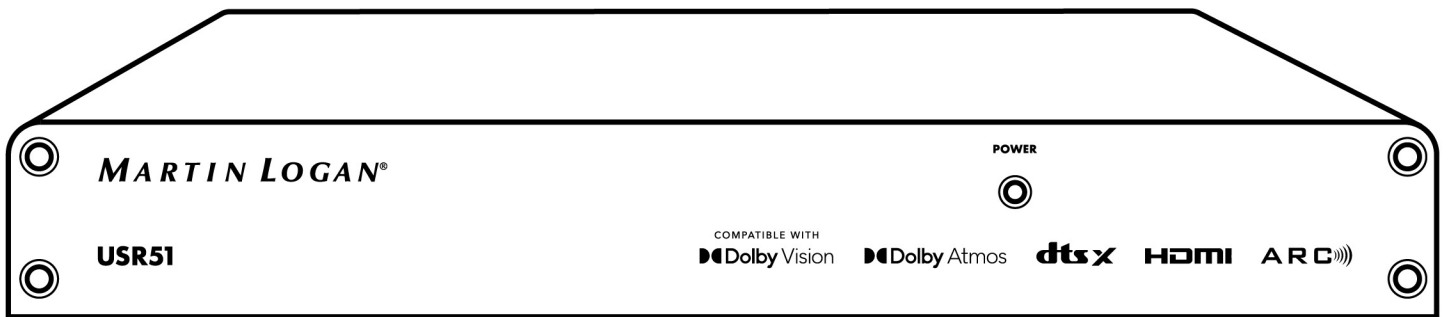




USR51 A/V RECEIVER



Applicable to firmware version 1.3 or later.

IMPORTANT SAFETY INSTRUCTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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. 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. 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. When 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 the attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus.
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. Do not operate this apparatus at an altitude over 6561 ft / 2000 m.

WARNING:

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:



- Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
- Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Install it away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

Install this unit near the AC outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source when it is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.

NOTES:

This product is not an auto voltage receiver. Connect only to the prescribed AC source as shown above the AC inlet of the receiver. i.e., 120VAC 60Hz (250W maximum) or 220-240VAC 50Hz, 1-phase (250W maximum).

CAUTION:

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.



Changes or modifications to this equipment not expressly approved by MartinLogan for compliance could void the user's authority to operate this equipment.

FCC WARNING:

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

**Notes:**

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- Connect the equipment into an outlet on a circuit different from that to which the amplifier is connected.
- Consult the dealer or an experienced radio / TV technician for help.

USA CANADA
FCC Information (For US customers)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

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. This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate warranty and all applicable regulatory certifications and approvals, including authority to operate this device.

2. CAUTION

- To comply with the FCC/IC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
- This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Operations in the 5.15 - 5.25 GHz band are restricted to indoor usage only.
- For operation within 5.15 - 5.25 GHz / 5.25 - 5.35 GHz / 5.47 - 5.725 GHz frequency range, it is restricted to indoor environment.
- This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

3. COMPLIANCE INFORMATION

- Product Name: USR51 : AV Receiver
- CONTAINS TRANSMITTER MODULE FCC ID: 2AJYB-ST1955

This product complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.
Martinlogan Ltd.
2101 Delaware St. Lawrence, KS 66046 U.S.A.

4. 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 product 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 product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

IC Information (For Canadian customers)

1. PRODUCT

CONTAINS TRANSMITTER MODULE IC: 20504-ST1955

For Canadian customers/Pour les clients Canadiens: CAN ICES-003(B)/NMB-003(B) This Class B digital apparatus complies with Canadian ICES-003 and RSS-247. 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.

2. CAUTION

This product complies with RSS-210 of Innovation, Science and Economic Development Canada. The installer of this radio equipment must ensure that the product is located such that it does not emit RF field in excess of Health Canada limits for the general population: consult Safety Code 6, obtainable from Health Canada's Web site www.hc-sc.gc.ca/rpb. As mentioned before, the installer cannot control the antenna orientation. However, they could place the complete product in a way that causes the problem mentioned above. The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. Be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350MHz and 5650-5850MHz and that these radars could cause interference and/or damage to LEAN devices. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and Where applicable, antenna type(s), antenna model(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 of RSS-247 shall be clearly indicated.

RF Exposure Information

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. Cet équipement est conforme aux normes d'exposition aux radiations FCC/IC définies pour un environnement non contrôlé et satisfait les directives d'exposition à la radiofréquence (RF) dans le supplément C des OET65 et RSS-102 des règles d'exposition à la fréquence radio (RF) IC. Cet équipement a de très faibles niveaux d'énergie RF qui sont jugés conformes sans test de taux d'absorption spécifique (SAR).

Informations sur IC (pour les clients canadiens)

1. APPAREIL

CONTIENT MODULE ÉMETTEUR IC: 20504-ST1955

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-247. L'exploitation est soumise aux deux conditions suivantes : (1) Cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) Cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

2. ATTENTION

Ce produit est conforme au RSS-210 d'Innovation, Sciences et Développement économique Canada. L'installateur de cet équipement radio doit s'assurer que le produit est situé de telle sorte qu'il n'émet pas de champ RF dépassant les limites de Santé Canada pour la population générale : consulter le Code de sécurité 6, disponible sur le site Web de Santé Canada www.hc-sc.gc.ca/rpb. Comme mentionné précédemment, l'installateur ne peut pas contrôler l'orientation de l'antenne. Cependant, ils pourraient placer le produit complet d'une manière qui provoque le problème mentionné ci-dessus. L'appareil destiné à fonctionner dans la bande 5 150-5 250 MHz est uniquement destiné à une utilisation en intérieur afin de réduire le risque d'interférence nuisible aux systèmes par satellite mobiles co-canaux. Sachez que les radars de haute puissance sont attribués en tant qu'utilisateurs principaux (c'est-à-dire utilisateurs prioritaires) des bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient provoquer des interférences et/ou endommager les appareils LEAN. Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler le droit de l'utilisateur à utiliser l'équipement. La bande 5 150-5 250 MHz est uniquement destinée à une utilisation en intérieur afin de réduire le risque d'interférences nuisibles aux systèmes mobiles par satellite dans le même canal. Pour les appareils dotés d'antenne(s) amovible(s), le gain d'antenne maximal autorisé pour les appareils dans les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit être tel que l'équipement reste conforme à la p.i.r.e. limite. Pour les appareils dotés d'antenne(s) amovible(s), le gain d'antenne maximal autorisé pour les appareils dans la bande 5 725-5 850 MHz doit être tel que l'équipement reste conforme à la p.i.r.e. limites, le cas échéant ; et le cas échéant, le(s) type(s) d'antenne, le(s) modèle(s) d'antenne et le(s) angle(s) d'inclinaison dans le pire des cas nécessaires pour rester conforme à la p.i.r.e. L'exigence relative au masque d'élévation énoncée à la section 6.2.2.3 du RSS-247 doit être clairement indiquée.

Maximum RF Power in Operating Frequency Bands				
Frequency Bands, (GHz)	2.40-2.48	5.18-5.24	5.26-5.35	5.48-5.7
Maximum Peak Output Power	4.27 mW	32.35 mW		



PROPOSITION 65 WARNING (California only)

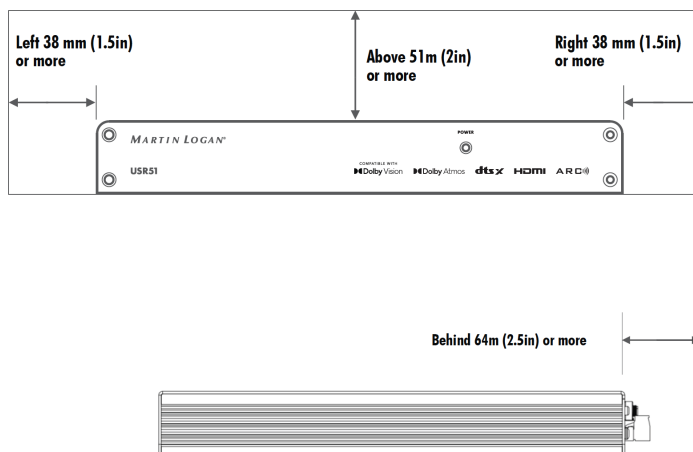
This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.p65warnings.ca.gov

To ensure long-lasting use, do not locate the unit:



- Exposed to direct sunlight.
- Near sources of heat such as heaters.
- Highly humid or poorly ventilated.
- Dusty.
- Subjected to mechanical vibrations.
- On wobbly, inclined, or otherwise unstable surfaces.
- Near windows where there is a chance of exposure to rain, etc.
- On top of an amplifier or other component which dissipates a great deal of heat. To ensure proper heat radiation, ensure clearance from walls and other equipment according to diagram.



DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. If, nonetheless, the mains plug is cut off, REMOVE THE FUSE and dispose of the PLUG immediately, to avoid possible shock hazard by inadvertent connection to the mains supply. If this product is not provided with a mains plug, or one has to be fitted, then follow the instructions given below:

IMPORTANT: DO NOT make any connection to the larger terminal which is marked with the letter "E" or by the safety earth symbol or colored GREEN or GREEN AND YELLOW.

The wires in the mains lead on this product are colored in accordance with the following code:

BLUE – NEUTRAL
BROWN – LIVE

As these colors may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

**The BLUE wire must be connected to the terminal marked with the letter "N" or colored BLACK.
The BROWN wire must be connected to the terminal marked with the letter "L" or colored RED.**

When replacing the fuse, only a correctly rated and approved type should be used, and be sure to re-fit the fuse cover. If in doubt consult a competent electrician.

At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging, point this out. The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials or other forms of recycling of old products, you are making an important contribution to the protection of our environment. Your local administrative office can advise you of the responsible waste disposal point.

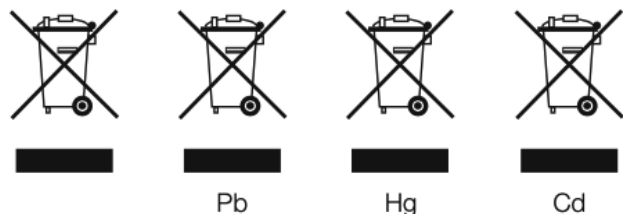
In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, require special reuse and recycling processing. For this reason Martin-Logan Ltd. (the manufacturer of MartinLogan speakers and electronic products) has arranged with its distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product or go to our website at www.martinlogan.com.

Please note that only the product falls under the WEEE directive. When disposing of packaging and other shipping material we encourage you to recycle through the normal channels.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (for European customers only)

Batteries bearing any of these symbols indicate that they should be treated as “separate collection” and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste. End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.



MartinLogan and any related party assume no liability for the user's failure to comply with any requirements.

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Use of the Works with Apple AirPlay badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

To use AirPlay with MartinLogan USR51, the latest version of iOS, iPadOS, or macOS is recommended.

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LICENSE INFORMATION FOR THE SOFTWARE USED IN THE UNIT

This product contains one or more free or open-source software programs originating from third parties. This free and open-source software is subject to the terms of the GNU General Public License, GNU Library/Lesser General Public License, or other different and/or additional copyright licenses, notices, and disclaimers. To understand your rights under these licenses, please refer to the specific terms of the licenses, notices, and disclaimers provided in the device's Web UI under the ⓘ (Information) page.

To receive a copy of the source code for the open-source software programs included in this product, please make your request to our customer service center.

MartinLogan will distribute such source code to you on a disc for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling.

All of the above-referenced licenses, notices, and disclaimers are reproduced and available with such source code. However, note that we make no guarantees concerning the source code. Please also understand that we do not offer support for the contents of the source code. This offer is valid for a period of three (3) years following the date of distribution of this product by MartinLogan.

The ⓘ (Information) page on the Web UI contains the latest software licenses used for this unit. To maintain the correct content, the original (English) is used.

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

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FAQ

SPECIFICATIONS

LIMITED WARRANTY

THE BIG PICTURE USR51 FRONT PANEL

THE BIG PICTURE USR51 BACK PANEL

1.0 INTRODUCTION

1.1 BEFORE MAKING CONNECTIONS

The USR51 is a small form-factor 5.1 A/V receiver capable of delivering 50W per channel. It includes the essential inputs (3.5 mm jack for analog audio, digital TOS input and HDMI®) and has a HDMI output supporting ARC and eARC. Audio streaming from various sources (Google Cast, Bluetooth, AirPlay® and various cloud services such as Spotify) are also accessible. Dolby Atmos® and DTS:X decoding as well as legacy Dolby®/DTS are supported. Room EQ is handled by award-winning Anthem Room Correction technology.

There is no display or volume control: all control and settings are available using a phone app, web browser or home automation system and basic operation can be achieved using the included remote. An external IR input can be optionally used when the unit is mounted behind the TV or away from the line of sight.

The unit has a variety of mounting options: rubber feet, snapping in a mounting bracket when locating behind a TV or on/in a wall (included in the accessory package) or in a standard 19" rack using a rack mount bracket.

