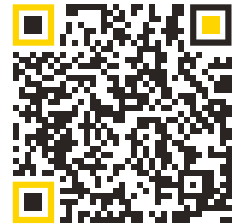


AVA15 | AVA25



Download the
ARCAM Radia App



Important Safety Guidelines

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during 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. Object or liquid entry: WARNING – Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. The equipment shall not be exposed to dripping or splashing. Liquid-filled objects such as vases should not be placed on the equipment.
16. Climate: The equipment has been designed for use in moderate climates and in domestic situations.
17. Cleaning: Unplug the unit from the mains supply before cleaning. The case should normally only require a wipe with a soft, lint-free cloth. Do not use chemical solvents for cleaning. We do not advise the use of furniture cleaning sprays or polishes as they can cause permanent white marks.
18. Power sources: Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment. The primary method of isolating the equipment from the mains supply is to remove the mains plug. The equipment must be installed in a manner that makes disconnection possible.
19. Abnormal smell: If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.
20. Damage requiring service: The equipment should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged, or
 - B. Objects have fallen, or liquid has spilled into the equipment, or
 - C. The equipment has been exposed to rain, or
 - D. The equipment does not appear to operate normally or exhibits a marked change in performance, or
 - E. The equipment has been dropped or the enclosure damaged.



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



The lightning bolt with an 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 product.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

Class II product

This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth ("ground" in the U.S.)

Warning

Mains plug/appliance coupler is used to disconnect device and it shall remain readily operable.

Safety Compliance

This equipment has been designed to meet the IEC/EN 62368-1 international electrical safety standard.

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.

The building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.

Caution on installation

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.

1. More than 0.3m (12in) is recommended.
2. Do not place any other equipment on this unit.

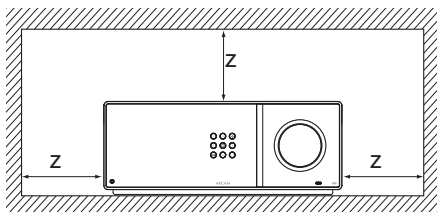


Table of Contents

Important Safety Guidelines	2
Table of Contents	4
Placing The Unit	6
Power Management	6
Package Contents	7
Front Panel (AVA15/AVA25)	8
Rear Panel AVA15	10
Rear Panel AVA25	12
Remote Control	14
○ Replacing the Batteries	14
○ Pairing	14
Connections	15
○ Subwoofer	15
○ Standard Loudspeaker Connections	15
○ Bi-amplification	16
○ Trigger Outputs	17
○ HDMI OUT Connections	17
○ HDMI IN Connections	18
Speaker Layout and Speaker Layers	19
First time setup	20
Home Screen Navigation	26
Selecting an Input	27
Bluetooth Operation	28
Selecting a Preset	29
Choosing Your Audio Settings	30

Speaker Settings	30
○ Speaker Setup	31
○ Custom Menu AVA15	32
○ Custom Menu AVA25	33
○ Speaker Distances	34
○ Speaker Levels	34
○ Speaker AEQ	34
Audio Settings	35
Getting Started with Dirac Live	36
○ Preparing to measure your room	37
○ Measuring your room with Dirac Live	38
Bluetooth Output	39
Settings	40
Input Setup	40
HDMI Setup	43
General Setup	43
Zone 2 Setup	44
Status	45
Streaming	47
○ Supported Audio Formats	47
Troubleshooting	48
Specifications	49
Licenses and Trademarks	50
Regulatory Communication	52

The “A” in ARCAM stands for Amplification - this is our core competence.

ARCAM has been designing specialist Hi-Fi and home cinema products and delivering state-of-the-art sound performance for 50 years.

The **AVA15** and **AVA25** continue this heritage, evolving decades of amplifier design expertise rooted in **ARCAM**'s original 1976 A&R Cambridge development.

Engineered for long-term reliability and exceptional musicality, these AV amplifiers are designed to deliver immersive performance and enduring enjoyment.

In the unlikely event of a fault, or if you require technical assistance, please contact our dedicated support team:

luxurysupport@harman.com

+44 1707 668012

+1 888 691 4171.

Or, if you simply require further information about **ARCAM** products, our network of dealers will be happy to help you. Further information can also be found on the **ARCAM** website at ARCAM.co.uk.

Placing The Unit

- Place the amplifier on a level, firm surface, avoiding direct sunlight and sources of heat or damp.
- Do not place the **AVA15/AVA25** on top of a power amplifier or other source of heat.
- The **AVA15/AVA25** is designed to run warm during normal operation. Do not place the amplifier in an enclosed space such as a bookcase or closed cabinet unless there is good provision for ventilation.
- Do not place any other component or item on top of the amplifier as this may obstruct airflow around the heat-sink, causing the amplifier to run hot (the unit placed on top of the amplifier would become hot too).
- Make sure the remote-control receiver to the right of the front panel display is unobstructed, otherwise this will impair the use of the remote-control.



The **AVA15/AVA25** is designed to run warm in normal use, however extended use at high volume levels can result in the amplifier casework becoming hot to the touch.

When there is no audio input and no user operation, within 20 minutes, the unit will enter standby mode. This product offers the option to deactivate power management functions. Note that doing this will increase the energy consumption of the product.

Power Management

- This product offers the option to deactivate power management functions by disabling the **Auto Standby Timer** in the **General Setup Menu**. Note that doing this can increase energy consumption of the product.
- By default, this product will enter standby within 20 minutes with no user interaction or playback.
- By default, network connections of this product will remain active in standby. To reduce standby power consumption, all network connections, including Wi-Fi, can be disabled by setting **Standby Operation** to **Eco Standby**.

Package Contents

- **ARCAM AVA15/AVA25**
- AVR-M-01 Bluetooth remote
- 2x AAA Batteries for the remote control
- Measurement microphone for use with **Dirac Live**
- 5 m **USB-C** cable for use with the microphone
- Region specific power cord(s)
- Rear-Panel Cowl
- Safety and Compliance document
- Quick Start Guide



Find out more
about your
ARCAM Radia
Product

Front Panel (AVA15/AVA25)



1 Display

6.5-inch high-resolution display. Shows Now Playing status, Input Selection, Internet Radio Presets, and Audio and General Settings Menu. Navigate using Front Panel Buttons (5).

2 Headphone Output

Convenient headphone connection supporting a wide variety of passive headphones. Audio output is stereo only.

3 USB-C for Microphone

USB-C connection of calibration microphone for precise Dirac Live room measurement and acoustic optimisation. Only connected during Dirac Live measurements. Refer to the Dirac Live section for more information on calibration.



4 Encoder

Rotate: Volume Control.

Push: to Mute or Unmute, or to Wake the device when it's in Standby Mode.

Push and Hold: to enter Standby Mode.

5 Front Panel Buttons

Responsible for menu navigation and display brightness settings.

	Left/Right: Input List
  	Up/down: Surround mode
	Press the middle button to select Menu Navigation
	Toggle « Now Playing » Display
	Back
	Display: Bright /Dim /Off
	Home Menu

Rear Panel AVA15



1 Ethernet Input

Provides wired network connectivity for control, streaming, and firmware updates.

2 USB-A Port

Supports audio file playback, firmware updates, and service operations via a connected USB storage device.

3 Digital Inputs

2x Coaxial, 2x Optical
Accepts digital audio signals via coaxial and optical S/PDIF connections.

4 HDMI Inputs (8K Compatible)

7x HDMI Inputs
Supports high bandwidth 8K video sources with advanced HDMI connectivity.

5 HDMI Outputs (8K Compatible)

2x HDMI Outputs: Output 1 has eARC for receiving audio from your display.
Support high bandwidth 8K video sources with advanced HDMI connectivity.
Note: Use HDMI Output 1 (eARC) to allow your TV to pass audio to your device.

6 RS-232 Control Port

Enables external control and integration with automation and custom installation systems.

7

Trigger Inputs/Outputs

In Zone 1, Out Zone 1

Provides zone-specific trigger input and output for synchronized system power control.

8

Stereo RCA Analogue Inputs

3x Pair RCA Inputs

Accepts line-level analogue audio signals via multiple stereo RCA input connections.

9

Analogue Pre-Outputs

6x RCA

Provides line-level analogue audio output for connection to external amplification systems.

10

Assignable Analogue Pre-Outputs

6x RCA

Provides configurable line level outputs for integration with external amplifiers.

11

Mains Power Switch

Connects/cuts mains power to the AV amplifier.

12

Mains Power Connector

Accepts region specific mains power input via detachable IEC connection.

13

Speaker Output Connectors

9x Pairs Binding Posts: 6 Pairs Assignable

Delivers audio output to speakers via robust binding post connectors.

Rear Panel AVA25



1 Ethernet Input

Provides wired network connectivity for control, streaming, and firmware updates.

2 USB-A Service Port

Supports audio file playback, firmware updates, and service operations via a connected USB storage device.

3 Digital Inputs

2x Coaxial, 2x Optical
Accepts digital audio signals via coaxial and optical S/PDIF connections.

4 HDMI Inputs (8K Compatible)

7x HDMI Inputs
Supports high bandwidth 8K video sources with advanced HDMI connectivity.

5 HDMI Outputs (8K Compatible)

3x HDMI Outputs:
Zone 1 Output 1 with eARC; Zone 1 Output 2; Zone 2
Support high bandwidth 8K video sources with advanced HDMI connectivity.
Note: Use HDMI Output 1 (eARC) to allow your TV to pass audio to your device.

6 RS-232 Control Port

Enables external control and integration with automation and custom installation systems.

7

Trigger Inputs/Outputs

In Zone 1, Out Zone 1, In Zone 2, Out Zone 2

Provides zone-specific trigger input and output for synchronized system power control.

8

Stereo RCA Analogue Inputs

3x Pair RCA Inputs

Accepts line-level analogue audio signals via multiple stereo RCA input connections.

9

Analogue Pre-Outputs

6x RCA

Provides line-level analogue audio output for connection to external amplification systems.

10

Assignable Analogue Pre-Outputs

10x RCA

Provides configurable line level outputs for integration with external amplifiers.

11

Zone 2 Pre-Outputs

1x Pair RCA Outputs

Provides line-level analogue audio output for connection to external Zone 2 amplification.

12

Mains Power Switch

Connects/cuts mains power to the AV amplifier.

13

Mains Power Connector

Accepts region specific mains power input via detachable IEC connection.

14

Speaker Output Connectors

9x Pairs Binding Posts: 6 Pairs

Assignable

Delivers audio output to speakers via robust binding post connectors.

