause audio in iTunes or iOS and then press play.

Disconnect any tethered USB cables or iOS devices.

**See Zenovia AIRHOME5 User Guide & Installation Instructions for details on how to pre-wire and install the AIRHOME5 multiroom audio system.*

TROUBLESHOOTING

(continued...)

Adjust the volume on the iOS device or iTunes.

Avoid proximity to devices that may cause Wi-Fi interference such as microwave ovens.

The temperature inside the AMP5.1S has risen and the amplifier protection circuit is active.

- 1) Allow time for temperature to cool down sufficiently before attempting operation
- 2) Confirm the AMP5.1S is receiving proper ventilation
- 3) Verify bare (+) and (-) speaker wires are not touching and shorting in the AIRHOME5

You don't hear any sound from the subwoofer

Confirm that a self-powered subwoofer is connected via "High Level" inputs and turn on the self-powered subwoofer.

No AirPlay icon appears on your iOS device or iTunes

Confirm the AMP5.1S is on the same Wi-Fi network as your iOS device, or Mac or PC running iTunes.

Download the latest version of iOS and/or iTunes.

Confirm there is no firewall or security software blocking ports that AirPlay uses.

Restart iTunes, your iOS device, and any applications running on your iOS device.

Confirm Bonjour services are enabled if running iTunes on a PC.

Restart your wireless router.

Manually remove and then re-insert the AMP5.1S into the AIRHOME5 audio panel.

Open the AIRHOME app on an iOS device, select AMP5.1S > Settings > press 'Restart Device'

TROUBLESHOOTING

(continued...)

Your AMP5.1S was connected but is no longer visible on your Wi-Fi network

Restart iTunes, your iOS device, and any applications running on your iOS device.

Manually remove and then re-insert the AMP5.1S into the AIRHOME5.

Restart your wireless router.

Open the AIRHOME app on an iOS device.

A) Select the AMP5.1S > Settings > press 'Restart Device', or

B) Tether your iOS device to the AMP5.1S with a USB sync cable and press 'Restart Device'

AirPlay streaming is losing connection

Enable Quality of Service (QoS) on your wireless network router.

Confirm the AMP5.1S is within range of the wireless network access point.

Restart the AMP5.1S, iTunes, your iOS device, and any iOS applications you have running.

Restart your wireless router.

AirPlay performance may be affected by excessive internet traffic on the same Wi-Fi network.

1) Try limiting the amount of devices being used on your Wi-Fi network

2) Try limiting the amount of internet media being browsed on your Wi-Fi network

Updating your AMP5.1S firmware

There are 3 ways to update. First ensure your AMP5.1S is connected to a network with internet access. When the AMP5.1S firmware is successfully updated, it will automatically rejoin the network and resume regular operation.

TROUBLESHOOTING

(continued...)

Option A: Updating the AMP5.1S firmware using the AIRHOME app on your iOS device while tethered to the AMP5.1S via USB sync cable

- 1) Ensure your iOS device has access to the internet
- 2) Download the free AIRHOME app on the App Store
- 3) Tether your iOS device to the AMP5.1S using a USB sync cable
- 4) Open the AIRHOME app and select Settings > Firmware > Update

Option B: Updating the AMP5.1S firmware over-the-air using the AIRHOME app on your iOS device while on the same Wi-Fi network as your AMP5.1S

- 1) Ensure your iOS device and AMP5.1S are on the same network with internet access
- 2) Download the free AIRHOME app on the App Store
- 3) Open the AIRHOME app and all AIRHOME devices on your network will appear in a list
- 4) Select the AMP5.1S and go to the Settings > Firmware > Update

Option C: Updating the AMP5.1S firmware using the AMP5.1S website

- 1) Ensure the AMP5.1S is on the same network as your Mac or PC
- 2) Open the Safari web browser on your Mac or PC
- 3) Go to Bookmarks > Bonjour menu and select your AMP5.1S
- 4) Open the AMP5.1S website and select Firmware > Update

TROUBLESHOOTING

(continued...)

Note: If an update is available, a notification will be at the top of the web page. Clicking it will begin the update. You can also begin the process by clicking the "Update" button in the Firmware section.

Note: If the Bonjour option is not available in Bookmarks, it can be enabled by going to Safari > Preferences > Bookmarks and checking "Include Bonjour" under "Bookmarks Menu".

Note: If you do not have Safari, refer to your router's connected devices listing in order to find the AMP5.1S IP address. For instructions on how to locate this, refer to your router's manual. Once you have the IP address, type it into your web browser's address bar to navigate to the AMP5.1S website.

SUPPORT

For more information

Visit Our Online Resources

See www.airhome.io for the latest information about AMP**5.1S**.

Warranty Service

If the product appears to be damaged or does not function properly, please follow instructions in this manual or onscreen help at our website.

Go to www.zenoviaelectronics.com/warranty for warranty information if the device still will not function.

Serial Number

The serial number of your AMP**5.1S** is printed on the back of the device.

www.airhome.io/support

SPECIFICATIONS

High Efficiency Class D Audio Amplifier.

Product	AMP5.1S
Speaker configuration	Surround Sound 5.1
Amplifier power	20 Watts x 3 @ 8 Ω (L / R / C) 7.5 Watts x 2 @ 8 Ω (RL / RR) Subwoofer High Level Line Out @ 500 Ω
Technical features	Apple® AirPlay® technology
Frequency response	20Hz - 20kHz
Power requirement	24V DC
Power source	Zenovia AIRHOME systems.
Power consumption	< 0.5W (standby); 75W (maximum)
Dimensions (W x H x L)	2-1/2" x 2-1/2" x 4-5/8" (64mm x 64mm x 117mm)

AMP5.1S IS FOR USE WITH ZENOVIA AIRHOME SYSTEMS.