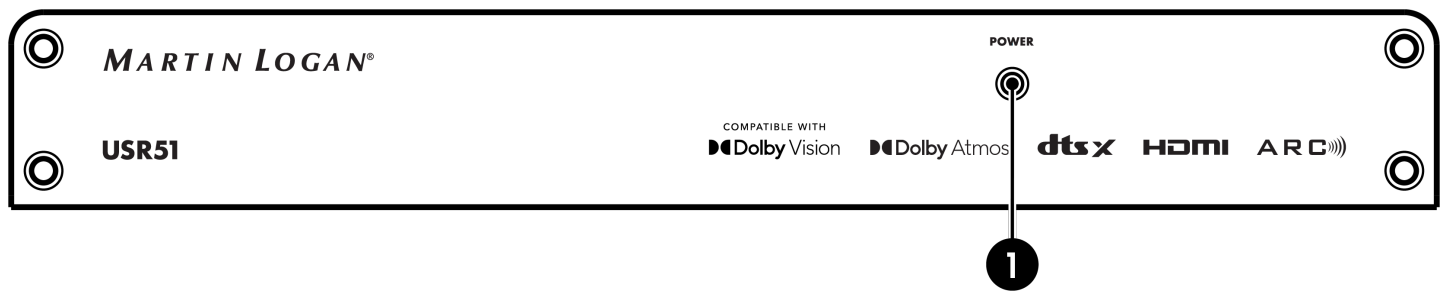
Check that you have received all items listed below and report discrepancies to your dealer as soon as possible. In case the unit needs to be transported in the future, keep the packing materials. Retain the invoice that you received from your authorized Anthem dealer at time of purchase – without it, service will not be provided under warranty.

- USR51
- Wall mount bracket
- Remote Control
- 2x Wireless Network Antennas
- 2x AAA Batteries (included with 120V Models ONLY)
- IEC Power Cord (US / UK / EU / AU types are supplied by factory, other types are normally provided by the local distributor)
- US power cord is supplied with the 120V model
- UK/EU/AU power cords are supplied with the 240V model
- External IR Receiver
- USB Microphone and mini USB to USB Type A cable
- Quick start guide
- 10-pin speaker terminal (attached to the unit)
- Stick-on rubber feet
- Warranty card

1.2 IN-USE NOTICES

- Disconnect the power cord before connecting or disconnecting any components.
- If the USR51 was transported or stored in the cold, let it reach room temperature before use.
- Due to continuing advances, operational characteristics may change. If this manual contains discrepancies please check www.MartinLogan.com for the latest manual or software.

1.3 FRONT PANEL



1. Power / Status LED and Front IR receiver

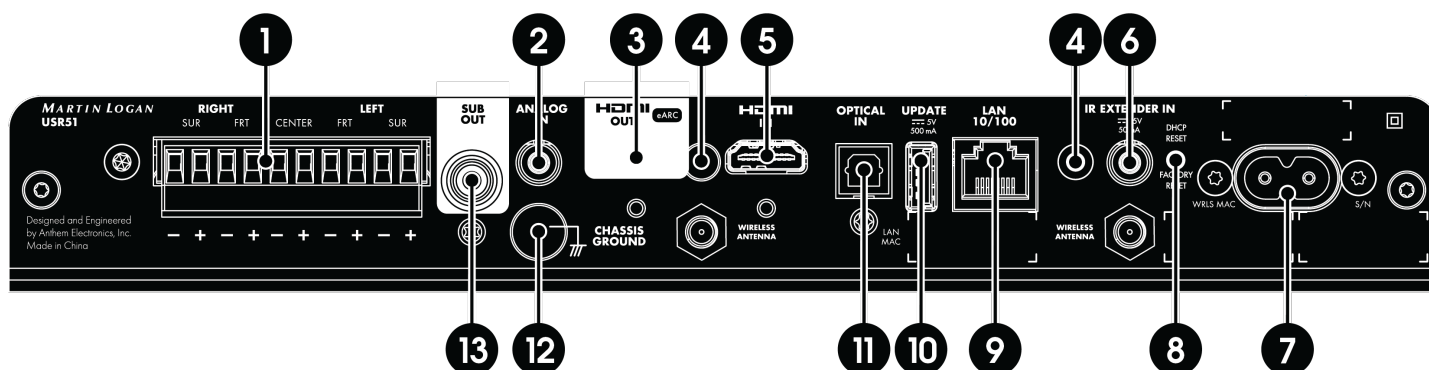
When the LED is solid Blue, this indicates the unit is powered on.

When flashing twice per second, this indicates the unit is in Bluetooth pairing mode.

When flashing once per second, this indicates the unit is in WAC (Wireless Accessory Configuration) mode.

When flashing rapidly two-to-three times, this indicates the unit has received and processed Infrared commands from the remote control.

1.4 REAR PANEL



1 – Detachable Euroblock speaker connection

2 – 3.5 mm (1/8") analog audio input jack

3 – HDMI output - Supports Audio Return Channel (ARC) and enhanced Audio Return Channel (eARC)

4 – Dual-band wireless antenna connectors

5 – HDMI input

6 – External IR input

7 – AC input. The label above shows the operating voltage for which the unit has been configured (120VAC or 240VAC)

8 – DHCP reset / Factory Reset button

9 – 10/100 local area network connection for IP control and Anthem Room Correction

10 – USB jack for factory service

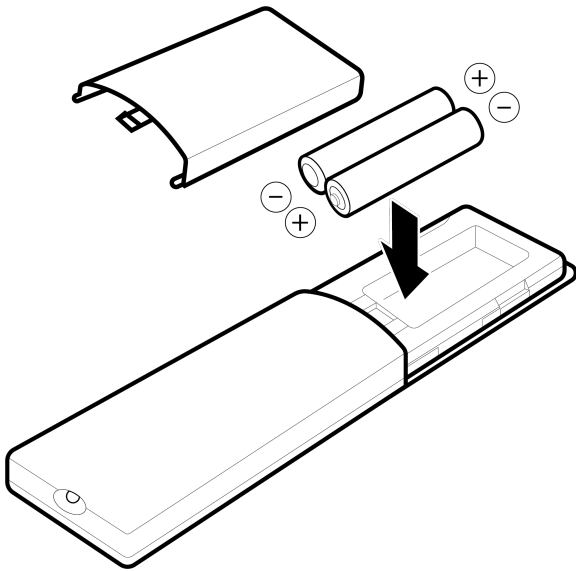
11 – Optical digital audio input

12 – Chassis ground screw

13 – Subwoofer output

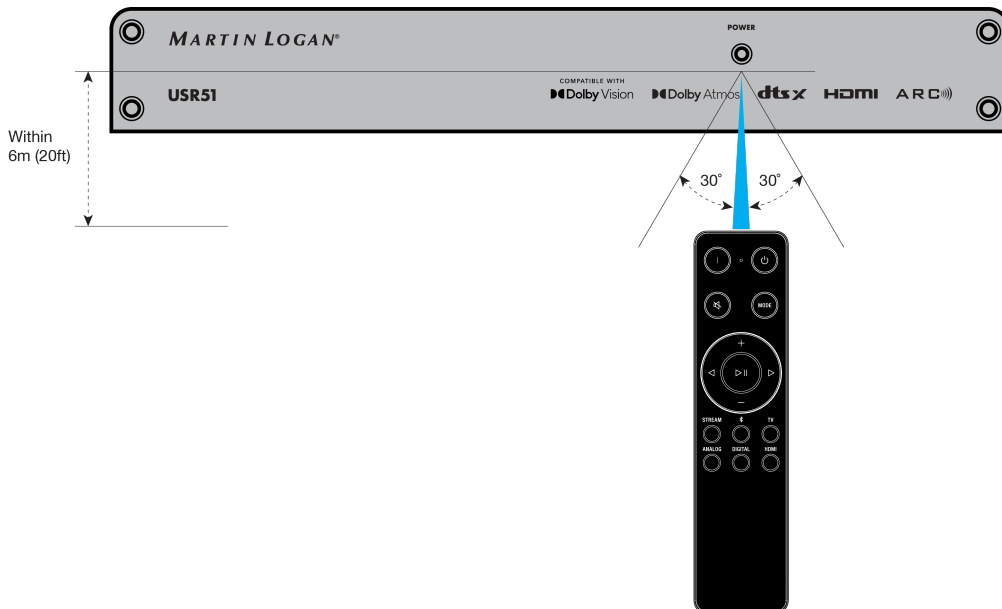
REMOTE CONTROL BATTERY INSTALLATION

Install two AAA alkaline batteries in the USR51 remote control in the directions shown in the illustration below. When replacing batteries, always replace both of them with fresh batteries and use high quality AAA alkaline type. If not using the remote for an extended length of time, remove the batteries from the remote to avoid acid leakage that may damage the remote.



REMOTE CONTROL RANGE OF OPERATION

The USR51 remote control operates best when used within the range and distance shown in the illustration below. The IR receiver is located below the Power label on the front panel. If the unit is not facing the listening position (for example, if the unit is mounted behind a TV or in wall), the external IR receiver (included with the accessories) can be used and mounted to face the listening position. Peel off the double-sided tape to affix the external IR receiver in place.



REAR AND FRONT IR INPUTS

If your remote control is not working and you have already checked the batteries, before contacting technical support, check that IR is set to "Front IR" if using the front panel IR or set to "Rear IR" if using the external IR extender in the Network / Control menu.

ANTHEM REMOTE CONTROL APP

A remote control app is available for free to iOS and Android users. To use this app, download it from the Google Play or Apple App Store, connect your USR51 to the same network as your iOS/Android device, and launch the app.

MOUNTING

Before connecting cables to the USR51, you should find a good spot for it in your entertainment system. Thanks to its small footprint and versatility, the unit can be mounted several ways:

1. In a cabinet by adding stick-on rubber feet under the USR51 (included in the accessories package).
2. Attached to the back of your TV, on the wall or inside a wall cabinet located between 2 studs, by making use of the universal mounting bracket (included in the accessories package). Install the mounting bracket first and then simply snap-in the USR51 in place.
3. In a 19-inch rack using the rackmount kit (available as an option). Remove the 4 screws at the front using a Torx T10 screwdriver and attach the rack mount plate by re-using the same screws.

1.5 SPEAKER POSITIONING

Your USR51 allows connection of up to six channels (5 speakers, 1 subwoofer). When setting up your speakers, care should be taken to achieve the best possible immersive audio experience. The factory defaults to a 5.1 speaker configuration: fronts/center/surrounds and subwoofer. The surround channels can be configured in the setup menu for a number of other configurations. Please read the setup section to take full advantage of all the features.

FRONT LEFT & RIGHT

The front speakers are what you hear when listening to 2 channel recordings but also play a large part in your home theater setup along with the centre channel playing the majority of content.

CENTER

The center channel is the most important speaker in a home theater system, as it reproduces almost all of the dialogue, and a large portion of the front speaker information.

SURROUND LEFT & RIGHT

Surround speakers reproduce the information that makes sounds wrap around your home theater space.

SUBWOOFER

With any surround sound system, you will need one or more high-quality subwoofers (the .1 in 5.1- or 3.1.2-channel surround systems). Most movie soundtracks contain large amounts of bass information as part of the LFE (Low Frequency Effect) track that sends information directly to your subwoofer. Good subwoofers will provide a foundation for the rest of the system, and add “weight” to movies and music.

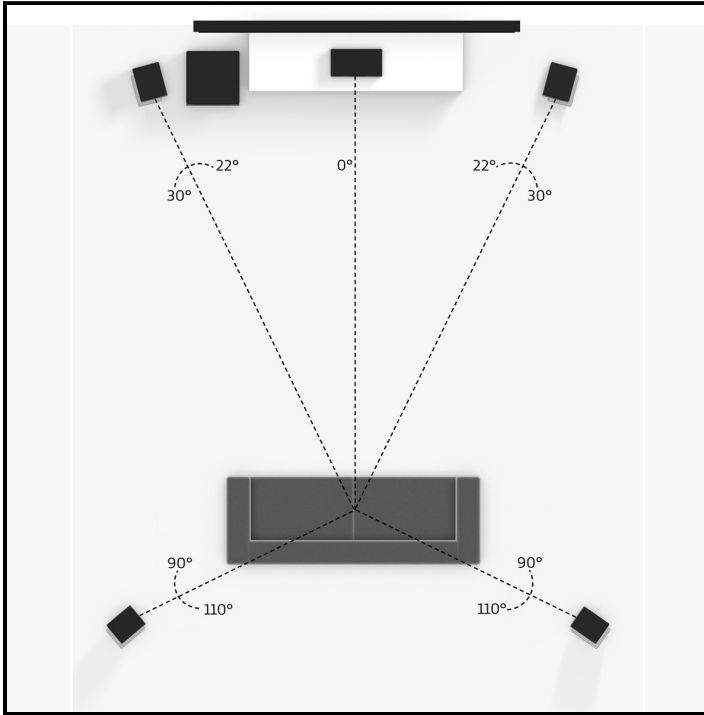
HEIGHTS

Up to two height speakers (the .2 and in 3.1.2-channel surround systems) can be connected to allow 3-dimensional Dolby Atmos and DTS:X surround sound. Height speakers reproduce the information that makes it sound as if planes are flying over your head and other similar effects.

Note that as the USR51 has only 5 speaker outputs, you need to select to either have surrounds or heights speakers.

1.6 5.1-CHANNEL SPEAKER POSITIONING

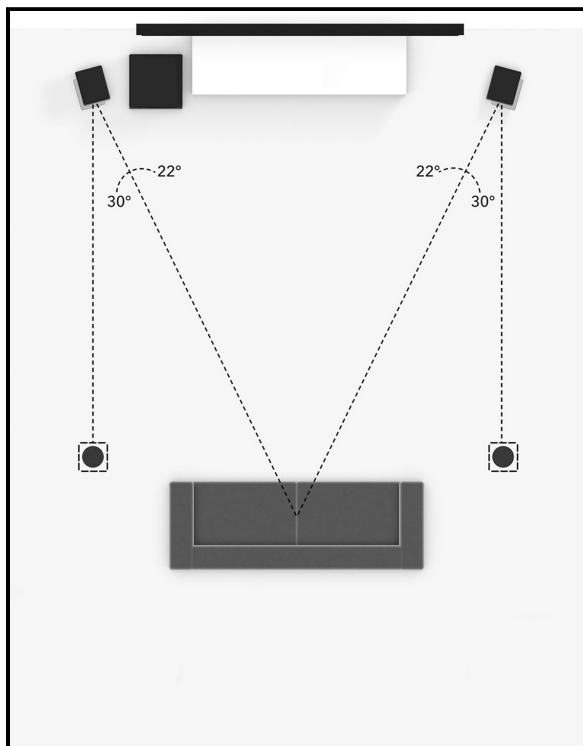
This illustration shows the recommended speaker placement for a 5.1 setup.