Remote Control



	Toggle Standby Operation
	Left/Right: Input List Up/Down: Surround Mode Press the middle button to select Menu Navigation
	Volume Control
	Mute On or Off
	Display: Bright /Dim /Off
	Transport Keys (Play/Pause, Skip back/forward)
	Settings Menu
	On-screen display menu
	Back
	Toggle « Now Playing » Display
	Input selection
	Lip-sync/delay adjustment
	Surround mode
	Dirac Live filter selection

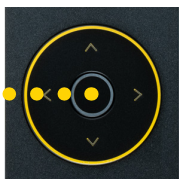
Replacing the Batteries

Remove the battery cover and spent batteries. Replace the old batteries with new AAA batteries, following the orientation marked on the inside of the remote. Note: Incorrect use of batteries can have hazardous results. Do not mix old and new batteries together. Do not use non-identical batteries together. Although they may look similar, different batteries may have different voltages. Ensure the batteries are inserted in the correct direction. Remove batteries from equipment that is not going to be used for a month or more. When disposing of used batteries, please comply with governmental or local regulations that apply in your country or area.

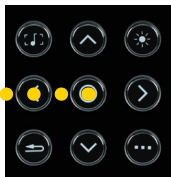
Pairing

Press and hold the centre button on the remote and the centre button on the front panel at the same time. The remote control LED will start flashing and the display will show “Searching.” The pairing will occur automatically.

Remote Centre Button

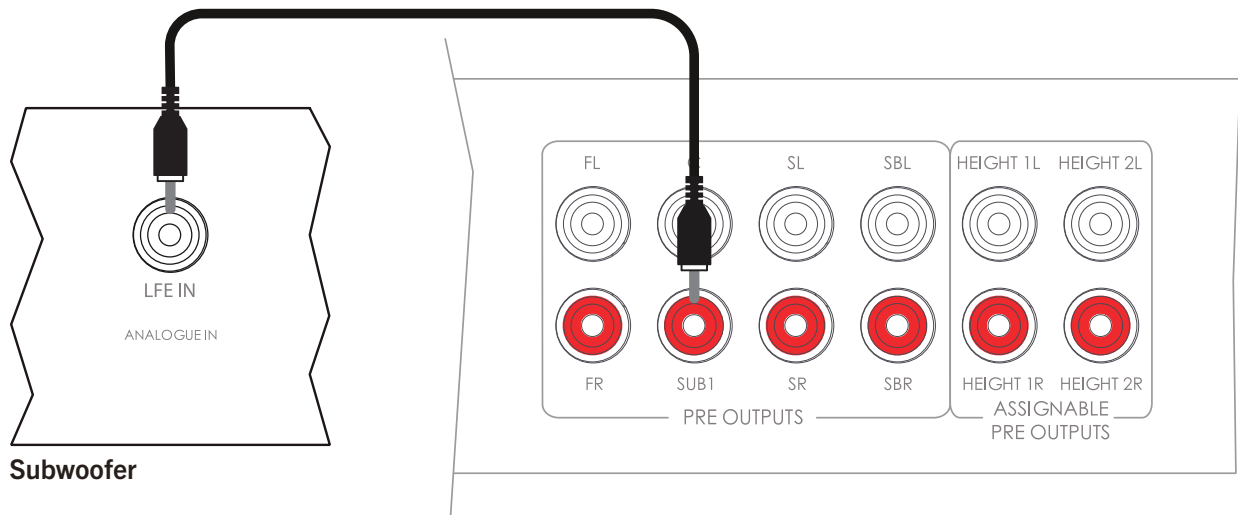


Front Panel Centre Button

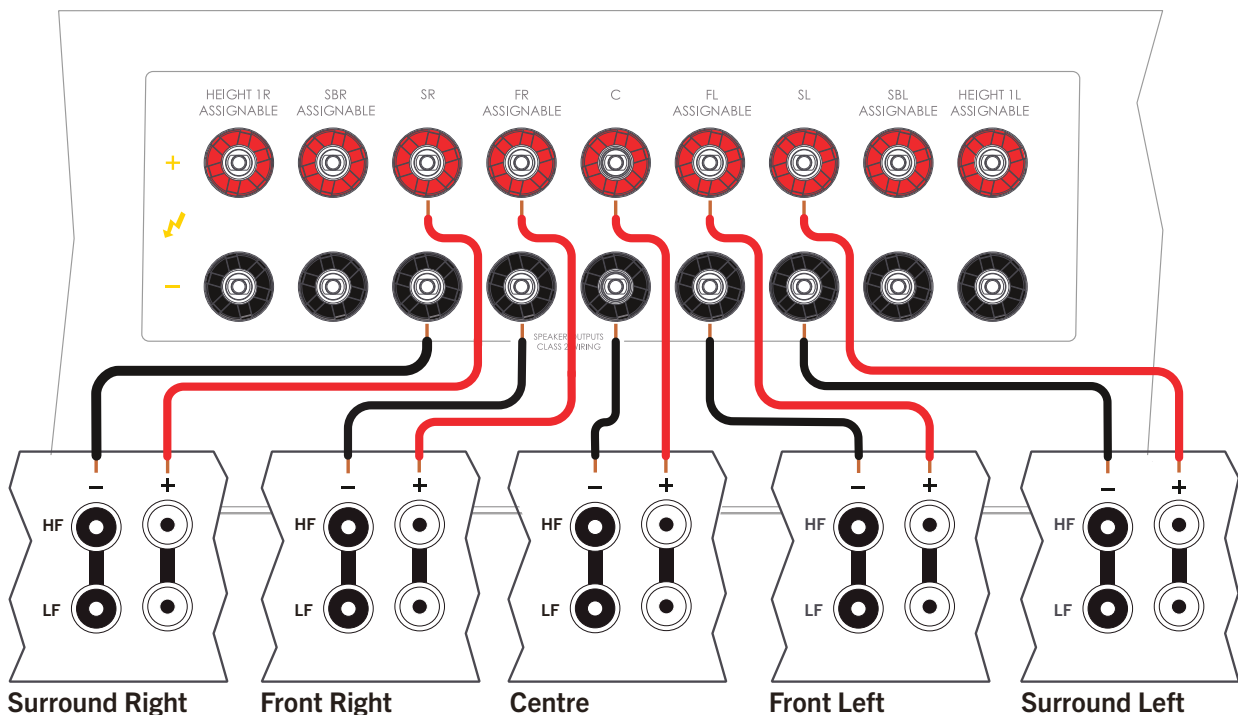


Connections

Subwoofer



Standard Loudspeaker Connections



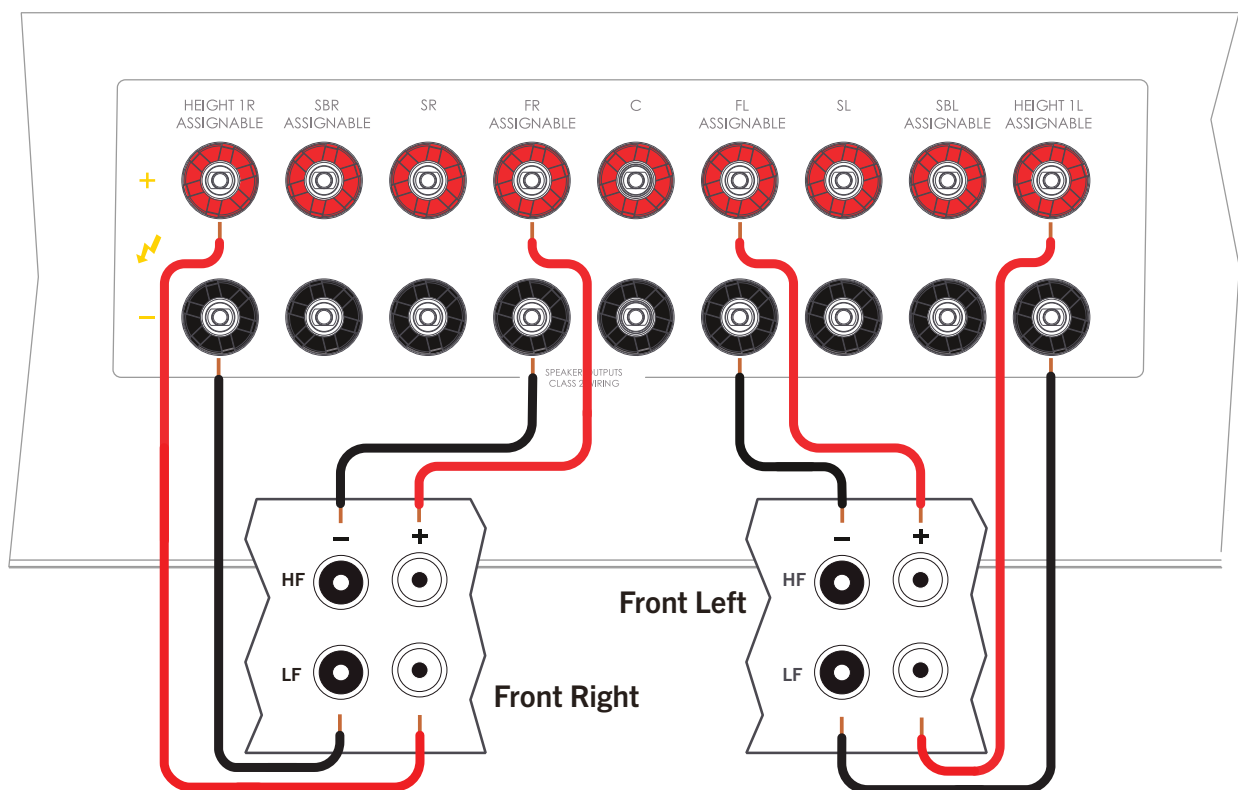
Caution: Individual, separated 4mm banana connectors should not be used in certain regions due to safety concerns. **ARCAM** recommends using bare wire terminations. If you are unsure as to how your system should be connected, please contact your **ARCAM dealer** who will be happy to help you.

Bi-amplification

Bi-amping is the use of two amplifier channels per speaker, usually with one amplifier output driving the high-frequency section of your speakers, and the other driving the low-frequency section. As a result, bi-amping can provide better sound quality than conventional single amplification. Where your system is not using the **Height 1** speaker outputs, they can be used to bi-amplify the front left and right speakers. To configure this in the menu, navigate to:

Settings ▸ Audio ▸ Speaker Settings ▸ Speaker Setup ▸ Custom ▸ Assign Height 1 amplifier outputs (Bi-Amp FL+FR)

- Your speakers must have 2 pairs of inputs to support bi-amping.
- **WARNING: Any links/straps between the high-frequency (HF) inputs and low-frequency (LF) inputs on your speakers must be removed. Failure to remove them will result in damage to the amplifier that is not covered under warranty.**



Trigger Outputs

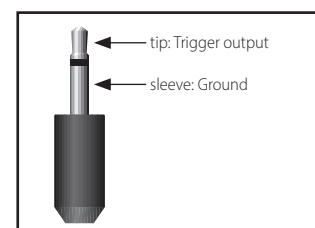
The **Trigger Outputs** (**TRIG OUT Z1** and **TRIG OUT Z2**) are used to synchronise power other equipment with this device. For example, the power state of any power amplifiers or active subwoofers that are being used as part of your configuration can be powered on and off at the same time. There are two **Trigger Out** sockets on the receiver, each capable of outputting **12V DC**.

TRIG Z1 = Trigger for Zone 1

Use for remotely turning on and off power amps or source equipment for Zone 1. On = 12V, Off = 0V.