IMPORTANT: AMP5.1S Subwoofer High Level Line Out must be connected to the "High Level" speaker wire input on a self-powered subwoofer. AMP5.1S Subwoofer High Level Line Out will not power a passive subwoofer.

NOTE: Zenovia Electronics Inc. reserves the right to change product features, specifications, and appearance without notice.

WARRANTY INFORMATION

Zenovia One (1) Year Limited Warranty.

FOR ZENOVIA BRANDED PRODUCTS ONLY

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS THAT VARY FROM PROVINCE TO PROVINCE OR BY COUNTRY OR STATE. OTHER THAN AS PERMITTED BY LAW, ZENOVIA DOES NOT EXCLUDE, LIMIT OR SUSPEND OTHER RIGHTS YOU MAY HAVE, INCLUDING THOSE THAT MAY ARISE FROM THE NONCONFORMITY OF A SALES CONTRACT. FOR A FULL UNDERSTANDING OF YOUR RIGHTS YOU SHOULD CONSULT THE LAWS OF YOUR COUNTRY, PROVINCE OR STATE. Residents of Quebec are governed by that province's consumer protection legislation.

WHAT IS COVERED BY THIS WARRANTY?

ZENOVIA warrants the ZENOVIA- branded hardware product and accessories contained in the original packaging ("ZENOVIA Product(s)") against defects in materials and workmanship when used normally in accordance with ZENOVIA's published guidelines for a period of ONE (1) YEAR from the date of original retail purchase by the end-user purchaser ("Warranty Period"). ZENOVIA'S published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

Unless otherwise stated, and to the extent permitted by local law, new ZENOVIA Products may be manufactured using new materials or new and used materials equivalent to new in performance and reliability. ZENOVIA may repair or replace ZENOVIA Hardware Products: (a) with new or previously used products or parts equivalent to new in performance and reliability; or (b) with equivalent products to an original product that has been discontinued. Replacement parts are warranted to be free from defects in material or workmanship for ninety (90) days or, for the remainder of the Warranty Period of the ZENOVIA Products they are replacing or in which they are installed, whichever is longer.

WARRANTY LIMITATIONS THAT MAY AFFECT CONSUMER LAW

APPLICABLE TO ALL OF (i) CANADA, EXCEPT QUEBEC; AND (ii) THE UNITED STATES OF AMERICA: TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET FORTH ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL, WRITTEN, STATUTORY, EXPRESS OR IMPLIED. ZENOVIA DISCLAIMS ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS, TO THE EXTENT PERMITTED BY LAW. IN SO FAR AS SUCH WARRANTIES

WARRANTY INFORMATION

(continued...)

CANNOT BE DISCLAIMED, ZENOVIA LIMITS THE DURATION AND REMEDIES OF SUCH WARRANTIES TO THE DURATION OF THIS EXPRESS WARRANTY AND, AT ZENOVIA'S OPTION, THE REPAIR OR REPLACEMENT SERVICES DESCRIBED AT www.zenovielectronics.com/warranty. SOME PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY (OR CONDITION) MAY LAST, SO THE LIMITATION DESCRIBED ABOVE MAY NOT APPLY TO YOU.

PRIVACY

ZENOVIA will maintain and use customer information in accordance with the ZENOVIA Customer Privacy Policy available at www.zenovielectronics.com/privacy.

GENERAL

No ZENOVIA reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired. This warranty is governed by and construed under the laws of the country in which the ZENOVIA Product purchase took place. To obtain warranty service, please visit www.zenovielectronics.com/support and for more information on warranty issues, please refer to www.zenovielectronics.com/warranty. ZENOVIA or its successor in title is the warrantor under this warranty.



The lighting flash and arrowhead within the triangle indicates that there is dangerous voltage inside the product.

CAUTION

RISK OF ELECTRICAL SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The explanation point within the triangle indicates that there are important instructions accompanying the product.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION: MAKE NO MODIFICATIONS TO THE SYSTEM OR ACCESSORIES. UNAUTHORIZED ALTERATIONS MAY COMPROMISE SAFETY, REGULATORY COMPLIANCE, AND SYSTEM PERFORMANCE.



CAUTION: NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLE, SHOULD BE PLACED ON THE APPARATUS. IF NAKED FLAME SOURCES ACCIDENTALLY FALL DOWN, FIRE SPREAD OVER THE APPARATUS THEN MAY CAUSE FIRE.

IMPORTANT SAFETY INSTRUCTIONS

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 a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the 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. Use only attachments/accessories specified by the manufacturer.
10. Disconnect this apparatus during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.

THIS DEVICE IS FOR USE WITH ZENOVIA AIRHOME™ SYSTEMS.
CONTAINS FCC ID: ZQO-CX8703I. CONTAINS IC: 2581A-CX8703I.

NOTICE: Changes or modifications not expressly approved by Zenovia Electronics Inc. could void the user's authority to operate this equipment.

AirPlay, iPhone, iPad, iPod touch, Mac, OS X, iTunes, and Apple TV are trademarks of Apple Inc., registered in the U.S. and other countries.

The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance. Wi-Fi is a trademark of the Wi-Fi Alliance.

Airhome and Zenovia are trademarks of Zenovia Electronics Inc.

All other trademarks and copyrights are property of their respective owners.

"Made for iPod," and "Made for iPhone," mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