5.1 Configuration

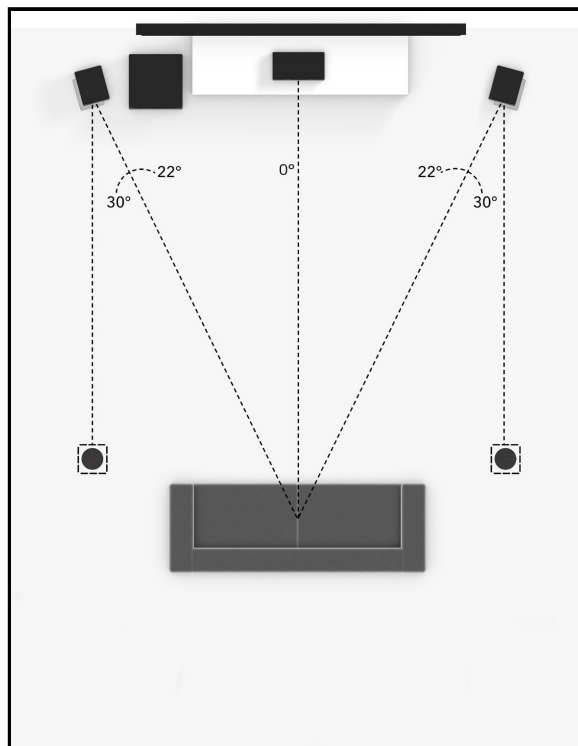
1.7 2.1.2 AND 3.1.2-CHANNEL SPEAKER POSITIONING

These illustrations show some possible speaker placements when using the surround channels as heights.



2.1.2 Configuration

with one pair in-ceiling height speakers

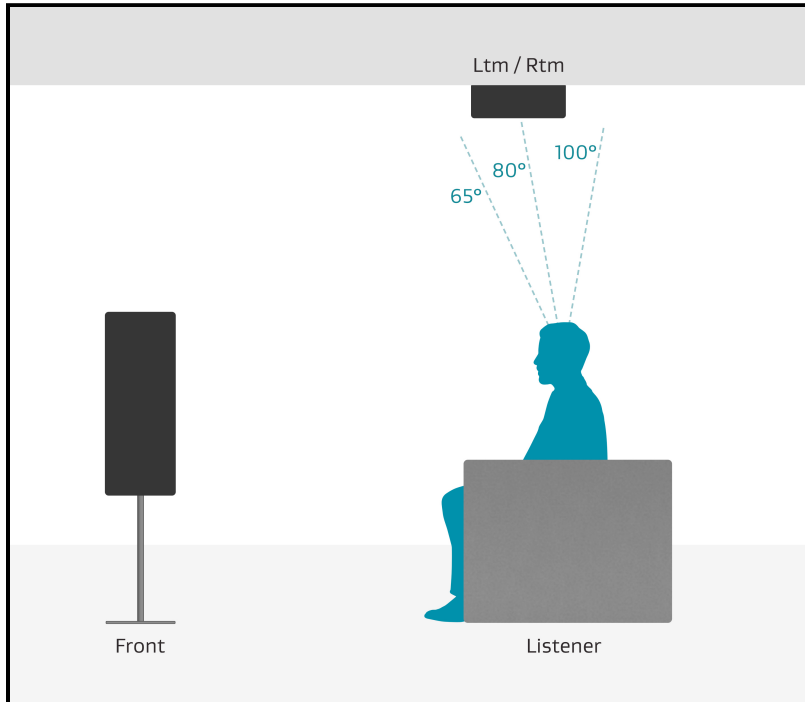


3.1.2 Configuration

with one pair in-ceiling height speakers

1.8 HEIGHT EFFECTS SPEAKER POSITIONING

This illustration shows recommended speaker placement when using middle channel height effects.



One pair in-ceiling height speakers (side view)

2.0 CONNECTIONS

2.1 HDMI VIDEO INPUT AND OUTPUT

This section describes connections between system components. Configuration of input and output will be discussed later, in section 3.

An HDMI connection carries video and audio signals together. Connect the HDMI output from the USR51 to a display with a HDMI input – one with the appropriate version of High-bandwidth Digital Content Protection (HDCP) is required to display copy-protected material.



Insert HDMI cables gently, as the connector is more delicate than traditional ones. Damaged cables can damage jacks, and the warranty does not cover jack replacement. Therefore, replacing HDMI cables is recommended if there is any chance of damage with the existing cable.

Use only certified High-Speed cables and HDMI equipment (such as switches, splitters, etc.). Cables and equipment that worked in an older setup may not necessarily be compatible with newer video formats such as Deep Color, UHD (Ultra High Definition), or high frame rates. If you are using adapters or port savers, start troubleshooting by eliminating them since they can affect bandwidth.

In order to use Audio Return Channel (ARC) or Enhanced Audio Return Channel (eARC), a Premium High Speed HDMI® Cable with Ethernet or Ultra High Speed HDMI® Cable is required.

2.2 AUDIO CONNECTIONS

HDMI AND OPTICAL DIGITAL AUDIO

Digital audio sources can be connected using an HDMI or optical cable. These connections can carry either linear PCM or bitstream (Dolby Digital, and DTS audio formats). An HDMI connection is generally preferred to ensure the use of lossless audio when sources provide it, although you can also use an optical connection for sources outputting 2-channel PCM, Dolby Digital 5.1, and DTS 5.1 without affecting audio quality.

HDMI ARC AND eARC AUDIO RETURN CHANNEL

If your television provides audio through HDMI ARC (Audio Return Channel) or eARC (Enhanced Audio Return Channel), for example, when it accesses streaming media sources, it can send the audio to the USR51, eliminating the need for a separate audio connection from the television.

If using ARC or eARC, ensure that CEC is turned ON on both the TV and USR51. If using eARC, ensure a Premium High Speed HDMI® Cable with Ethernet or Ultra High Speed HDMI® Cable is used to connect the TV to the USR51. In both cases, make sure to use the dedicated HDMI connector on your TV that supports ARC or eARC. On the USR51 CEC control is turned ON by default. You may also need to change the settings on your TV to select HDMI eARC or HDMI ARC for the audio output and set the digital output format to bitstream audio or pass through.

ANALOG AUDIO

If a digital output is not available from your source or if an additional source is desirable, the 3.5 mm (1/8") analog audio jack can be used as another source.

If HDMI audio from a Dolby Digital, DTS, or 2-channel PCM source is problematic, or takes too long to switch, we recommend the use of an optical or analog audio connection (you can still use HDMI for video). Older cable and satellite devices often benefit from this.

CONNECTING SUBWOOFERS

Although subwoofers are considered to be a speaker channel, they are generally self-amplified, and thus, connect in the same way you'd connect an external amplifier. Your USR51 features one subwoofer output.

SPEAKER CONNECTIONS

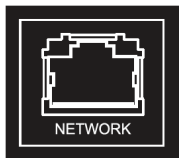
Remove the Euroblock connector by gently pulling away until it releases. Use a small slotted screwdriver to loosen and tighten each contact on the Euroblock when inserting the speaker wire (up to 12 AWG / 4mm²).

Identify which speaker wires connect to Front left/right, Surround left/right and Center speakers.

Connect the red (+) connection of the speaker to the positive (+) contact on the Euroblock connector, as indicated by the printing located on the USR51 (above the connector) and on the connector itself. Connect the black (–) connection of the speaker to the negative (–) contact on the Euroblock connector as indicated by the printing located on the USR51 (above the connector) and on the connector itself.

Do not connect more than one speaker to each speaker output on the Euroblock connector. Be sure to turn off the power when connecting or disconnecting anything. Only use speakers rated for use with the USR51.

2.3 LOCAL AREA NETWORK



Configuring Anthem Room Correction, streaming or using IP control requires a network connection. To use a wired network connection, connect your USR51 to a router using an Ethernet cable.



If using a wireless connection, connect the two included network antennas to the rear panel of the USR51. The setup section of this manual explains how to set up a wireless connection. Please note, if mounting the USR51 in a metal rack or in-wall enclosure, we recommend a wired network connection, especially if the wireless router is in a different room or if anything else can impact the signal strength.

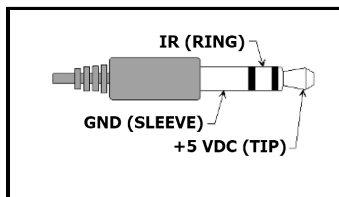
Wireless antennas are also required for a Bluetooth connection.

If using a firewall for security, ensure that the USR51 is permitted to join the network.

2.4 INFRARED



An external IR receiver allows the use of the remote control from another location in your home or if the unit is located behind a TV or in a wall. Turn OFF AC power from the unit and connect supplied IR receiver to the IR IN jack and affix in place by using the double-sided tape.



The external IR receiver is a powered style which is also commonly used with set top boxes. The pin-out is as follow:

SLEEVE: GND

RING: IR Signal

TIP: +5 VDC (supplied by USR51)

2.5 POWER



Insert the power cord into the USR51 AC input, and plug the cord into a wall outlet. Ensure that the AC supply matches the voltage rating shown above the AC inlet of the USR51. The 240V models support voltages from 220V to 240V. Route audio and video cables away from the power cord to reduce potential sources of hum and other interference.

2.6 CHASSIS GROUND



The USR51 is powered using a double-insulated power cord and therefore does not have an earth-ground connection to avoid hum. If an earth-ground connection is required, or if connecting to another chassis ground, you can connect a wire using the thumbscrew.

3.0 OPERATION

3.1 NETWORK SETUP

The USR51 does not have a traditional front panel with volume knob and display, but can be controlled using a traditional IR remote control, Anthem Remote App (iOS and Android available), web interface, via some custom home automation equipment (such as Crestron or Control4) and even other applications such as Spotify or Google Home. The unit can be controlled by all these control devices at the same time. For example, you can use the Spotify app to select your favorite play list and adjust the volume, and then use the USR51 remote to skip a track, or the Anthem Remote App to change the listening mode.

If you intend to only use the IR remote and streaming only via Bluetooth, no network connection is required. BUT you will need one to run the Anthem Remote App, access the setup parameters, perform an Anthem Room Correction, install software updates or stream audio from the internet.

We strongly recommend performing a network setup even if you intend on using your device offline (IR remote and streaming only via Bluetooth).

You can connect to your network in several ways:

1. Ethernet/LAN Connection: The simplest way to connect your USR51 to your network is by connecting it via an Ethernet cable to the LAN 10/100 port at the back of the USR51. This will provide the quickest setup, most secure and most reliable network connection.

2. Wi-Fi Configuration via Apple® iOS:

1. Enter your iOS device Wi-Fi Settings Menu.
2. During the first 15 minutes after applying AC power, the unit will enter WAC mode and will allow you to configure the wireless network using your iOS device. You can then locate your USR51 under "Set up new AirPlay speaker." The USR51 will be shown as "USR51-xxxxxx" in the list of available devices (where xxxxxx represents the last few characters of the LAN MAC ID, as shown at the back of the unit)
3. Select your USR51 unit and follow the instructions to connect it to your network.
4. Using the Anthem Remote application, complete your unit's First Time Setup.

3. Wi-Fi Configuration via Android:

1. Download the [Anthem Remote](#) application from the Play Store and launch it.
2. Tap "+ Add Device", then tap the arrow to proceed - you will either be directed to, or prompted to install the [Anthem Wi-Fi Setup](#) application.
3. Anthem Wi-Fi Setup will display a list of devices ready to be added to a network.
 1. The USR51 will be shown as "USR51-xxxxxx" in the list of available devices (where xxxxxx represents the last few characters of the LAN MAC ID, as shown at the back of the unit)
 2. Tap the "Wi-Fi Setup" button
 3. A list of Wi-Fi networks will be displayed. Tap the network you want to connect the USR51 to
 4. Enter the password for the network you selected and tap "Connect"
4. Once the USR51 is successfully connected to Wi-Fi, you will be brought back to the Anthem Remote application
5. Follow the steps to complete your unit's First Time setup

4. Wi-Fi Configuration via Web User Interface setup menu:

1. Connect the USR51 to your network using a wired Ethernet/LAN cable.
2. Setup a wireless connection by following the instructions shown in the SYSTEM SETUP – NETWORK SETUP – Wi-Fi CONFIGURATION section of this manual.
3. Disconnect the Ethernet/LAN cable. The unit will then connect to the wireless network automatically.

3.2 ANTHEM REMOTE APP OPERATION

The Anthem Remote App gives you full control of your USR51 and can be downloaded for free from the Apple or Google stores by looking it up using the keywords "Anthem Remote".

When starting the app, the welcome screen will show you available devices on the network. Selecting the USR51 will then show a screen with basic control such as volume and source/listening mode selection. Settings will give you access to the tone controls and various speakers level adjustments. Setup Menu will give you access to various system configuration settings.

More details about the setup that can be done via the app UI can be found in the SETUP (WEBUI & MOBILE UI) section.

3.3 WEB USER INTERFACE OPERATION

Controlling the USR51 can also be done using a browser on a device connected to the same network such as a smartphone, tablet or computer. The web interface lets you access the basic control as well as all system settings.

To access the USR51 web user interface, you will first need to identify the IP address of the USR51. This can be found in various ways, but the easiest are as follow:

Using the Anthem Remote App: When starting the app, the IP address of the unit will be shown in the opening screen. If the main screen is shown, simply click on "Discovery" to return back to the opening screen. Once you know the IP address of the unit, you can use a browser such as Safari or Google Chrome to access the web interface by typing the IP address into the URL bar.