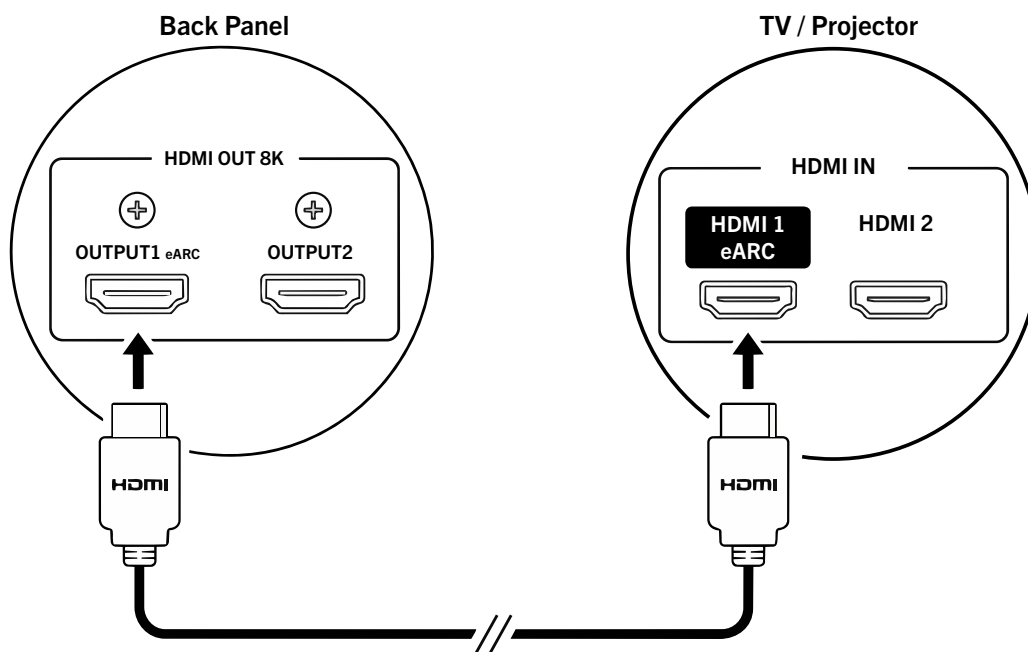
TRIG Z2 = Trigger for Zone 2 (AVA25 only)

Use for remotely turning on and off power amps or source equipment for Zone 2. On = 12V, Off = 0V.



HDMI OUT Connections

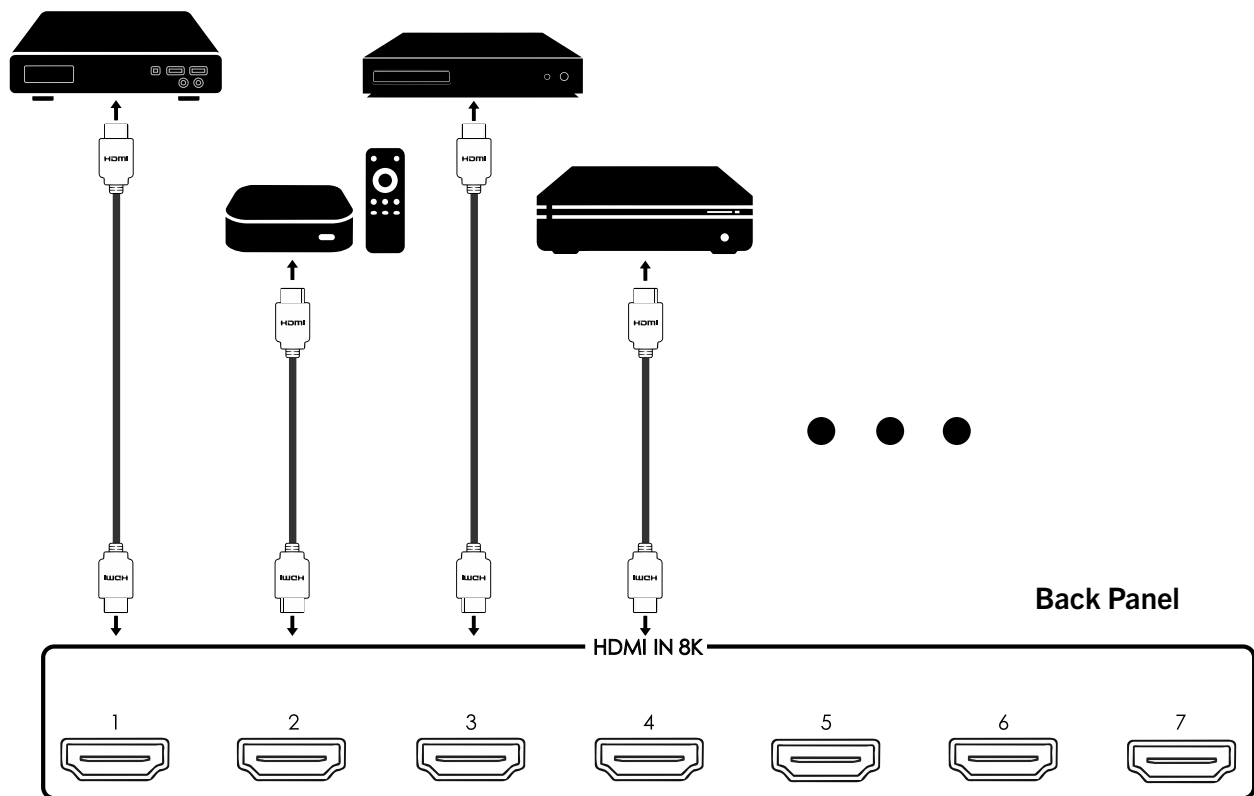
Connect the **HDMI OUT (eARC)** connector to the **HDMI** input on your television labelled **eARC**. When connected to an **eARC**-compatible television, the receiver automatically enables the **eARC** function, allowing audio from the TV's internal tuner and streaming apps to be played through the receiver.



HDMI IN Connections

Connect your **HDMI** source devices to the corresponding **HDMI** inputs on the receiver. The **HDMI** inputs support a wide range of compatible audio and video source devices, including **Blu-ray™** players, media streamers, set-top boxes, game consoles, UHD media players, and other **HDMI**-enabled components.

All **HDMI** inputs are functionally equivalent and may be assigned to any compatible source device as required. Each input can be renamed to match its specific source device using the **ARCAM** control application.



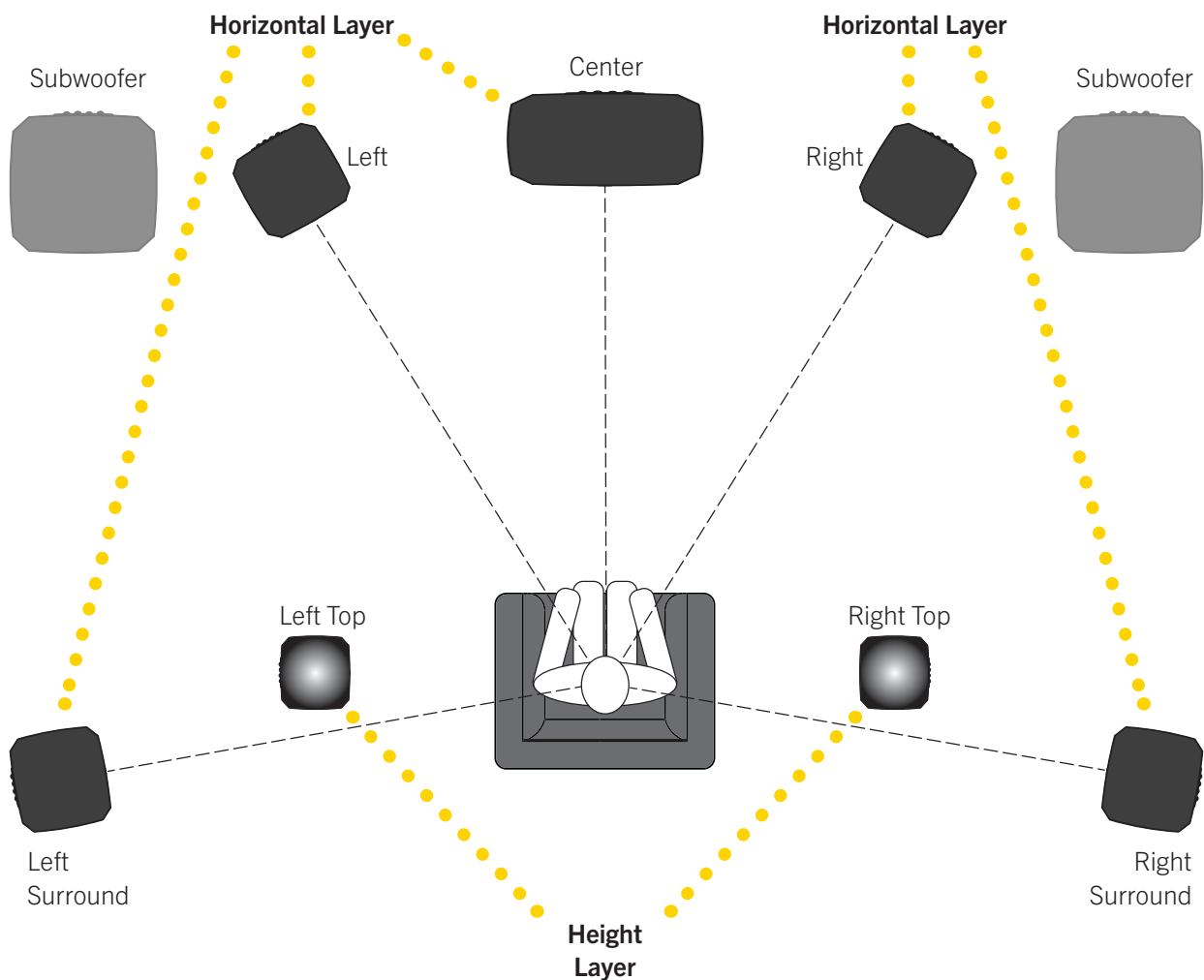
Speaker Layout and Speaker Layers

x.y.z Speaker Configuration

Speaker layouts are described using three characters: x.y.z. The first indicates the number of speakers in the horizontal layer (Main Speakers), the second indicates the number of subwoofers, and the third indicates the number of speakers in the height layer. This notation provides a simple way to describe the channel configuration of a home theatre system. For more info on speaker layouts, visit the [Dolby website](#).

Example: 5.2.2 Speaker Configuration

A 5.2.2 speaker configuration uses five speakers in the horizontal layer, two subwoofers, and two speakers in the height layer. The horizontal layer provides front, centre and surround sound around the listening position, while the height layer adds overhead effects for immersive audio formats such as **Dolby Atmos**, **DTS:X** and **Auro-3D**. The height layer can also contain **Dolby Atmos® Enabled** speakers as a substitute for traditional wall or ceiling-mounted height speakers. Dual subwoofers reproduce low-frequency effects with greater consistency and impact, creating a more powerful and balanced home theatre experience.