Using File Explorer: If using a Windows PC, start File Explorer and click on "Network". The USR51 will be shown under Media Devices. Double-clicking on the USR51 icon will open your web browser and will access the unit. The IP address will be shown in the URL bar that can be used in the future.

Using a network scanner: You can use a network scanner such as Fing or Angry IP Scanner to discover the USR51 IP address.

Using ARC Genesis: You can discover the USR51 IP address using the ARC Genesis software. Start the ARC Genesis program on a PC or Mac, click on Launch ARC, hover your mouse cursor over the USR51, wait for a few seconds and a pop-up will show more details, including the IP address of the device.

3.4 TRADITIONAL REMOTE CONTROL OPERATION

Controlling the USR51 can also be done using the IR remote included in the accessory package.

1 – Power on

2 – LED - Flashes when a key is pressed. The LED stops flashing indicates that the batteries are not inserted properly or that the batteries are drained.

3 – Standby

4 – Mute

5 – Listening Mode

6 – Navigation Controls - The left/right buttons select the previous/next track. The center button acts as a Play/Pause button. The up/down buttons control the volume.

Input Source Selection

7 – Stream

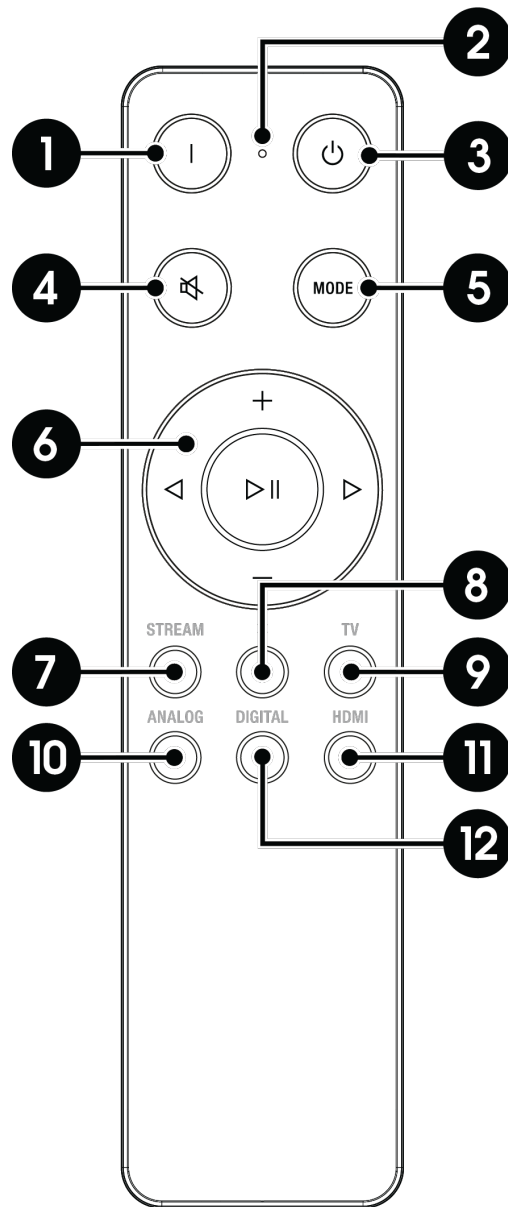
8 – Bluetooth

9 – TV (ARC or eARC)

10 – Analog

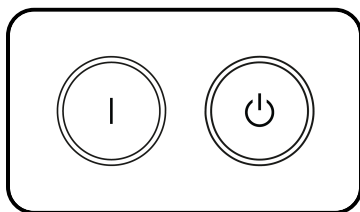
11 – HDMI

12 – Digital (Optical)

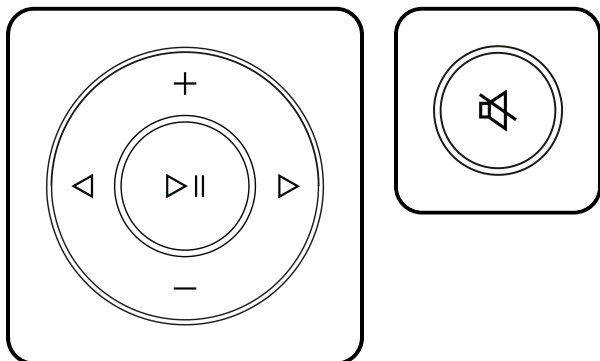


3.5 POWER ON / STANDBY AND VOLUME

The remote uses dedicated ON and Standby buttons to turn on and off the unit. When turning on the unit, the volume will be set to either a specific level or to the last volume value. This can be modified in the setup menu.

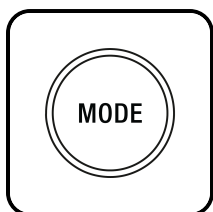


To control the volume, press the + and - on the remote navigation keys. To mute or un-mute the audio, press MUTE.



3.6 LISTENING MODES (MODE BUTTON ON REMOTE CONTROL)

Refer to the Input Setup section for a description of listening modes. If you wish, you can toggle to the next selection by pressing the MODE button.



3.7 INPUT SELECTION

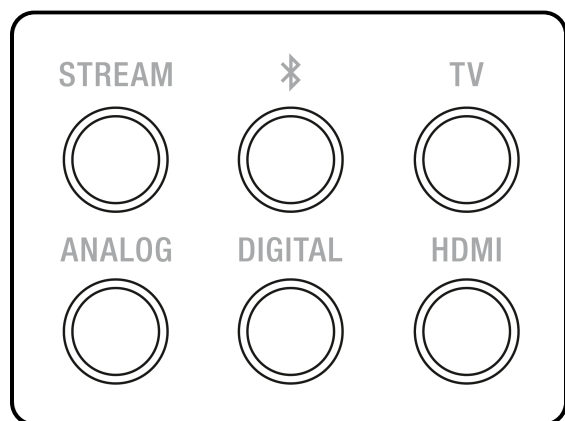
The number of active inputs varies according to how the Input Setup menu was programmed. By default, 6 inputs are defined and are mapped to the source keys on the remote. If more inputs are defined (up to 30 virtual inputs can be defined) pressing the source key another time will switch to the next virtual input using the physical connector. If a connector is used for more than one virtual input, pressing the remote source button another time will select the next virtual input which also makes use of this connector (and will eventually cycle around to the first one). If switching from a different source, the first virtual input making use of this connector will be selected.

For example, if you have defined a virtual input labeled “TV-late” (using the HDMI connector eARC/ARC for audio input and a speaker profile without a subwoofer), pressing the TV button the first time will be using the default TV input, but pressing it a second time will be using TV-late. If selecting another input (such as Digital), and then selecting TV will revert to the first input attached to your TV.

The STREAM input is automatically selected when starting the audio from your player, whether you are streaming via AirPlay, Google Cast or using an application such as Spotify. If the unit is in standby, it will turn on automatically.

The Bluetooth input (shown on the remote with the Bluetooth logo) works similarly, but pairing your device with the USR51 needs to be done first. Refer to the “Streaming via Bluetooth” section below for details.

When defining multiple virtual inputs, using the Anthem Remote App or the web interface is recommended for ease of use.



The USR51 factory defaults for the 6 inputs are configured as follow:

SOURCE	AUDIO INPUT	VIDEO INPUT
HDMI	HDMI	HDMI
TV (ARC/eARC)	TV (ARC/eARC)	None
Streaming	Streaming	None
Bluetooth	Bluetooth	None
Digital (Optical)	Optical	None
Analog	Analog	None

The virtual inputs that give you complete control of the name of each input you create, along with whether video (HDMI) will be used, which audio input (HDMI, digital, analog, streaming, or Bluetooth) to use, which speaker profile to use, and much more. For information on setting up inputs, refer to the Setup section of this manual.

The input source selection buttons will select the input while simultaneously triggering a power-on if the unit is in standby.

3.8 STREAMING VIA AIRPLAY

To listen to audio via AirPlay on your USR51, ensure your Apple device is connected to the same network as the USR51 and simply select it as the AirPlay audio playback device.

Note: The USR51 will appear as the device name defined in the General Settings in the AirPlay speaker menu. The factory default for the USR51 name is “USR51-xxxxxx” (where xxxxxx represents the last few characters of the LAN MAC ID, as shown at the back of the unit).

3.9 STREAMING VIA GOOGLE CAST

1. To listen to Cast audio from any supported application on your USR51, ensure your device is connected to the same network as the USR51 via either a wired or wireless connection. Google Cast will only work if the First Time Setup has been performed on the USR51 and Google Terms of Service and Privacy Policy have been accepted.
2. Tap the Cast icon from within the application and select the USR51 as the playback device. The factory default for the USR51 name is "USR51-xxxxxx" (where xxxxxx represents the last few characters of the LAN MAC ID, as shown at the back of the unit).

If you have declined the Google Terms of Service and Privacy Policy during First Time Setup, you may review your choice by following these steps:

Anthem Remote Application:

1. Launch the Anthem Remote Application and connect to your USR51
2. Tap "Settings"
3. Tap "Setup Menu", then Tap "Services"
4. Under Google Cast, Tap "Activate Cast"
5. Follow the on-screen instructions

Web User Interface:

1. From a web browser, connect to your USR51
2. Click the "Services" menu option
3. Under Google Cast, click "Activate Cast"
4. Follow the on-screen instructions

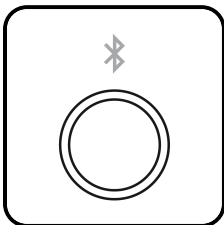
3.11 STREAMING VIA BLUETOOTH

Bluetooth connection requires both wireless antennas to be attached to the USR51 and requires your device to first be paired. Select the Bluetooth input to enter pairing mode (the front panel power LED will flash blue). The front LED of the USR51 will start double-flashing indicating that pairing is in progress. Access the Bluetooth pairing screen on your device to select the USR51 and initiate the connection. Once the link is established, the front LED will turn back solid blue. The USR51 shown in the available Bluetooth devices will be advertised as the device name defined in the General Settings.

The factory default for the USR51 name is "USR51-xxxxxx" (where xxxxxx represents the last few characters of the LAN MAC ID, as shown at the back of the unit). This pairing process need only to be done once.

Once paired, streaming audio via Bluetooth works the same as streaming using other method such as AirPlay or Google Cast. On your device, select the USR51 as the Bluetooth audio playback device and start streaming to it. The USR51 will automatically switch to the Bluetooth input and will even turn on if in standby.

Note that when you switch off your Bluetooth device, walk away or change inputs to a different source, the USR51 will lose the connection. You will need to re-select the USR51 in your device's Bluetooth/Audio picker in order to reconnect.



3.10 STREAMING VIA SPOTIFY CONNECT

Use your phone, tablet or computer as a remote control for Spotify.

Go to spotify.com/connect to learn how.

4.0 SETUP (WEBUI AND MOBILE UI)

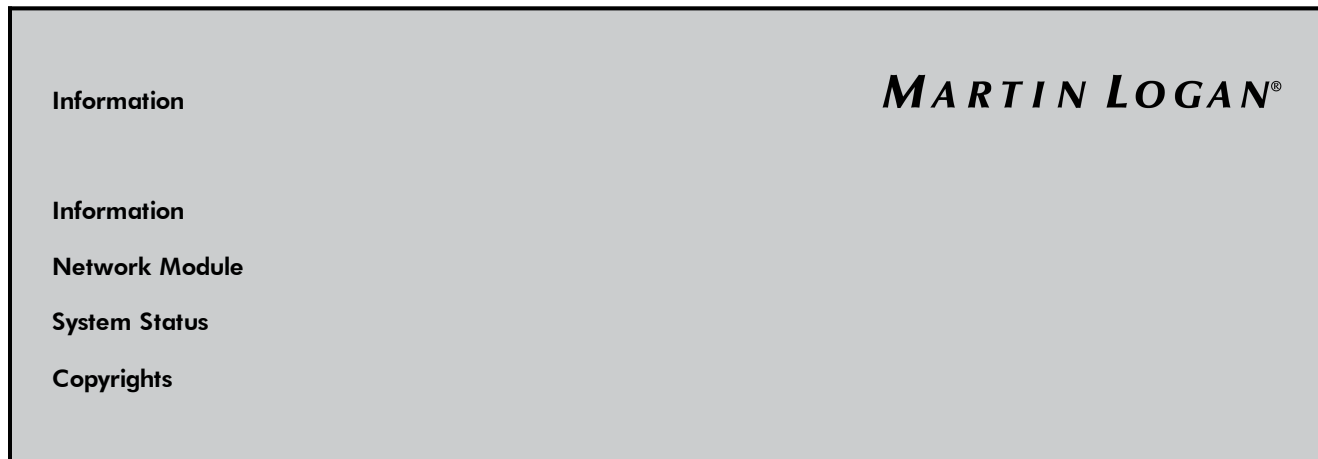
4.1 INFORMATION PAGE

Controlling and accessing setup parameters of the USR51 can be done using a browser on a device connected to the same network such as a smartphone, tablet or computer. To access the USR51 web user interface, you will first need to identify the IP address of the USR51. Refer to the OPERATION section for details.

The Anthem Remote App can also be used to access the mobile UI. The app does not need any IP address and will discover the USR51 on your network. Setup can be done by clicking on Settings and then accessing the Setup Menu.

WEBUI info page is accessed by clicking on the icon of the USR51 from the left toolbar, this page is used for viewing information about your USR51's hardware and software versions as well as network, system status and copyrights. No information can be changed here, just viewed.

MOBILE UI info page is accessed by clicking on the Anthem logo on the top left corner of the Setup Menu screen. This page is used for viewing basic information about your USR51's and app software versions. No information can be changed here, just viewed.



INFORMATION

View general information about your USR51, including firmware versions and serial number.

NETWORK MODULE

View all network related information.

SYSTEM STATUS

View all information related to incoming audio and video signals. Note that this section displays what is being sent as a description, and can be potentially incorrect.

COPYRIGHTS

View copyrights of open source projects.

4.2 QUICK ACCESS

Quick access to the volume, source selection, listening mode, tone control and speaker trims are shown in a single page for the web UI. The Anthem Remote App splits this in 2 screens: the tone control and speaker trims are accessed by clicking on Settings. Access to the Setup Menu via the app is also done by clicking on Settings.

MAIN ZONE



AUDIO

Control the basics of your USR51 from this page. Power On/Off, change volume and inputs from here.

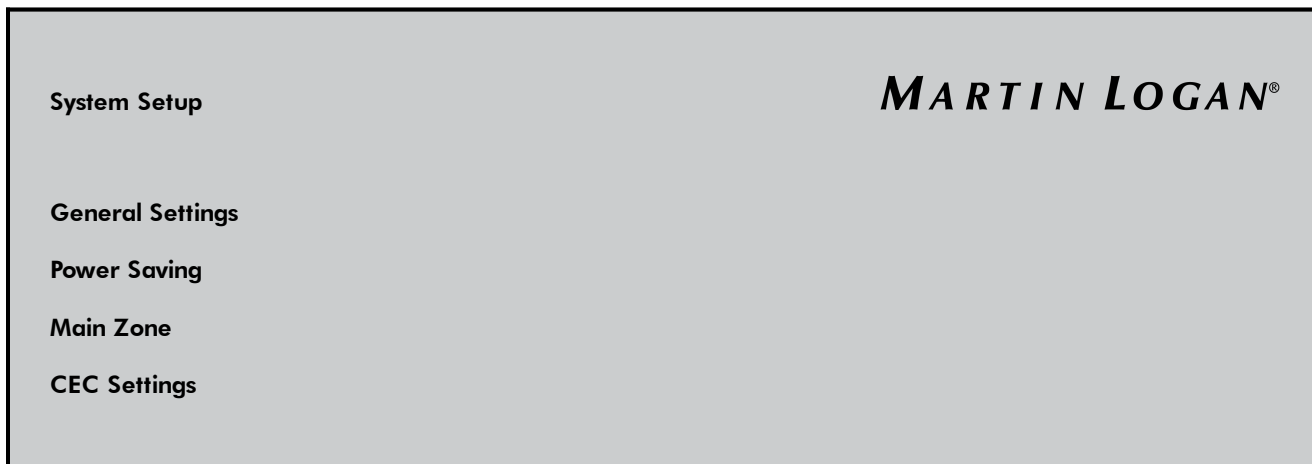
LEVELS

Set levels for individual speakers, as well and/or tone controls such as Balance, Treble and Bass.

NOW PLAYING BAR (WEBUI ONLY)

Control playback when Streaming input is active. Allows for transport controls (Play, Pause, Next, Previous) depending on the streaming service's capabilities. This option will only appear in the Main Zone window when the current input is set to Streaming or Bluetooth.

4.3 SYSTEM SETUP – GENERAL SETUP



GENERAL SETTINGS



DEVICE NAME

Allows you to change the name of the unit. This will also help to identify units in ARC and different streaming platforms. The factory default for the USR51 name is "USR51-xxxxxx" (where xxxxxx represents the last few characters of the LAN MAC ID, as shown at the back of the unit).

AIRPLAY DEVICE NAME

Displays the unit's AirPlay name. This appears **ONLY** when the device is renamed through the Apple Home application.

AIRPLAY PASSWORD

Set the optional password to access the device through AirPlay.

LANGUAGE

Set the language you would like the web user interface to appear in.

DISTANCE UNITS

Choose between imperial and metric versions of measurement.

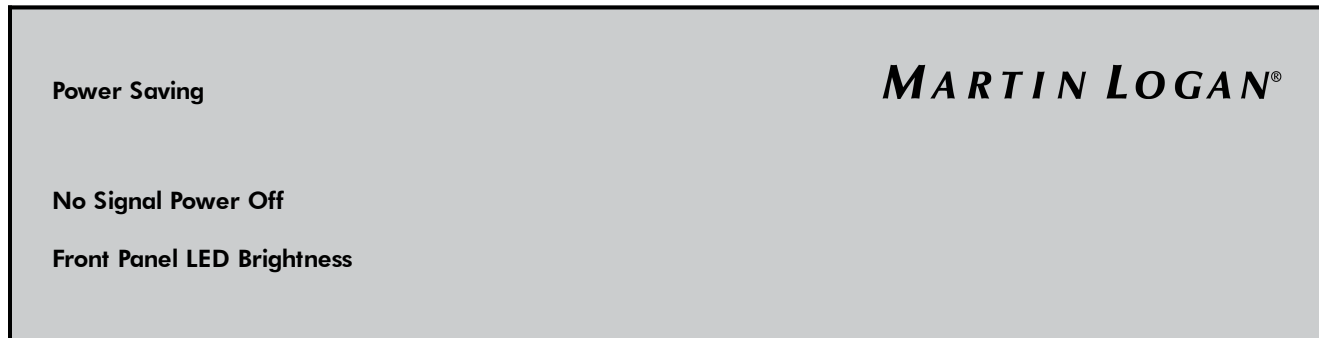
MASTER VOLUME SCALE

By default, this is set to "dB" which is common for most modern receivers. "dB" references the volume trim of the incoming signal where "0.0 dB" is the unaltered signal coming in from a source. While this is the standard, it can be confusing for new users. "%" offers a volume scale of 0-100, which is standard for computers, televisions and most sources.

STANDBY HDMI BYPASS

Passes the HDMI input directly to the display while the unit is in Standby mode.

POWER SAVING



NO SIGNAL POWER OFF

When there is no input signal, the USR51 turns off after the selected time: 5, 10, or 20 minutes, 1, 2, or 6 hours, or "Never." The default setting is 20 minutes.

FRONT PANEL LED BRIGHTNESS

Set the brightness of the front indicator from maximum to dim or completely off.

MAIN ZONE



POWER-ON VOLUME

This setting controls the volume level to use when powering on the USR51 from standby mode. To power-on at the last used volume, select "Last Used" by changing the value to less than -90.

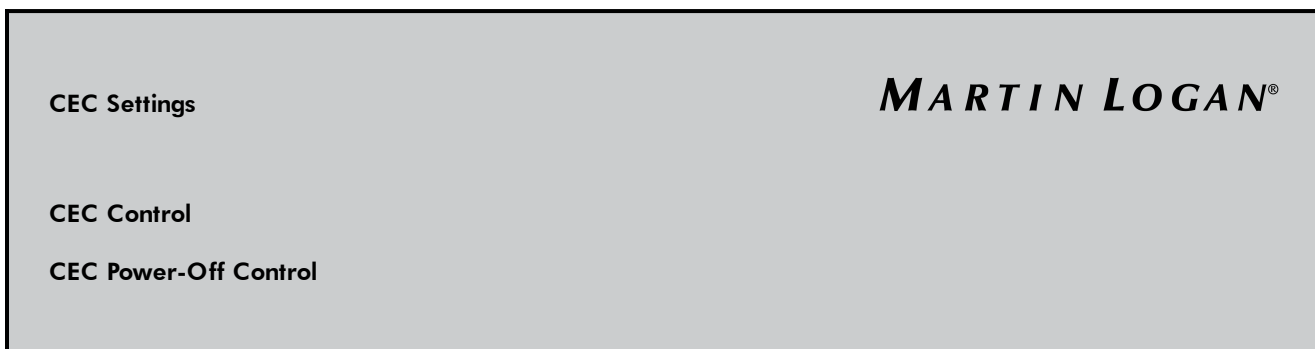
MAXIMUM VOLUME

This setting allows you to limit the maximum volume output of the USR51 to avoid damaging equipment or hearing.

POWER-ON INPUT

This setting controls which input to use when first powering on the USR51. Select from one of the available inputs or "Last Used."

CEC SETTINGS



CEC CONTROL

With CEC enabled, Consumer Electronics Control (CEC) allows controlling an HDMI-connected component using another brand's remote control (as long as the other components have CEC enabled). Note that when components are from different brands, this control system may not be reliable.

CEC Control must be enabled if ARC or eARC are utilized. Note that CEC Control is enabled by default and that reloading factory defaults will turn it on.

CEC POWER-OFF CONTROL

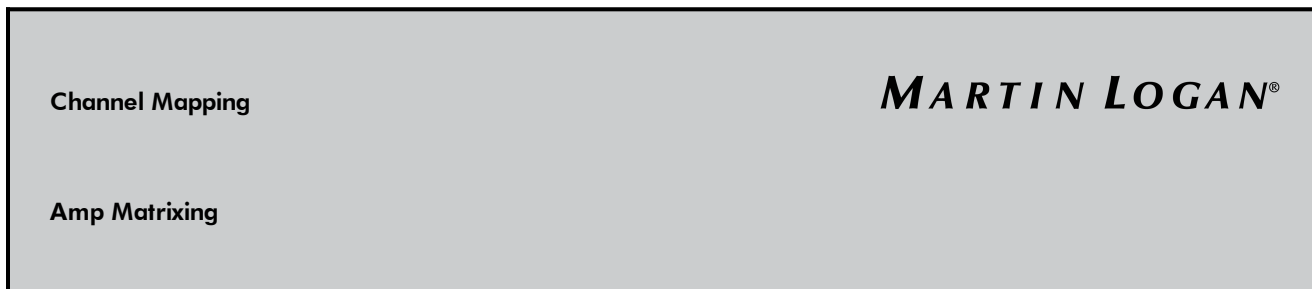
Allows connected devices to set the USR51 in standby mode.

With CEC, turning on (or off) one component in the system can turn on (or off) the rest of the system. You may or may not want this, which is why we provide separate options for CEC Power Off Control. When either setting is disabled, the USR51 ignores corresponding power Off commands sent by other HDMI-connected components.

4.4 SYSTEM SETUP – SPEAKERS SETUP



CHANNEL MAPPING



AMP MATRIXING

Amp matrixing is where you assign the surround channels to their desired function.

1. Select amp matrixing for surround speakers for a standard 5.1 speaker configuration.
2. Select Front (Bi-Amp) to use the surround channels to drive your fronts L/R speakers in bi-amp mode.
3. Select any of the other speaker configuration (e.g. Front In-Ceiling or Front Dolby) if using a 3.1.2 speaker configuration.

When the surround channels have been re-mapped to a different channel, the name of the actual channel will be shown. For example, if Dolby Front has been selected for the surround output, when setting the distance, level, or crossover, the label “Surround” will be replaced by “Front Dolby” in the user interface. For ease of readability, the manual refers to Surround in the Speakers Setup section.

Note that the function of the surround channels applies to all 4 channel profiles.

SPEAKER PROFILES (1-4)

The use of one speaker profile is suitable for most systems. However, the USR51 allows up to four unique profiles with unique speaker selections, bass management, listening position, level calibration, and Anthem Room Correction (ARC) equalization values. Multiple speaker profiles are useful if your listening room varies according to predictable soundaltering characteristics such as screen up versus down, a door open versus closed, or stereo listening for music vs. home theatre.

Speaker Profiles	<i>MARTIN LOGAN</i> ®
Profile Name	
Calibration Level	
Test Noise	

PROFILE NAME

Each profile can be renamed, with up to 64 ASCII characters, fewer if other-language letters with accents are used.

CALIBRATION LEVEL

This setting adjusts the volume for this menu's test noises. It changes the output of all channels.

TEST NOISE

To play the test noise, use the pull-down menu to select the desired channel or None to turn it off. While the test noise is playing, you can balance the level of individual channel by adjusting them in the Levels (see below).

SPEAKERS ON / OFF

Speakers On / Off	<i>MARTIN LOGAN</i> ®
Subwoofer / Center / Surround	

SUBWOOFER / CENTER / SURROUND

Activate output to the speakers, note that the Front Left/Right cannot be turned off. The subwoofer output will not function unless it has been indicated that a subwoofer is present. If using a subwoofer, this should be enabled prior to running ARC.

SPEAKER DISTANCES

Speaker Distances

MARTIN LOGAN®

Subwoofer / Front Left / Front Right / Center / Surround Left /
Surround Right

SUBWOOFER / FRONT LEFT / FRONT RIGHT / CENTER / SURROUND LEFT / SURROUND RIGHT

Adjust the distance from the primary listener position to individual speakers. If running ARC, let it set the distances for you.

SPEAKER LEVELS

Speaker Levels

MARTIN LOGAN®

Subwoofer / Front Left / Front Right / Center / Surround Left /
Surround Right

SUBWOOFER / FRONT LEFT / FRONT RIGHT / CENTER / SURROUND LEFT / SURROUND RIGHT

If you're calibrating by ear, use the Web User Interface, and sit in the listening area. Adjust each channel's loudness until all levels sound the same. If using a SPL meter, adjust the level until it reads 75 dB for each channel. If Front Left was at 0dB when you set Calibration Level, then no adjustment of Front Left is necessary. If using a powered subwoofer, adjust the sub's built-in level control before setting the subwoofer level in this menu or using ARC. Speakers set to "Off" in the Bass Management menu can not be adjusted. Note that if ARC has been used to set levels and is then turned off, the subwoofer level should be reduced by the same amount as room gain, or else you'll hear elevated subwoofer output.

SUBWOOFER

Subwoofer

MARTIN LOGAN®

Phase Frequency

Phase

Polarity

PHASE FREQUENCY

Phase Frequency allows you to select at which frequency the phase shift is applied (generally the same frequency as the crossover).