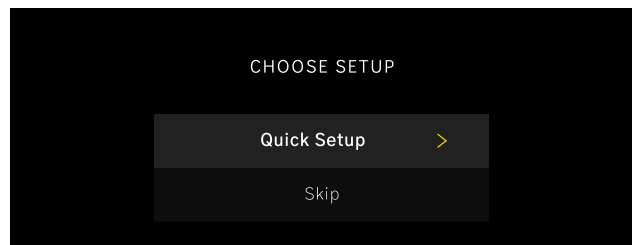


First time setup

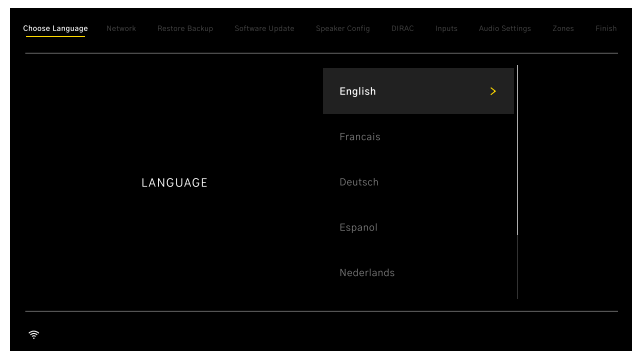
- Before connecting power, connect your speakers and **Ethernet** connection (where available).
- Ensure that your speakers are connected safely and correctly (See the **Loudspeaker Connections** section).
If you are unsure as to how your system should be connected, please contact your **ARCAM** dealer or our dedicated support team who will be happy to help you.
- Connect your display (TV or Projector) to **HDMI Output 1**.
- Connect the power cable, and flip the power switch to the **On** position to power up your **Radia** product.
- Turn on your TV or projector and select the input to which the device is connected.



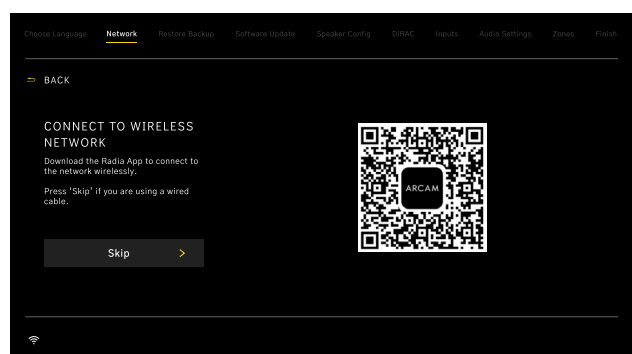
- Select **Quick Setup** to use the guided setup for first time use.
- Select **Skip** to go straight to the main menu for self-navigated setup.



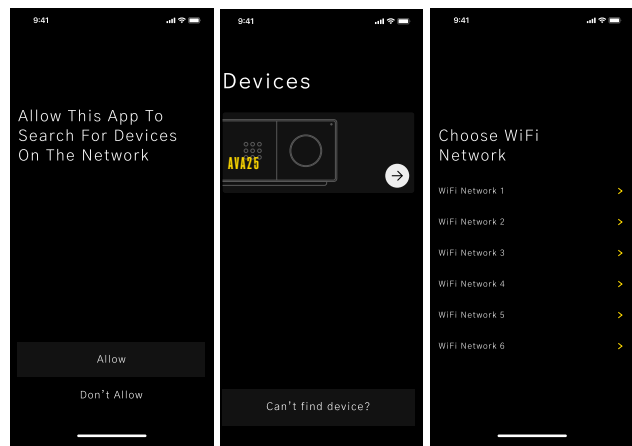
- Choose your language.



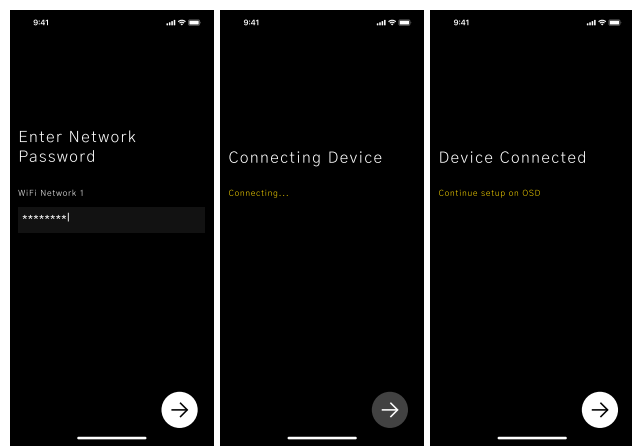
- Use the provided QR code to download the app (also found on the front cover of this manual).
- Install the app and use it to setup your **ARCAM Radia** product on your wireless home network (if you are using a wired connection, select **Skip**).



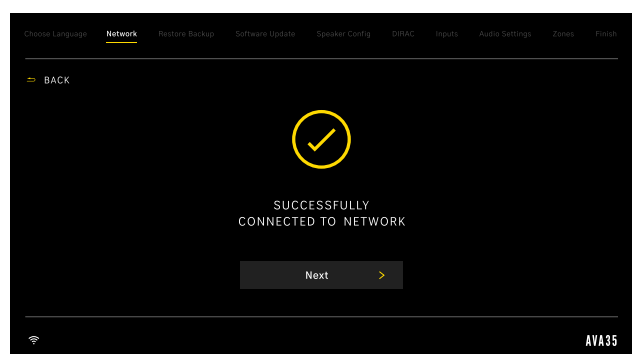
- Open the **ARCAM Radia App**, and select **Allow** to use the app to connect your **Radia** device to your network.
- Select the **ARCAM Radia** device that you wish to set-up (it will match your model number).
- Select your Wi-Fi network.



- Enter the password for your Wi-Fi network.
- The **App** will arrange the connection between your **Radia** device and your wireless network.

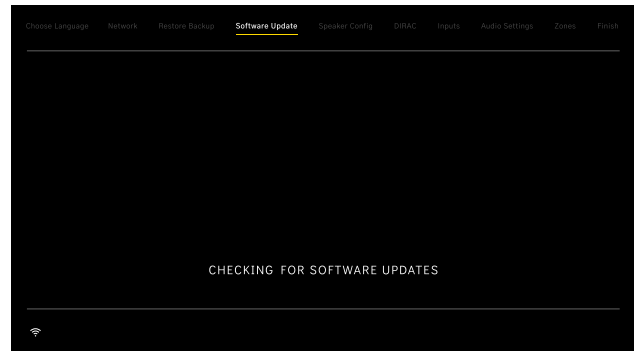


- Return back to the On-Screen-Display (**OSD**) on your TV or projector. It should confirm successful connection to the network.
- Select **Next**.



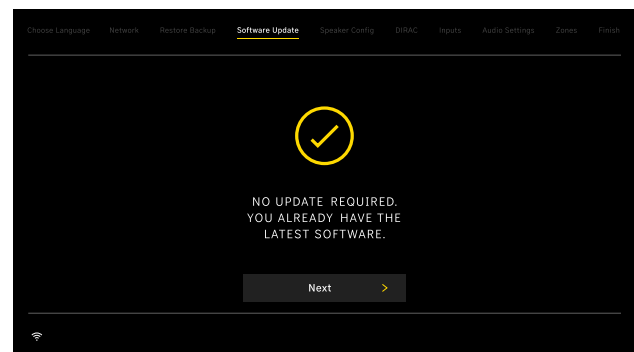
First time setup (continued)

- Your **ARCAM Radia** product will now check for software updates and perform updates if necessary, and either confirm that your device has the latest software or perform an update.

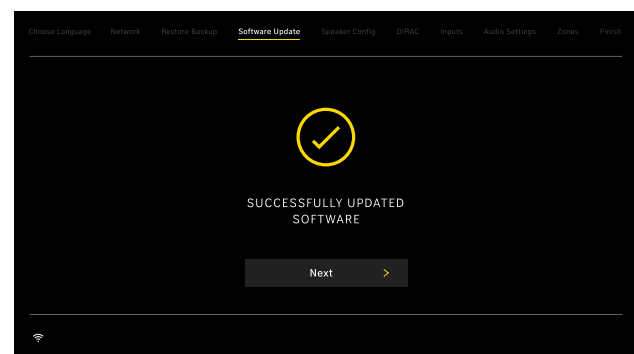


- Select **Next** to continue Setup.

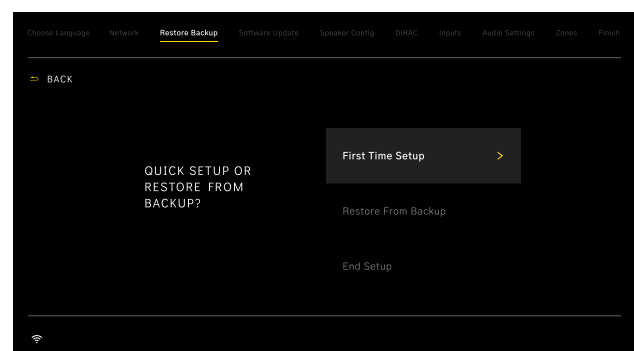
OR



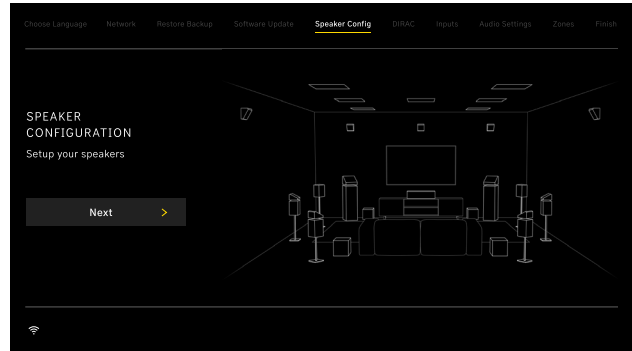
- Select **Next** to continue Setup.



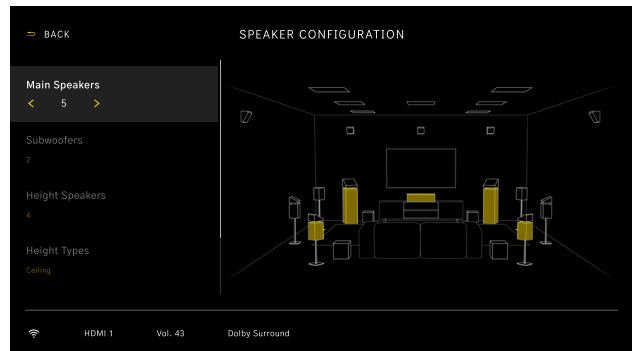
- Select **First Time Setup** (unless you have previously set-up your device and saved a backup of your devices settings. In this case, refer to the **Restore from Backup Section**).