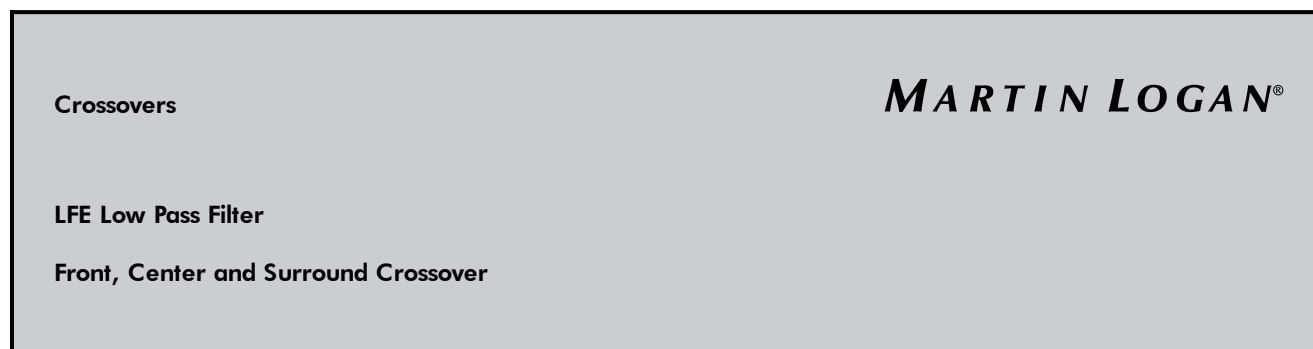
PHASE

Adjusts the phase of the subwoofer relative to the main channels. Phase is adjustable from 0-180 degrees. If a value higher than 180 degrees is required, adjust Subwoofer Phase in combination with Sub Polarity for a full 360-degree range of adjustment. When using ARC, this value is automatically set using the Automatic Phase Adjustment tool.

POLARITY

Adjusts the polarity of the subwoofer to either 0 or 180 degrees. When selecting 180 degrees, the subwoofer signal is inverted when compared to the main channels. As a general guide, set Phase and Polarity to 0 if the subwoofer is near the front speakers and set Phase to 0 and Polarity to 180 if the subwoofer is near the back of the room. When using ARC, this value is automatically set using the Automatic Phase Adjustment tool.

CROSSOVERS



LFE LOW PASS FILTER

Sets the Low Pass Filter (LPF) frequency for Low Frequency Effects (LFE).

FRONT, CENTER AND SURROUND CROSSOVER

Sets the crossover point between the subwoofer channel and the selected speaker(s). This value will be set by ARC. If the crossover value changes to a number other than the default selected by ARC, you must modify the crossover setting in ARC and recalculate and upload. These crossover values should only be adjusted if ARC has not and will not be run.

4.5 SYSTEM SETUP – INPUTS SETUP

The USR51 has by default 6 inputs but up to 30 virtual inputs can be defined. This allows you to quickly change a number of parameters by simply selecting an input. For example, you may want to create a late night listening mode by selecting a speaker profile with no subwoofer and Dolby Audio Post-Processing set to Night mode.



INSERT BEFORE INPUT

Create a new input, and specify its location within the input list.

ADD INPUT

To add a new input at the end of the list, highlight and press "Add Input".

DELETE INPUT

To delete an input, click on the X on the top right corner and click on OK to confirm. Note that the currently selected input CANNOT be deleted.

INPUT NAME

Each input can be renamed, with up to 64 ASCII characters, fewer if other-language letters are used.

VIDEO INPUT

Select whether HDMI video will be enabled or not.

AUDIO INPUT

Select the connection to use: HDMI, TV (ARC/eARC), Streaming, Bluetooth, Digital (Optical), Analog or None.

If HDMI is selected as the Video Input, the only possible option for the Audio Input is HDMI.

When an audio source is selected for more than one virtual input, pressing the remote control source button multiple times may be required to select the desired virtual input. Refer to section 3.4.3 INPUT SELECTION for more details.

SPEAKER PROFILE

Select the profile to use with this input. This is where you can select previously made speaker profiles for different situations, such as 5.1 vs. 2 channel.

AUDIO MODE PRESET

A listening mode is processing that enhances source material by increasing the number of output channels. Each available mode performs this differently, providing a unique type of sound. To find your preference, spend some time listening to various modes using various sources. To disable presets and make selections entirely on the fly, select "Last Used." To disable listening modes altogether, select "None."



NONE

When the Audio Mode is set to None, no up-mixing is applied.

AUTOMATIC

When set to Automatic, Dolby Surround will be selected when Dolby encoded material is received and DTS Neural:X will be selected for DTS encoded material, otherwise None will be selected.

LAST USED

When set to Last Used, the Audio Mode that was in effect the last time you have selected this input will be re-applied.

ANTHEMLOGIC – CINEMA

AnthemLogic-Cinema lets you experience full impact home theater sound from any 2-channel source. This mode creates an extensive, enveloping, and dynamic listening experience, making 2-channel movies sound more like a state-of-the-art movie theatre. Through extensive listening tests, Anthem engineers developed this proprietary mode avoiding the use of echo effects, which could negatively affect the purity of the sound.

ANTHEMLOGIC – MUSIC

AnthemLogic-Music enhances the stereo listening experience without detracting from the stereo soundstage. This mode is also a minimalist design that uses no echo or reverberation effects. To ensure that the purity of the stereo music soundstage is not compromised when you're sitting in the "sweet spot" listening to your favorite stereo recordings, this mode uses no center channel.

DOLBY SURROUND

Dolby Surround up-mixes all stereo, 5.1, and 7.1-channel content to take full advantage of all speakers in a Dolby Atmos system. Unlike previous wideband upmixing technologies, Dolby Surround can steer frequency bands individually, producing surround sound with precisely located audio elements and a spacious ambiance. Dolby Surround replaces the Dolby Pro Logic II family of upmixers, offering greater flexibility and superior audio performance.

DTS NEURAL:X

DTS Neural:X is an upmixer using a spatial remapping engine to deliver pristine audio and provide immersive audio experience by making use of the speakers defined in your speaker profile.

ALL CHANNEL STEREO

All Channel Stereo mode sends the left and right channels to the surround channels with equal loudness while the center channel and subwoofer receive a combination of both.

MONO

MONO sums all the channels and sends it to the center channel. All other channels are muted.

ALL CHANNEL MONO

All Channel Mono sums all channels and distributes an identical signal across all speakers. The only difference between each signal speaker will be determined by their crossover setting and therefore how much bass each will play.

ANTHEM ROOM CORRECTION

The ARC measurement process, described later, automatically turns this On. To disable room equalization afterward, change this to "Off." If room correction isn't loaded, "N/A" is displayed. This toggle is only available after performing a room calibration with ARC Genesis.

DOLBY AUDIO POST-PROCESSING

Select "Music", "Movie", "Night" or "None." Dolby Volume makes content with significant differences in volume easy to listen to by analyzing it and intelligently adjusting two things— level and frequency response. It does this continually without causing pumping and breathing artifacts that are common with traditional dynamic range compressors. In doing so, the volume setting is taken into account, as is our hearing's declining sensitivity to the lowest and highest frequencies relative to the midrange as their levels drop. The result is that the perceived frequency response remains constant while making quieter parts of the content more listenable.

DOLBY SPEAKER VIRTUALIZATION

Dolby Atmos height virtualization is a digital signal processing solution from Dolby to create the sensation of overhead sound from your system's available speakers. Dolby Speaker Virtualization is enabled by default on the USR51 but only takes effect for Dolby Atmos-enabled content.

DOLBY DYNAMIC RANGE CONTROL

When disabled, the signals are played back at the original volume: quiet signals remain quiet and loud signals remain loud. Enabling DDR compresses the volume difference and increases the overall volume. The audio is easier to hear, regardless of the dynamic range of the sound source. When set to Automatic, the encoding of the input signal is used to determine which processing to use.

DTS DYNAMIC RANGE CONTROL

Similar to Dolby DRC by minimizing the volume differences, but offers 2 levels that can be selected: medium and maximum.

DTS DIALOG NORMALIZATION

Adjust the sound level to compensate for Dolby vs DTS encoded material.

LIP SYNC

If you hear the audio before seeing its corresponding image, you can set up to five hundred (500) milliseconds of audio delay. Set this using trial and error or, a synchronization test disc. Movies are not always the best test because sounds, including dialog, are usually rerecorded after the filming is completed, and can be slightly out of sync at various points in the recording.

INPUT TRIM

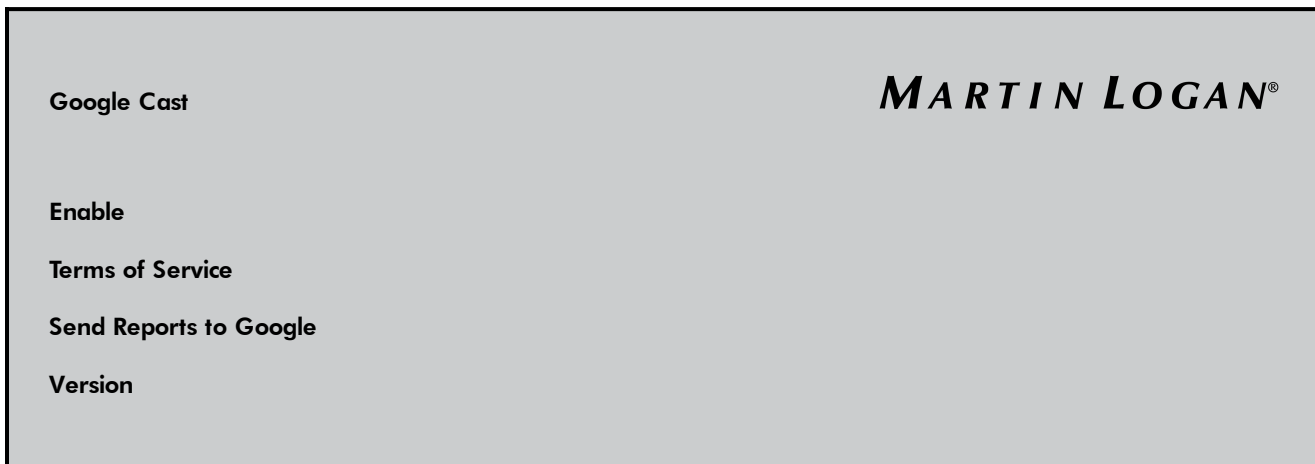
If your inputs have varying degrees of volume output, you can normalize them by setting your input trim per input. This offers both + and - options for input trim, but it is recommended to set your quietest input at 0.0 dB and normalize your louder ones around that by trimming them down.

As an example, if you find the streaming services are louder than the analog input, adjust the Streaming input trim level down to the level of the analog input level.

4.6 SYSTEM SETUP – SERVICES



GOOGLE CAST



ENABLE

This setting controls whether Google Cast is enabled on your USR51. When turned off, the USR51 will not appear in your list of Cast-enabled devices.

TERMS OF SERVICE

This field displays whether or not Google's Terms of Service and Privacy Policy have been accepted. Accepting Google's Terms of Service and Privacy Policy are a requirement for using Google Cast.

If you did not accept the Terms of Service and Privacy Policy during your USR51's First-Time Setup, you may review it by clicking the "Activate Cast" button.

SEND REPORTS TO GOOGLE

This option allows you to Opt-In or Out from sending device usage and crash reports to Google.

VERSION

This field displays the current version of the Google Cast for Audio receiver application running on your USR51.

AIRPLAY

AirPlay	<i>MARTIN LOGAN®</i>
Enable	
Version	

ENABLE

This setting controls whether AirPlay is enabled on your USR51. When turned off, the USR51 will not appear in your list of AirPlay devices.

VERSION

This field displays the current version of the AirPlay application running on your USR51.

SPOTIFY

Spotify	<i>MARTIN LOGAN®</i>
Enable	
Version	

ENABLE

This setting controls whether Spotify Connect is enabled on your USR51. When turned off, the USR51 will not appear in your list of Spotify Connect devices.

VERSION

This field displays the current version of the Spotify Connect application running on your USR51.

BLUETOOTH



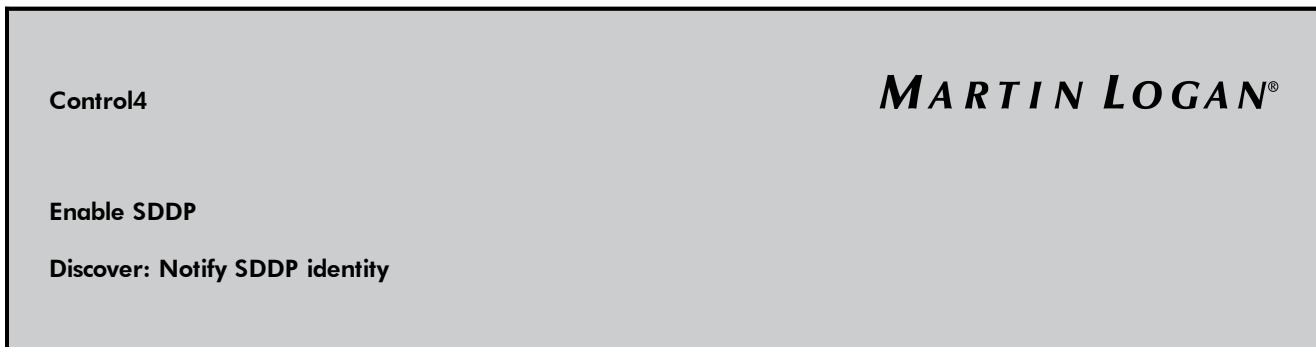
ENABLE

This setting controls whether Bluetooth is enabled on your USR51. When turned off, the USR51 will not be discoverable or available for Bluetooth audio even if the Bluetooth input is selected.

CONTROL4



As a Connects with Control4 Certified product, the USR51 implements Control4's Simple Device Discovery Protocol (SDDP) to offer dealers an easy driver download and device identification experience.



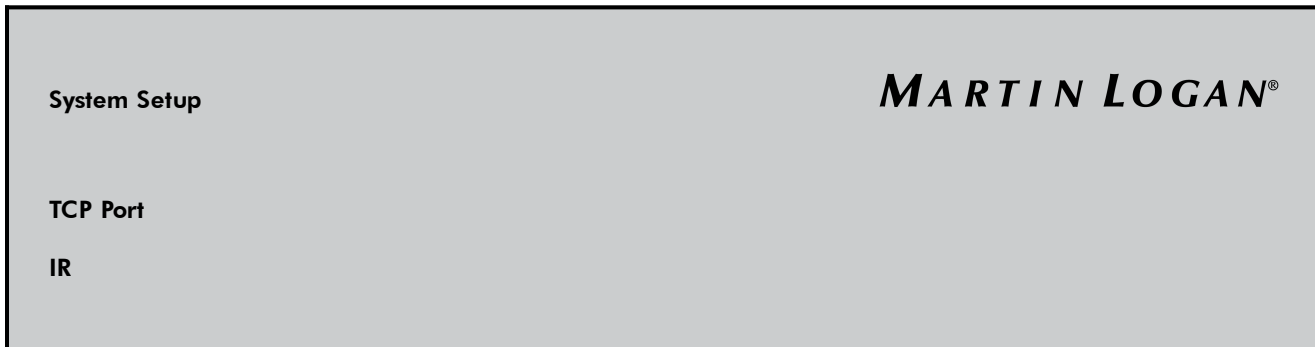
ENABLE SDDP

This setting controls whether SDDP is enabled on your USR51. When turned off, the USR51 will not be discoverable by your Control4 system. SDDP is enabled by default on your USR51.

DISCOVER: NOTIFY SDDP IDENTITY

Pressing the "Activate" button will broadcast an SDDP identification message to the network the USR51 is connected to. This allows dealers to connect your USR51 to your Control4 system.

4.7 SYSTEM SETUP – NETWORK SETUP



TCP PORT

Allows you to change the TCP Port number. Only values between 1025 and 49150 are accepted. Note that this should only be changed if there is a conflict on the network with another component.

IR

Select whether the IR signal from the remote control is decoded using the Front IR receiver or the Rear IR jack. When selecting Rear IR, make sure to connect the IR extender cable (included in the accessories) in the jack labeled IR EXTENDER IN located beside the AC inlet.

IP STATUS

Displays the status of the current network connection, IP mode, IP address as well as values for the Subnet, Gateway and DNS (Domain Name System).

ETHERNET CONFIGURATION

Settings in this submenu should only be changed if you want to use a static IP address and want to define the subnet, gateway and DNS.

If errors occur when adjusting the unit's static IP settings, the USR51 can be manually set back to AUTO DHCP. This will remove the manually set IP settings, return the unit to Auto DHCP and allow the unit to be re-connected to the network. To perform this action, on the back of the unit depress the DHCP Reset button with either a pin or a pen and hold the button in for between 2-5 seconds. The unit will be available to reconnect to the network within 30 seconds.

The USR51 will retain its current name if it has been changed, either by the user, Apple and/or Google Home Applications. If using a Wi-Fi connection either through an iOS or Android device the user can set up the device again through WAC mode (iOS device) or through the Anthem Wi-Fi Setup application. If the user has a password protected Wi-Fi network, they will be prompted to enter the password to rejoin the Wi-Fi network.

If using an ethernet connection, depressing the DHCP reset button for 2-5 seconds will also return to Auto DHCP and the unit will obtain new settings from the router.

*No changes will take effect until the "Apply" button is clicked.

Wi-Fi CONFIGURATION

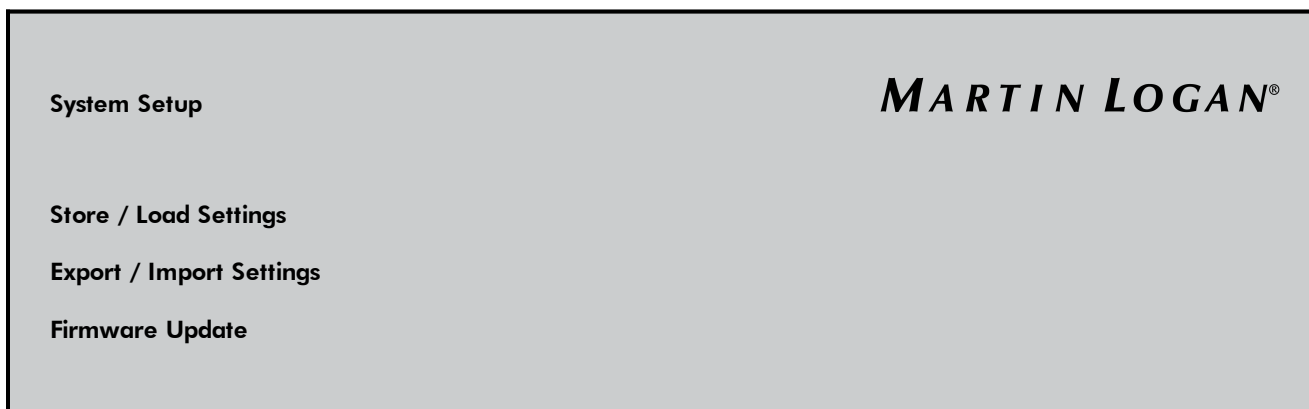
Settings in this submenu lets you connect to a wireless network manually. Click on Scan to start populating the available networks that will be shown in the SSID pull-down. Type in the Password and click on Apply to configure the USR51. Alternatively, you can toggle the Manual SSID button and enter the SSID network name. Once the LAN cable will be disconnected, the unit will connect to the wireless network automatically.

If you don't have a LAN cable, you can setup the wireless network by using the Anthem Wi-Fi Setup application or via AirPlay. Refer to the OPERATION section for details on how to do this.

*No changes will take effect until the "Apply" button is clicked.

Caution! Changing Ethernet settings while connected to Wi-Fi will result in Wi-Fi settings being reset and your unit disconnecting from the network. An ethernet connection or a new Wi-Fi set-up will be required to reconnect.

4.8 SYSTEM SETUP – STORE / LOAD / UPDATE



STORE / LOAD SETTINGS



USER SETTINGS

Selecting Store User Settings and confirming saves all menu settings in a built-in “user file”. If you change settings later and want to recall the saved settings, select Load User Settings.

INSTALLER SETTINGS

This offers the same functionality as the Store / Load user settings, but offers you a second option for an installer to save their settings when they leave. This can be useful if user settings are modified to a point where there are issues, so they can revert back to the settings where the installer last left them.

DEFAULT SETTINGS

Selecting and confirming this option resets all menu settings to the factory defaults. This option does not reset network settings.

RESET ON-THE-FLY ADJUSTMENTS

Selecting and confirming this option resets all non-menu settings such as level and bass/treble.

HARD RESET

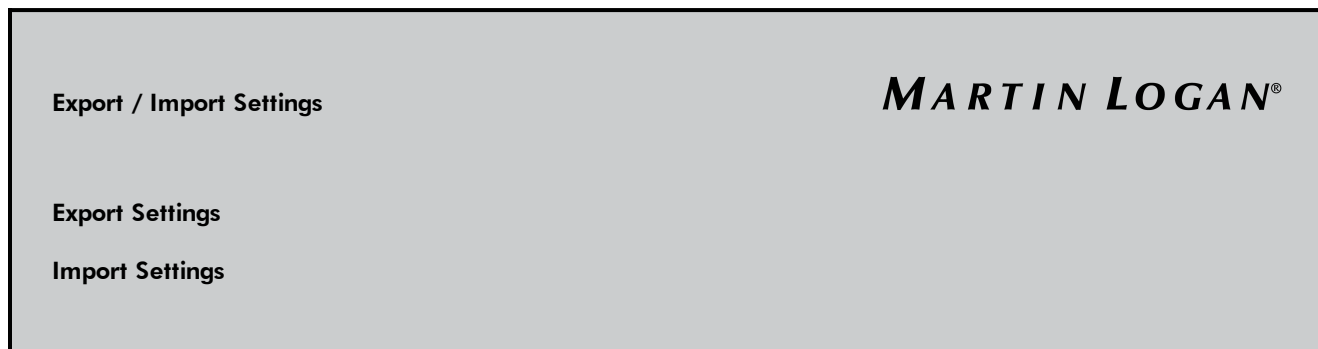
Resets all persistent and on-the-fly settings. Communication with the device will be lost if a wireless connection is used as the Wi-Fi settings are cleared. This will also clear all AirPlay and Google Cast configurations. If the unit was previously added to the Apple or Google Home applications, it would be best to remove the device, (if listed in the Home application) and re-add the USR51 once the hard reset is done.

The current configuration of the unit (such as names, trims, speaker profiles or Anthem Room Correction) will revert to the factory defaults. User and installer settings will also be replaced by the factory defaults. If you want to preserve your settings, use the export/import features.

The software/firmware version will be retained on the unit and the name of the unit will revert back to USR51-xxxxxx, (where xxxxxx represent the last characters of the LAN MAC address).

A hard reset can also be done by pressing and holding the DHCP Reset/Factory Reset button (located beside the AC inlet) for 6 to 10 seconds.

EXPORT / IMPORT SETTINGS



EXPORT SETTINGS

Creates a file that can be saved on your PC or mobile device allowing you to copy settings to another USR51 or in the event of a replacement unit or service, this file can be used to reload the settings.

IMPORT SETTINGS

Allows you to upload a file of settings that you have previously created either from this unit or another USR51.

FIRMWARE UPDATE

Firmware updates (whether beta or fully-released versions) will preserve your settings and ARC parameters.



BETA UPDATES

When selected, your USR51 will become enrolled in our beta over-the-air receiver update program that provides updates to help with testing new software, which will either include bug fixes or new features.

Note that beta updates are not necessarily ready for full release and may introduce new bugs into your USR51 (which may not be resolved until a newer version of the beta software is released, as firmware rollbacks are not supported on the USR51). If you are not comfortable with potential bugs, leave this setting at its default position. A check for a beta update is automatically performed once a day. This option requires an internet connection.

CHECK FOR UPDATE

When you select this option, it will scan for a software update and prompt to update if one is found. Note that the newest software will be selected; if you have "Beta Updates" enabled, this file can be a beta or full release firmware version. This option requires an internet connection.

The USR51 automatically checks for and installs updates overnight if your device is not in use.

5.0 ANTHEM ROOM CORRECTION

5.1 ANTHEM ROOM CORRECTION (ARC®)

Please visit AnthemARC.com for detailed information about using Anthem Room Correction.

The most significant detriment to the sound of an audio system is almost always the room it resides within—especially true in the realm of bass. Even in a professionally treated sound room, bass can quickly become boomy or anemic. Anthem Room Correction helps audio systems sound their best in any space. ARC offers a robust suite of tools to tame your wild sonic frontier—whether you have a tricked-out home theater, a traditional living room with carpet and thick drapes, or a modern floor plan with large open spaces and acoustically reflective furniture and windows.

Have you ever tested the acoustics in an empty room by whistling or clapping? It brings to mind how sound is affected by a room's size, structure, and contents. Even when using optimally positioned speakers of exceptional quality, the room negatively impacts sound quality considerably. Surfaces such as windows and furnishings, and the geometry of the walls, floor and ceiling add unwanted resonance and coloration, making the bass either boomy or less punchy, voices less natural, and dialogue less intelligible. The effect on frequency response is typically ± 6 dB in the midrange and ± 10 dB at low frequencies.

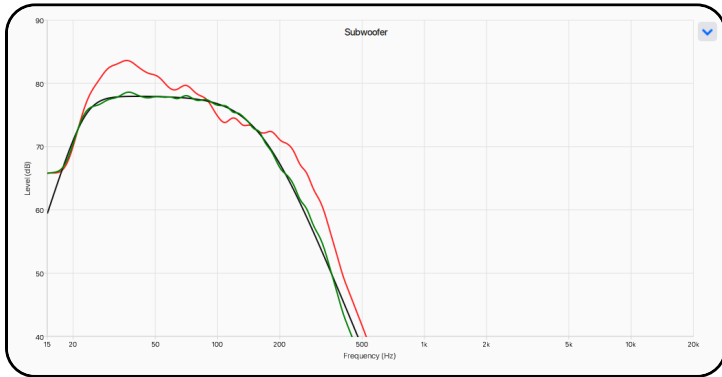
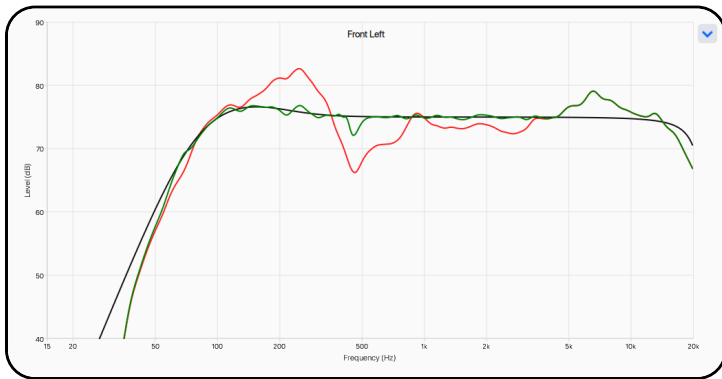
To compensate for this and to optimize the in-room response of your speakers, Anthem Room Correction measures the output of each speaker relative to the listening area, then, through a series of calculations, adjusts its output. Not only does ARC correct peaks and dips in a speaker's frequency response, but it also preserves the beneficial acoustic attributes of a room—attributes based on proven psychoacoustic science (the study of how humans hear and experience sound).