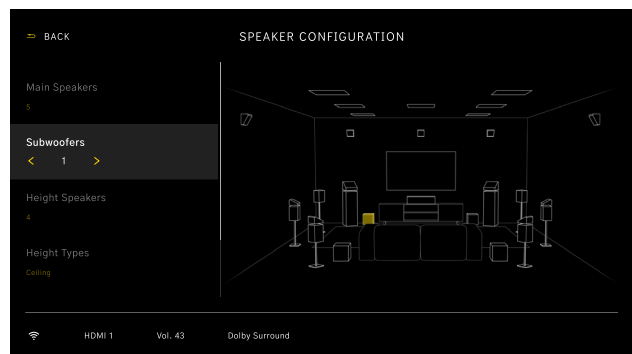
- Click **Next** to begin **Speaker Configuration**.
- For detailed information on ideal speaker placement, consider visiting the [Dolby website](#).



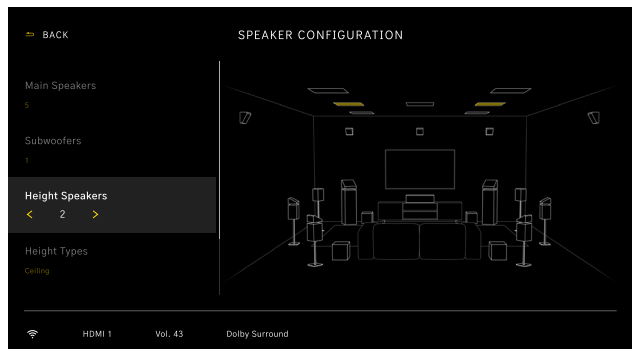
- Specify how many imaging speakers (**Main Speakers**) are in your home cinema system. These are the front and surround speakers.



- Specify how many **Subwoofers** are in your home cinema system. In the **AVA15**, the options are **Yes** or **No**. For the **AVA25**, choose up to **4**. **Subwoofers** can be setup later in the **Custom** menu towards the bottom of this menu.

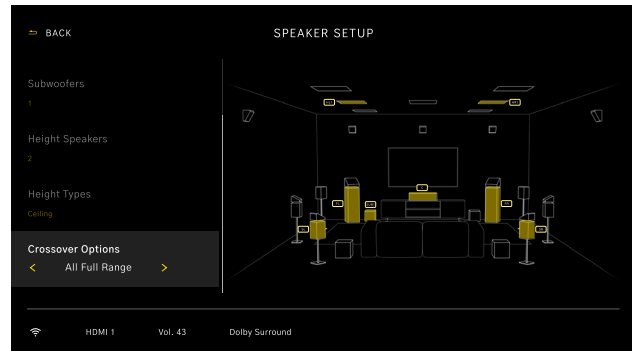


- Specify how many **Height Speakers** are in your home cinema system under **Height Speakers**
- Also configure whether they are **Height/Top** speakers or **Dolby Atmos® Enabled** speakers in the **Height Types** section
 - Top Speakers** are located in the ceiling pointing down.
 - Height Speakers** are those located at the top of a wall pointing towards the listening area. **AVA25** only.
 - Dolby Atmos Enabled speakers** are those which are directed up towards the ceiling, making use of sound reflections off the ceiling surface.



First time setup (continued)

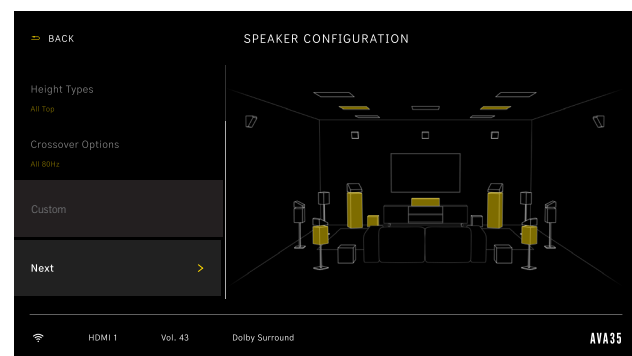
- Finally, set the **Crossover Frequency** for the system. Normally, **80Hz** is recommended.
- Note: The **Crossover Frequency** defines the frequency below which low-frequency sounds are redirected from speakers to subwoofer(s), improving bass management and overall system performance.
- For standard systems, select **Next** and then **Skip** the next step (**Custom**).



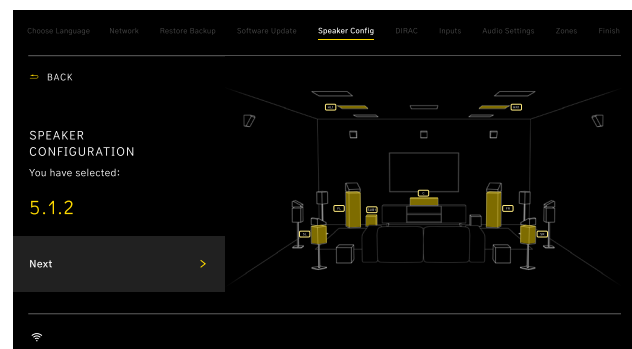
If your system requires a more specific configuration or you would like to explore additional setup options, enter the **Custom** menu. For more details about the **Custom** menu options, see page 32. There you will find the following parameters:

- Crossover Frequency** per loudspeaker (pair)
- Height Type** configuration per pair
- Amplifier Outputs** Reassignment
- Crossover Filter Slope**

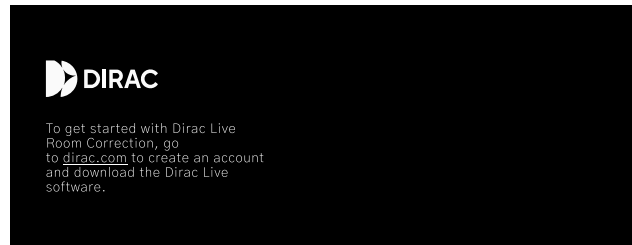
- Click **Next** to move to the subsequent step.



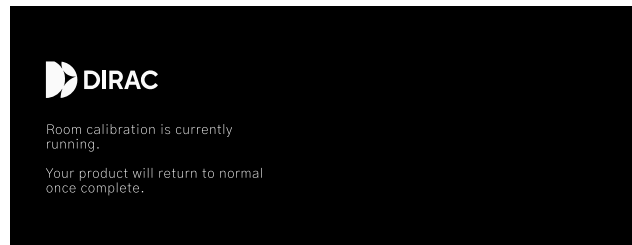
- Select **Next** to confirm your speaker configuration.



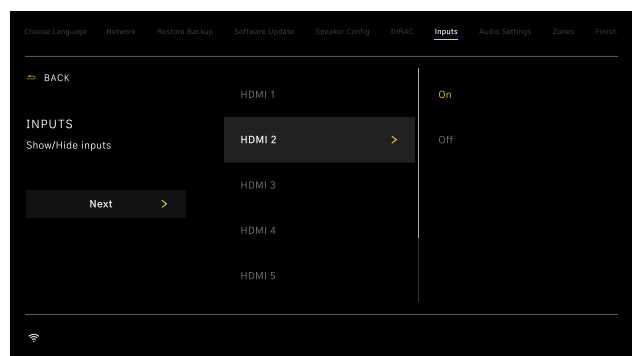
- To get started with **Dirac Live Room Correction**, go to dirac.com to create an account and download the **Dirac Live** software.
- For more information on completing **Dirac Live** calibration, see page 34.
- Otherwise, select **Skip** to leave this step for later.



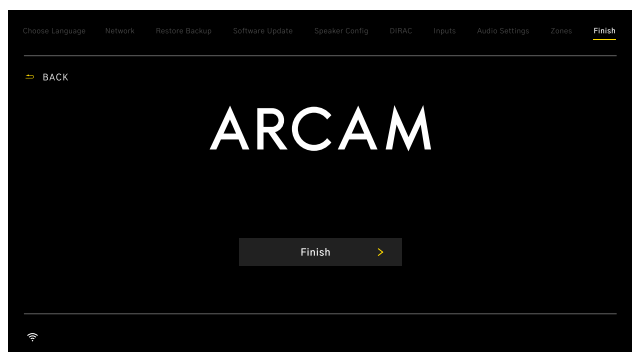
- Whilst running room correction, you will see the following display.
- When **Dirac Live Room Correction** is finished, choose a profile to which this measurement will be saved. There are three profiles to choose from.
- Click **Next** to advance to the Inputs menu.



- The **Inputs** menu allows for unused inputs to be hidden, providing a smoother user experience when switching between actively used input sources.
- Select **Off** to hide an input. Selecting **On** will unhide the input.
- Select **Next** when the Input hiding process is complete.

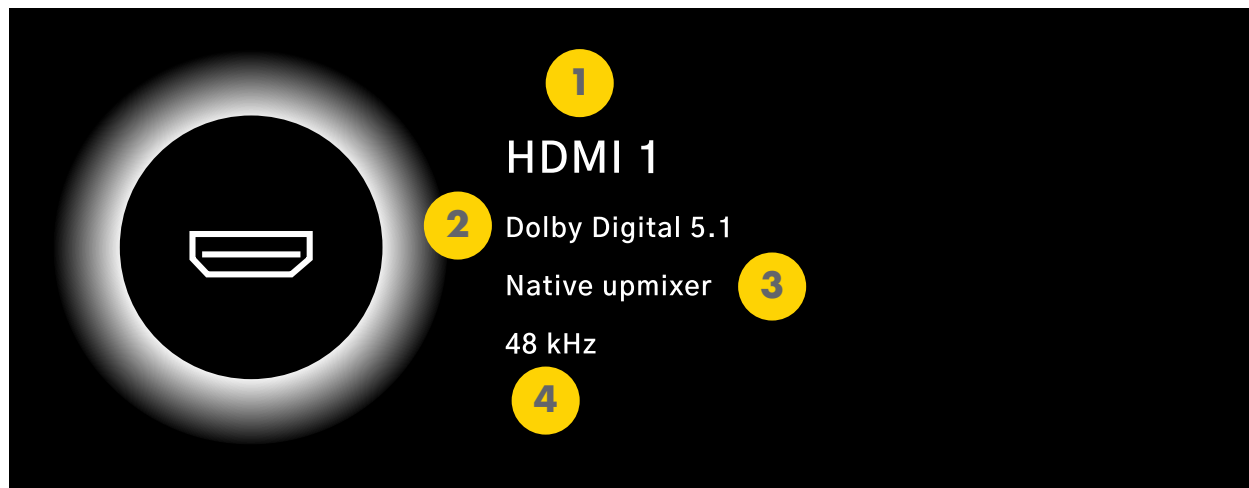


- For the **Audio Settings** screen, select Next, as these settings can be configured later in the main menu.
- Select the **Finish** button to complete **First Time Setup** (your model will be shown).



Home Screen Navigation

- **Method 1:** Use the remote control
- **Method 2:** Use the front panel buttons



The **Home Screen**, or **Now Playing Screen**, shows the following information:

- | | |
|--|--|
| <p>1 Input</p> <hr/> <p>Shows the currently selected Input.</p> | <p>3 Upmixer</p> <hr/> <p>Describes the current audio upmixer selected for the currently selected Input.</p> |
| <p>2 Audio Format</p> <hr/> <p>Displays the currently playing audio format.</p> | <p>4 Sample Rate</p> <hr/> <p>Displays the sample rate of the incoming audio signal.</p> |

Selecting an Input

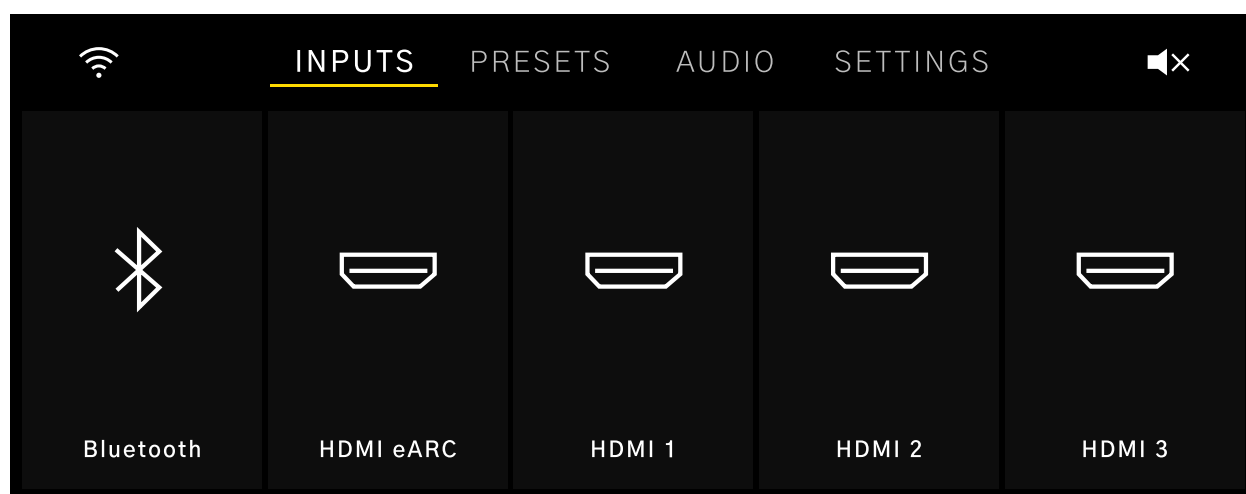
- Method 1: Use the remote control **Inputs** button (see remote control section).



- Method 2: Use the L/R controls on the remote control or front panel.



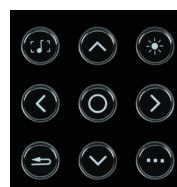
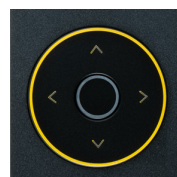
- Method 3: Use the **Settings** ➤ **Inputs** menu via the **Settings** button.



- Press the **Centre (OK)** button on the remote control or front panel to open the **Input List**.

- Use the **Left/Right** arrows to scroll through available sources:

TV (eARC)
HDMI (1–7)
Digital (2 Coaxial / 2 Optical)
Analogue (1-3)
Streaming
Bluetooth
Auracast™

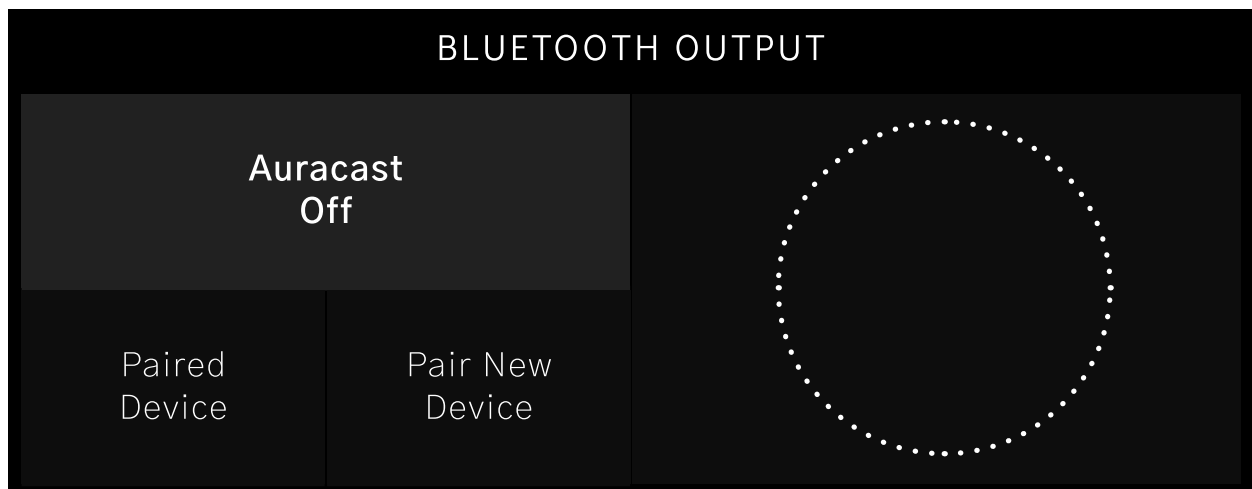


- Press the **Centre (OK)** button to select the highlighted **Input**.

- The selected **Input** is shown on the front panel display.

Bluetooth Operation

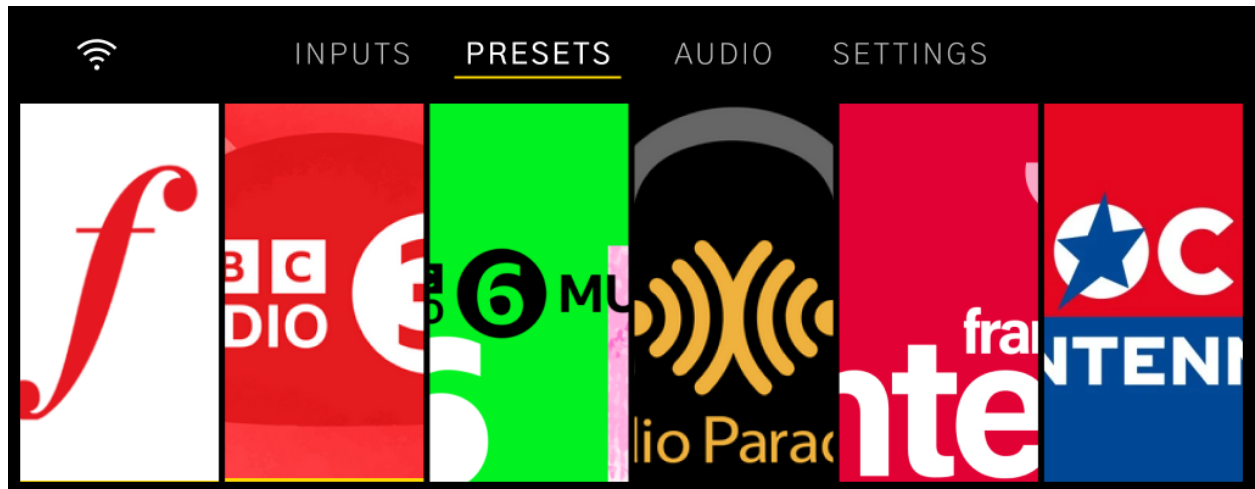
- To pair your **Bluetooth** source device, select the **Bluetooth Input**, open the **Bluetooth** settings on your source device, and scan for **AVA15/AVA25 #####** from the list. Each product has a unique ID.
- By default, the product does not need to be on the **Bluetooth Input** to start **Bluetooth** playback of a paired device.
- The device can recall 5 device pairings. If 5 are in memory already, the oldest will be replaced.
- Because portable devices often have a volume slider, there is a maximum volume setting in the amplifier to prevent excessive volume output being selected accidentally. The default is 40.
- To pair Bluetooth headphones or speakers, navigate to **Settings** ➤ **Audio** ➤ **Bluetooth Output** and select **Pair New Device**. Paired devices will be listed under **Paired Devices**.
- Bluetooth headphones cannot be used with the **Bluetooth** input source.
- To receive an **Auracast** broadcast, navigate to the **Bluetooth Auracast** input.
- To transmit an **Auracast** broadcast, navigate to **Settings** ➤ **Audio** ➤ **Bluetooth Output** and select the **Auracast** tile, ensuring that the state says **Auracast On**.



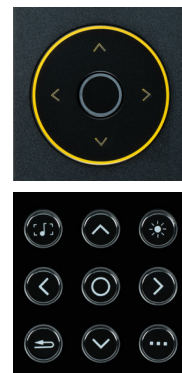
- To switch off the **Bluetooth** network, navigate to the **Input Setup Menu**, select the **Bluetooth Input**, and disable **Auto Switch**. Then, choose a non-**Bluetooth** input and disable **Auracast** in the **Bluetooth Output** menu.

Selecting a Preset

- Use the **Settings** ➤ **Presets** menu via the **Settings** button 



- Press **Left/Right** on the remote control or front panel to highlight the **Presets** menu.
- Press the **Centre (OK)** button on the remote control or front panel to access the **Presets** List.
- Use the **Left/Right** arrows to scroll through available **Presets**.
- Press the **Centre (OK)** button to select the highlighted **Preset**.
- The selected **Preset** is shown on the front panel display.



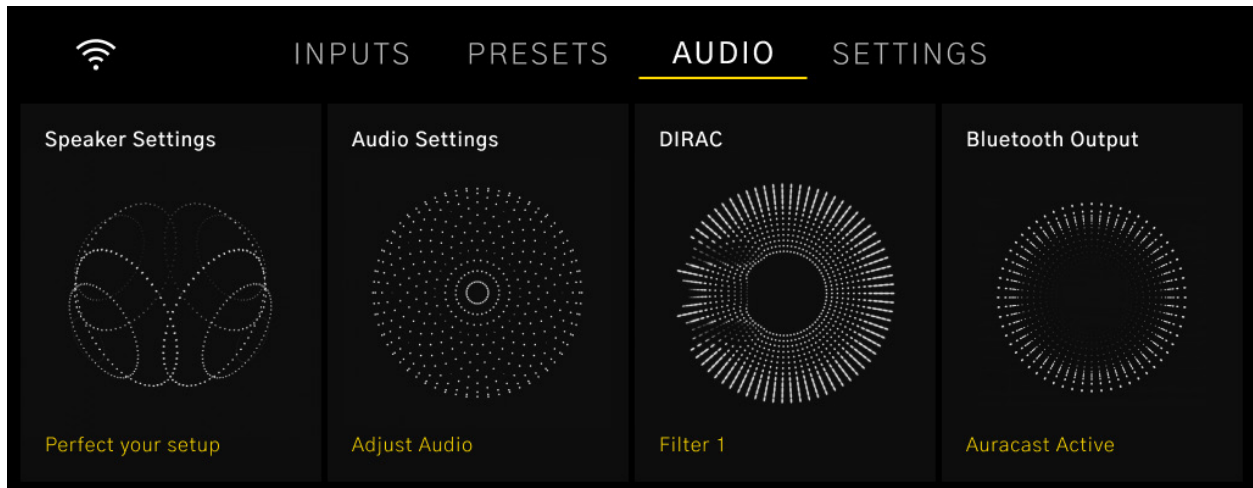
Changing the order of your Internet Radio presets using the ARCAM Radia Control App

- Start playback of the Internet Radio station you wish to assign to a different preset position.
- On the playback screen, select the ★ (Favourite) icon.
- The app will display your current preset locations.
- Select the preset position that you want to replace.
- The currently playing station will be saved to the selected preset location, replacing the existing preset.