In the sample curves provided here, the red curves represent the in-room response before correction, as an average from five measurement positions. In contrast, the green ones show a response with equalization applied. The black curve represents the target response. In this case, a subwoofer and bass management are also in use.

The default correction range, as shown below, is 5,000 Hz. This range can be changed to a higher or lower frequency if desired, although raising it is not recommended. At higher frequencies, the microphone becomes directional, thus affecting measurement accuracy. Note the rise in the measured and corrected response below 200 Hz. This rise shows the amount of room gain. ARC preserves the natural room gain of the room or allows you to adjust the amount of room gain if you wish.

The subwoofer graph may imply that the subwoofer plays up to the highest frequency shown, but what it plays depends on what the other channels send to it as determined by their crossover setting. The subwoofer graph shows the available correction range, which is not necessarily the range that other channels send to it through bass management.

5.2 USING ARC WITH USR51



In addition to correcting the acoustic response of subs and speakers, ARC also:

- Adjusts the overall balance of the speakers.
- Sets the crossover point between the speakers and subwoofer (do not manually change this after running ARC).
- Adjusts the speaker's distance.
- Adjusts the subwoofer's level relative to the speakers.
- Adjusts the subwoofer's phase/polarity relative to the speakers.

When using ARC Genesis, the speakers will output very loud sounds during the room correction process, so, since the volume cannot be adjusted, please be considerate of housemates, neighbors, children and pets who are in the area. Before using Anthem Room Correction make sure to connect and enable your subwoofer (if applicable).

To use Anthem Room Correction:

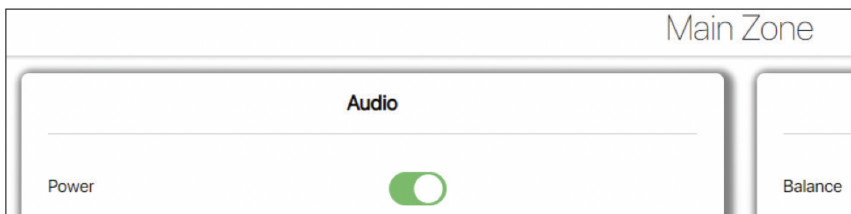
1. Download and install the program from AnthemARC.com.
2. Start the program and select Launch ARC from the first screen.
3. Select the USR51 from the device discovery screen.
4. Follow the on-screen instructions to measure the room, calculate correction curves, and upload them to the USR51.

1. Anthem Wi-Fi Setup does not seem to discover my USR51. Any recommendations?

Anthem Wi-Fi Setup uses Bluetooth to discover new devices. Make sure that both wireless antennas are connected at the back of the USR51. It is good practice to set them orthogonal to each other to improve reception. Make sure that your device is also nearby the USR51 for the initial setup.

2. How can I change the speaker configuration in the setup menu as everything is grayed?

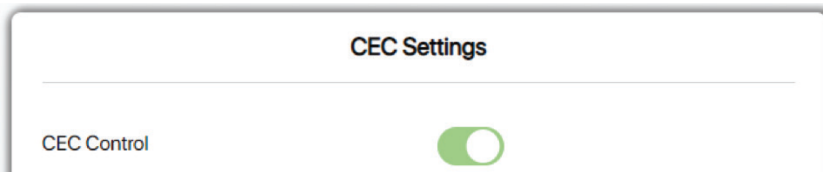
To change any parameter in the setup menu, the unit needs to be in operate mode. Simply turn on the unit by toggling the power in the the Main Zone screen.



3. When selecting TV, I hear no audio from the USR51 - why?

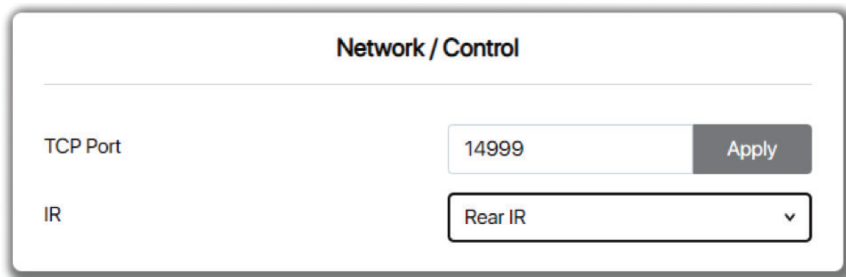
There are a number of reasons why getting audio via ARC (Audio Return Channel) or eARC (enhanced Audio Return Channel).

1. Make sure your TV supports ARC or eARC. Some older TVs may not support the audio return channel.
2. Ensure the cable is connected into the HDMI port on the TV that supports ARC/eARC. TVs usually have multiple HDMI inputs, but typically only one of these will support ARC/eARC.
3. Make sure that the HDMI cable between the TV input and USR51 output supports eARC (i.e. HDMI cable with ethernet) if this is the audio format you want to use.
4. Go in the setup menu of the TV and make sure that the preferred audio output is set to ARC/eARC.
5. If using ARC or eARC, CEC must be enabled on both your TV and the USR51. Go in the General Setup menu of the USR51 and turn ON CEC Control. Note that by default, CEC is enabled on the USR51.
6. On some TVs, disabling and re-enabling ARC/eARC may be required for audio to actually start working.



4. I have connected the IR extender cable at the back of the USR51, but it does not seem to be working?

To use the IR extender cable you need to go in the Network Setup menu and select the rear IR. You cannot turn the front and rear IR inputs at the same time.



The screenshot shows a web interface titled "Network / Control". It has two main settings: "TCP Port" with a text input field containing "14999" and an "Apply" button, and "IR" with a dropdown menu currently showing "Rear IR".

5. I'm sending commands to the USR51 using the TCP or WebSocket, but the USR51 does not react.

Make sure to send the terminator ";" at the end of the command. CR/LF is not required.

6. I've unplugged the LAN cable after configuring the wireless network, but I am no longer able to communicate with the USR51. Plugging back the LAN cable, everything works OK. What I am doing wrong?

When switching from ethernet to a wireless network, the IP address will likely be a new one and this is why you are losing control of the unit. If using the Anthem Remote App, go back into the discovery screen or re-start the app and re-connect to your USR51. If using the web interface, use one of the method described in section 3.3 to find out the new IP address.

7. I've performed a DHCP reset after disabling AirPlay and I can no longer set-up the USR51 with my iOS device. What I am doing wrong?

Disabling AirPlay in the Services page also disables WAC (Wireless Accessory Configuration) mode. WAC is required to allow iOS device to configure the USR51 to connect to a wireless network. You may configure your device using the Anthem Wi-Fi Setup app; temporarily connect the USR51 to Ethernet and re-enable AirPlay in the services page; or, perform a Hard Reset to restore settings to defaults.

8. Some things just don't work! Can I get help?

Try doing an AC cycle (unplug AC, wait a minute or so and re-apply AC power) and while the unit is OFF, verify that your cables are connected properly and are in good condition. You may also want to do the same with your TV and source devices.

Before contacting customer support, check for firmware updates as we continuously strive to make improvements to the software. This can be done by accessing the Store/Load/Update page and by clicking on Check for Update.

You can also look at our online FAQ <https://faq.martinlogan.com/support/home>.

If still experiencing issues, support can be reached by sending an e-mail at support@martinlogan.com. Make sure to include information such as Serial Number, Release Version, and Ethernet MAC Address from your device's ⓘ (Information) page (Section 4.1).

SPECIFICATIONS

SPEAKER OUTPUT (0 DBFS DIGITAL INPUT, 1 W OUTPUT INTO 8 OHMS)

Frequency Response	20 Hz - 20 kHz +/-0.5dB
S/N Ratio (IEC-A filter)	92 dB
THD+N ratio (1 kHz, 20-22 kHz filter)	-87 dB

SPEAKER OUTPUT (1 VRMS ANALOG INPUT, 1 W OUTPUT INTO 8 OHMS)

Frequency Response	20 Hz - 20 kHz +/-0.5dB
S/N Ratio (IEC-A filter)	88 dB
THD+N ratio (1 kHz, 20-22 kHz filter)	-85 dB

SPEAKER IMPEDANCE

Compatible with 4 Ohms or higher impedance.

FTC POWER OUTPUT RATING (1% THD)

Channels 1-5, Two Driven into 8 Ohms	50 W
Channels 1-5, Two Driven into 4 Ohms	92 W

POWER CONSUMPTION

Typical Load (1/8th power, all channels driven into 8 ohms)	< 50 W
--	------------------

Standby (IP Control Enabled)	< 2 W
-------------------------------------	-----------------

Standby (IP Control + HDMI Bypass Enabled)	< 5 W
---	-----------------

DIMENSIONS

Height (without feet)	1.5" / 3.8 cm
------------------------------	----------------------

Height (with feet)	1.7" / 3.8 cm
---------------------------	----------------------

Height (with rackmount kit)	1U / 1.75" / 4.4 cm
------------------------------------	----------------------------

Width	11" / 27.9 cm
--------------	----------------------

Width (with rackmount Kit)	19" / 43.2 cm
-----------------------------------	----------------------

Depth	11" / 27.9 cm
--------------	----------------------

Depth (including power cord)	13" / 33.0 cm
-------------------------------------	----------------------

WEIGHT

6.6 lb / 3.0 kg

POWER REQUIREMENT

120 V version

In countries where the line voltage is 120 V, this product operates from a single phase AC power source that supplies between 108 V and 132 V at a frequency of 60 Hz.

220-240 V version

In countries where the line voltage is 220, 230, or 240 V, this product operates from a single phase AC power source that supplies between 198 V and 264 V at a frequency of 50 Hz.

LIMITED WARRANTY

CANADA & USA

The warranty period on new MartinLogan products is:

5 years: Separate power amplifiers and integrated amplifiers

3 years: Audio/Video preamplifiers and receivers

Please register your product at www.martinlogan.com

The warranty period begins on the date of purchase from MartinLogan or an Authorized MartinLogan Dealer. This warranty is offered only to the original owner and is not transferable. Demonstration and display units are covered by the same warranty except that the period commences on the date of dealer invoice, not the purchaser's invoice, and cosmetic flaws are excluded.

If MartinLogan determines that the product has a defect in materials or manufacturing during the warranty period MartinLogan will at its option repair, replace or provide the necessary replacement parts without charging for parts or labor. Repaired or replaced equipment or parts supplied under this warranty are covered by the unexpired portion of the warranty.

Warranty is void if the serial number has been removed, altered or defaced, if the product has been operated, installed or handled other than in accordance with the intended application, tampered with, modified, or damaged by accident, while in transport or by failure of electric power, or has been repaired by a non-authorized party. MartinLogan shall have no obligation to correct any defect that is not reproducible by MartinLogan. If inspection by MartinLogan discloses that the repair required is not covered by this warranty, regular repair charges shall apply.

If a problem is discovered in your MartinLogan product, please contact the Authorized MartinLogan Dealer from whom you purchased the product. Your dealer will help to determine the cause of the problem and arrange for the appropriate action. Alternatively, follow the procedure below for factory service.

A Return Authorization (RA) number must be obtained from MartinLogan Technical Support before a product can be shipped to MartinLogan for any reason. Product shipped to MartinLogan without its RA Number clearly visible on the outside of the shipping carton will be refused and returned to the sender, freight collect. Product shipped to MartinLogan must have shipping and insurance prepaid by the sender, be packaged in the original carton and packing material and accompanied by a written description of the defect. Service will not be given under warranty without an accompanying copy of the sales invoice. Product repaired under warranty will be returned with shipping and insurance prepaid by MartinLogan (within Canada and continental USA only).

DISCLAIMER OF LIABILITY

Under no circumstances shall MartinLogan, its agents, representatives or employees assume liability or responsibility for injury or damages sustained in the use or operation of MartinLogan products or for damages to connected products. Some jurisdictions do not allow limitations of incidental or consequential damages so this exclusion may not apply to you.

MartinLogan reserves the right to make design changes without obligation to revise prior versions. All specifications are subject to change without notice.

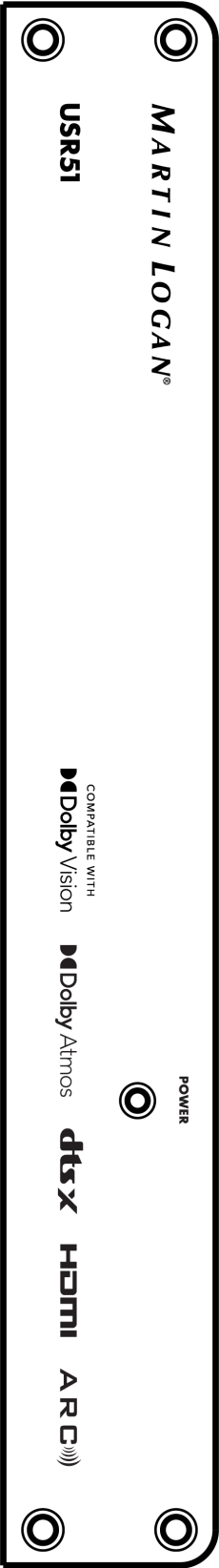
This warranty shall be the sole and exclusive remedy to you. No other warranty or condition, statutory or otherwise, expressed or implied, shall be imposed upon MartinLogan nor shall any representation made by any person, including a representative or agent of MartinLogan, be effective to extend the warranty coverage provided herein.

On the expiration of the warranty all liability of MartinLogan in connection with the product shall terminate.

INTERNATIONAL

Terms and conditions are set and maintained by the Authorized MartinLogan Distributor, not MartinLogan.

THE BIG PICTURE USR51 FRONT PANEL



THE BIG PICTURE USR51 BACK PANEL