Note: Replacing a preset removes the previously saved station from that preset position.

Choosing Your Audio Settings

Settings ➤ **Audio** (access the menu via the **Settings** button) 

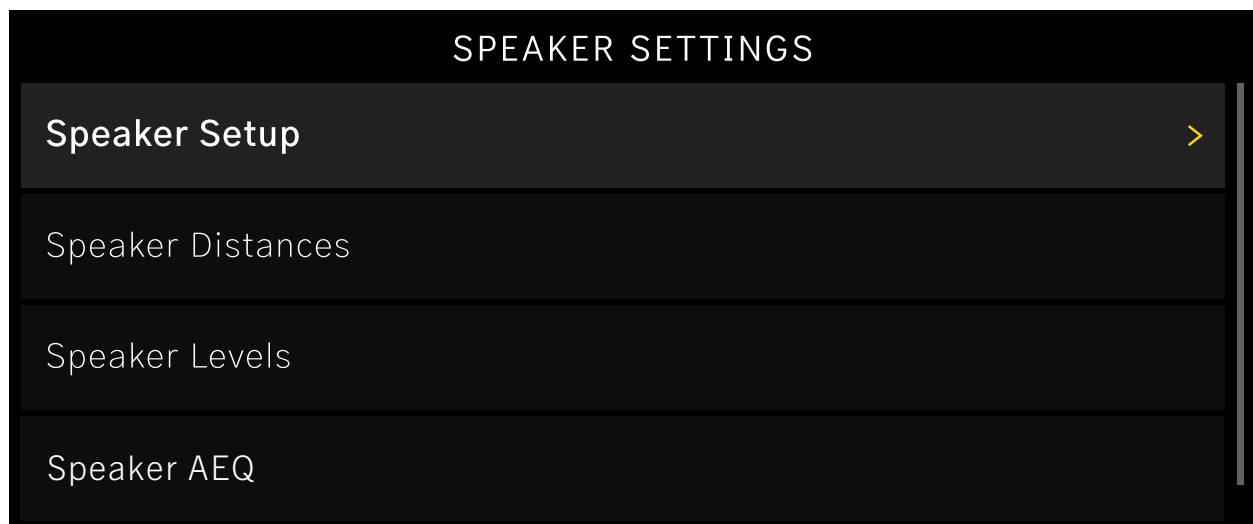


- Press **Left/Right** on the remote control or front panel to highlight the **Audio Menu**.
- Press the **Centre (OK)** button on the remote control or front panel to enter the **Audio Menu List** (Speaker Settings, Audio Settings, DIRAC, Bluetooth Output).
- Use the **Up/Down** Arrows to scroll through available choices.
- Press the **Centre (OK)** button to select the highlighted menu item.



Speaker Settings

Settings ➤ **Audio** ➤ **Speaker Settings**



Speaker Setup

[Settings](#) ➤ [Audio](#) ➤ [Speaker Settings](#) ➤ [Speaker Setup](#)

SPEAKER SETUP

Main Speakers	< 7 >
Subwoofers	1
Height Speakers	4
Height Types	All Top
Crossover Options	All Full Range
Custom	

- Adjust the number of **Main Speakers** (imaging speakers), **Subwoofers**, and **Height Speakers** to match your system, if necessary. The defaults are **7, 1, and 2**, respectively.
- Then, specify the **Height Types** that you have: **All Top** (ceiling) vs. **All Height** (Wall-mounted, **AVA25** only) vs. **Dolby Enabled**, or a mix (**Mixed (Custom)**). The default is **All Top**.
- Next, specify the **Crossover Frequency** for each pair of speakers (Full range - 200Hz). **80Hz** is the default setting.
- Finally, if you have a more complex system and wish to customize the **Crossover Frequencies** and **Slope**, as well as **Channel Output Assignments**, select **Custom**.

Custom Menu AVA15

Settings ➤ Audio ➤ Speaker Settings ➤ Speaker Setup ➤ Custom

In the **Custom Menu**, the following configurations options can be found:

- **Front Left + Right** (Full Range, 30 Hz - 200 Hz in 10 Hz steps): Set the crossover frequency of the front stereo speaker pair. The Front Left + Right speakers cannot be disabled. The default is **80 Hz**.
- **Front Centre** (None, Full Range, 30 Hz - 200 Hz in 10 Hz steps): Enable and set the crossover frequency of the front centre (dialogue) speaker. Selecting **None** will disable the centre speaker output with dialogue being redirected to the **Front Left** and **Right** speakers. The default is **80 Hz**.
- **LFE** (None, SUB 1): Assign the **LFE** channel to the first subwoofer in the system. When **None** is selected, with no other **Sub** outputs enabled, **LFE** will be re-directed to **Front Left** and **Right** speakers.
- **Surround Left + Right** (None, Full Range, 30 Hz - 200 Hz in 10 Hz steps): Enable and set the crossover frequency of the surround speaker pair. Selecting **None** will disable surround and surround back speakers. The default is **80 Hz**.
- **Surround Back Left + Right/Subs** (None, Surround Back Left + Right, Sub 2, Subs 2 + 3): Enable and select the type of speakers that are being used by the Surround Back outputs. Select **Surround Back Left + Right** for main speaker setups with 7+ speakers. The Surround Back Left and Right channels can only be used when Surround Left + Right outputs are enabled. Where using 5 speakers or less, these outputs can be used for additional subwoofers. The default is **Surround Back Left + Right**.
- **Height 1** (None, Top Front, Top Middle, Front Dolby Enabled): If height speakers are specified in the speaker setup, this option should be defined to match the physical location of the **Height 1** loudspeakers. The default is **Top Middle**.
- **Height 2** (None, Top Back, Rear Dolby Enabled, Front Wide, Sub 2, Sub 2 + 3): This setting allows the selection of channels to be assigned to **Height 2**. For example, if 4 height speakers are specified in the speaker setup, **Top Back** or **Rear Dolby Enabled** should be chosen to match the speaker layout. If **Front Wide** speakers or additional subwoofers are included in the speaker layout, the corresponding option should be chosen instead. The default is **None**.
- **Crossover Filter Slope** (12 - 24dB/Octave): This changes the filter slope for all crossover filters at the same time. The default value is **24dB**.
- **Assign Height 2 to Amplifier Outputs** (No, FL + FR, SBL + SBR): If the system includes a second set of height speakers (for example in a 5.1.4 configuration), the second row of height speakers can be assigned to the **Surround Back** speaker outputs or to the **Front Left/Right** speaker outputs. Alternatively, if the above **Height 2** setting has been configured to the **Front Wide** option, this will assign the **Front Wide** channels to the amplifier outputs selected here. The default setting is **No**.
- **Assign Height 1 Amplifier Outputs to** (Height 1, Front Wide, Bi-Amp FL + FR): Changing this option allows the designation of the **Height 1** speaker outputs for **Front Wide** speakers or for **Bi-amplified Front Left/Right** speakers. For more details on bi-amplification, see page 14. By default, **Height 1** channels are assigned to the **Height 1** outputs.
- **Crossover Frequency** (Full Range, 30 - 200Hz in 10Hz steps): For non-default selected speakers, this option will be available to define the crossover frequency. The default is **80 Hz**.

Custom Menu AVA25

Settings ➤ Audio ➤ Speaker Settings ➤ Speaker Setup ➤ Custom

In the **Custom Menu**, the following configurations options can be found:

- **Front Left + Right** (Full Range, 30 Hz - 200 Hz in 10 Hz steps): Set the crossover frequency of the front stereo speaker pair. The Front Left + Right speakers cannot be disabled. The default is **80 Hz**.
- **Front Centre** (None, Full Range, 30 Hz - 200 Hz in 10 Hz steps): Enable and set the crossover frequency of the front centre (dialogue) speaker. Selecting **None** will disable the centre speaker output with dialogue being redirected to the Front Left and Right speakers. The default is **80 Hz**.
- **LFE** (None, SUB 1): Assign the **LFE** channel to the first subwoofer in the system. When None is selected, with no other Sub outputs enabled, LFE will be re-directed to Front Left and Right speakers.
- **Surround Left + Right** (None, Full Range, 30 Hz - 200 Hz in 10 Hz steps): Enable and set the crossover frequency of the surround speaker pair. Selecting **None** will disable surround and surround back speakers. The default is **80 Hz**.
- **Surround Back Left + Right/Subs** (None, Surround Back Left + Right, Sub 2, Subs 2 + 3): Enable and select the type of speakers that are being used by the Surround Back outputs. Select **Surround Back Left + Right** for main speaker setups with 7+ speakers. The Surround Back Left and Right channels can only be used when Surround Left + Right outputs are enabled. Where using 5 speakers or less, these outputs can be used for additional subwoofers. The default is **Surround Back Left + Right**.
- **Front Wides/Subs** (Front Wides, Sub 2, Sub 2 + 3): If front wide speakers are specified in the speaker setup, this option should be defined as **Front Wides**. If additional subwoofers are included in the speaker layout, one or two additional subwoofers can be enabled through these RCA connectors.
- **Height 1** (None, Height Front, Top Front, Top Middle, Front Dolby Enabled): If height speakers are specified in the speaker setup, this option should be defined to match the physical location of the **Height 1** loudspeakers. The default is **Top Middle**.
- **Height 2** (None, Top Back, Height Back, Rear Dolby Enabled, Sub 2, Sub 2 + 3): This setting allows the selection of channels to be assigned to **Height 2**. For example, if 4 height speakers are specified in the speaker setup, **Top Back**, **Rear Height**, or **Rear Dolby Enabled** should be chosen to match the speaker layout. If additional subwoofers are included in the speaker layout, the corresponding option should be chosen instead. The default is **None**.
- **Height 3 (AVA25 only)** (None, Top Middle, Middle Dolby Enabled, Sub 4, Sub 4 + 5): This setting allows the selection of channels to be assigned to **Height 3**. For example, if 6 height speakers are specified in the speaker setup, **Top Middle** or **Middle Dolby Enabled** should be chosen to match the speaker layout. If additional subwoofers are included in the speaker layout, the corresponding option should be chosen instead. The default is **None**.
- **Crossover Filter Slope** (12 - 36dB/Octave in 12dB steps): This changes the filter slope for all crossover filters at the same time. The default value is **24dB**.
- **Assign Height 2 to Amplifier Outputs** (No, FL + FR, SBL + SBR): If the system includes a second set of height speakers (for example in a 5.1.4 configuration), the second row of height speakers can be assigned to the **Surround Back** speaker outputs or to the **Front Left/Right** speaker outputs. Alternatively, if the above **Height 2** setting has been configured to the **Front Wide** option, this will assign the **Front Wide** channels to the amplifier outputs selected here. The default setting is **No**.
- **Assign Height 1 Amplifier Outputs to** (Height 1, Front Wide, Bi-Amp FL + FR): Changing this option allows the user to designate the **Height 1** speaker outputs to be used for **Front Wide** speakers or for

Bi-amplified Front Left/Right speakers. For more details on bi-amplification, see page 14. By default, **Height 1** channels are assigned to **Height 1** outputs.

- **Crossover Frequency** (Full Range, 30 - 200Hz in 10Hz steps): For non-default selected speakers, this option will be available to define the crossover frequency. The default is **80 Hz**.

Speaker Distances

Settings > Audio > Speaker Settings > Speaker Setup > Speaker Distances

- Under the **Speaker Distances Menu**, the following adjustments are available to allow for time alignment across all of the speakers in the system:
 - **Distance/Delay Units** (Metric, Imperial, Time): Switches the measurement system used to determine the distance/delay applied to the outputs. The default is **Metric**. If **Dirac Live** has been run, it will automatically switch to **Time**.
 - **Distance/Delay** (0 - 14m in steps of 0.1m, 0 - 46ft in steps of 4in, or 0 - 41.25ms in steps of 0.25ms): the distance or delay for each output of your **Radia** product. The default is **0**.

Speaker Levels

Settings > Audio > Speaker Settings > Speaker Setup > Speaker Levels

Under the **Speaker Levels** menu, your product provides a test tone to facilitate speaker level calibration.

- To begin calibration, select **Play Test Tone** and enable it by selecting **On**.
- Next, navigate to **Front Left**. The test tone will play through the corresponding speaker output, allowing for the adjustment of the channel output in increments of 0.5 dB, up to +/- 10 dB, in order to reach the desired output level. The default is **0 dB**.
- Repeat this process for each speaker output until you've finished calibrating all speaker output levels and all subwoofer output levels.

Speaker AEQ

Settings > Audio > Speaker Settings > Speaker Setup > Speaker AEQ

The **ARCAM** team has prepared a special performance improvement for those who have purchased **Radia Loudspeakers** to complement their **Radia Electronics. Anechoic EQ (AEQ)** uses anechoic speaker

measurements to optimise performance, improving accuracy, tonal balance, and overall sound quality. The following settings can be chosen for each of the **Main Speaker** (horizontal layer speaker) channels in the menu for an even more elevated listening experience (The default is **None**):

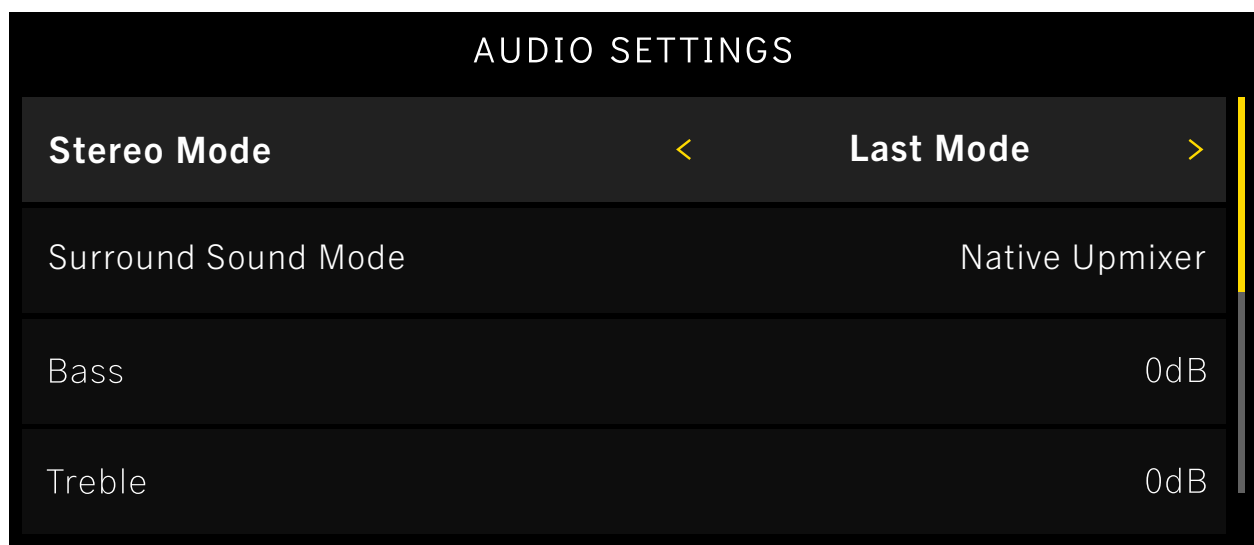
Speaker Model	AEQ Setting in Electronics Menu
ARCAM R45 / Revel F346	Profile 1
ARCAM R35 / Revel F345	Profile 2
ARCAM R25 / Revel M146	Profile 3
ARCAM R15 / Revel M145	Profile 4
ARCAM R35C / Revel C245	Profile 5

- **Note:** Only use the AEQ setting that matches the speaker model that is connected to the corresponding output channel.
- **Note:** When using both AEQ and Dirac, AEQ should be applied **PRIOR** to Dirac calibration for best results.

Audio Settings

Settings ➤ **Audio** ➤ **Audio Settings**

Changing these settings affects only the input that is currently in use (i.e. the corresponding settings for all other inputs remain unaltered).



Stereo Mode (Last Mode, Stereo, Dolby Surround, DTS Neural:X, MCH Stereo): This item controls what the product does when it receives a 2-channel (stereo) signal. The default is **Stereo**.

- **Last Mode:** The product will automatically select whichever mode was last utilised.
- **Stereo:** This setting essentially performs a pass-thru function, sending the L/R channels to the L/R loudspeakers with no modification to the channel content or imaging.
- **Dolby Surround:** Leverages **Dolby Surround** to perform an upmix from 2 channels to the chosen speaker layout.
- **DTS Neural:X:** Leverages **DTS Neural:X** to perform an upmix from 2 channels to the chosen speaker layout.
- **MCH Stereo:** Duplicates the L/R channels to all speaker pairs in the chosen speaker layout, creating a “multi-channel stereo” experience.

Surround Mode (Last Mode, Native, Native Upmixer, Dolby Surround, DTS Neural:X, Stereo Downmix): This item controls what the product does when it receives a surround signal (anything with more than 2 channels, but normally 5.1 or 7.1). The default is **Native**.

- **Last Mode:** The product will automatically select whichever mode was last utilised.
- **Native:** This setting essentially performs a pass-thru function, sending the L/R channels to the L/R loudspeakers with no modification to the channel content or imaging.
- **Native Upmixer:** Automatically chooses the upmixing technology associated with the content format. A **Dolby** signal will exercise **Dolby Surround**, whereas a **DTS** signal will instantiate **DTS Neural:X**. In either case, an upmix to the chosen speaker layout will occur.
- **Dolby Surround:** Leverages **Dolby Surround** to perform an upmix from the incoming surround format to the chosen speaker layout.
- **DTS Neural:X:** Leverages **DTS Neural:X** to perform an upmix from the incoming surround format to the chosen speaker layout.
- **Stereo Downmix:** Performs a downmix of the incoming signal to an output of 2-channels (L/R).

Bass (+/- 12dB): Increase or decrease the amount of bass in the system. The default is **0 dB**.

Treble (+/- 12dB): Increase or decrease the amount of treble in the system. The default is **0 dB**.

Getting Started with Dirac Live

Settings ➤ Audio ➤ Dirac

Your **ARCAM Radia** product includes **Dirac Live Room Correction**. It also supports **Bass Control** and **Active Room Treatment** through separate licences purchased through **Dirac**. The filters available to you depend on which licences you own.

- **Room Correction (RC):** The core technology. Uses patented algorithms to analyse your room's impact on sound and digitally correct it, delivering a wider sweet spot, clearer soundstage, and tighter bass.
- **Bass Control (BC):** An add-on technology. Builds on RC by automating subwoofer setup and integration, providing consistent bass across the entire listening area. Particularly beneficial in multi-subwoofer systems.

- **Active Room Treatment (ART):** An add-on technology. Calibrates your speakers as a unified system and uses each speaker to actively reduce room decay, minimising lingering bass for maximum clarity.

Note: If you have **ARCAM Radia Loudspeakers** or **Revel Performa4 Loudspeakers**, enabling **AEQ** prior to **Dirac** calibration is recommended for even better overall performance. See the **Speaker AEQ** section on Page 34 for more information.

Preparing to measure your room

Calibration with Dirac Live can be performed using either:

- The **Dirac Live** app on **Android** or **iOS** devices for a quick calibration of your system.
- The **Dirac Live** software installed on a **PC** or **Mac** for a detailed calibration of your system.
- Install the **Dirac Live** software on the device of your choice and sign in with your **Dirac** account.

Allow the software to detect your Radia product.

- Your **ARCAM Radia** AV product and your device must be on the same network (rescan or enter the IP address manually if required).

Connect a measurement microphone:

- When using an **Android** or **iOS** device, connect the supplied microphone to the **USB-C** socket on the front of the **AVA15/AVA25**.
- When using **Dirac Live** on a **PC/Mac**, connect the supplied microphone to a **USB** port on the computer and select it in the software.

Volume calibration defines the volume of the measurement sounds that are made in your room.

- Place the microphone on a stand at your main listening position at seated ear height, pointing upwards.
- The supplied microphone can be mounted to an adjustable tripod for more stable and accurate measurements.
- Press the Play icon to produce a noise from your speakers.
- Adjust the **Master Volume** level so the speaker measures approximately -15 dB to -30 dB when playing the calibration noise.
- If the measurements are too quiet, the accuracy of the optimisation will be poor because of background noise.
- If the measurements are too loud, the measurements can be distorted which will trigger an error.
- If either issue occurs during measurements, adjust the **Master Volume** again.
- For fine tuning using the **PC/Mac** version, each channel can be adjusted down so that each output is more consistent. Set the volume of the quietest speaker with the **Master Volume**, then adjust the volume of louder speakers with the individual channel sliders.

Select your Sweet Spot.

- Select a **Sweet Spot** arrangement that is closest to your listening area
- Use **Focused** for an accurate calibration for a single listening position
- Use **Wide** for a calibration of more than a single listening position
- Use **Expanded** for a calibration of a larger listening area

You are now ready to take measurements.

Measuring your room with Dirac Live

For best results:

- The supplied microphone can be mounted to an adjustable tripod for more stable and accurate measurements. Other calibrated microphones can be used.
- Measure all suggested positions. More positions will improve accuracy.
- Do not stand between the speakers and the microphone.
- Keep the room as quiet as possible during measurement.
- You can use the measurement timer to allow for you to leave the room during measurements.
- For **Dirac Live ART**, 9 measurements are required.
- Don't forget to save your project!

Once measurement is complete, navigate to Filter Design and choose your filter type according to your licence.

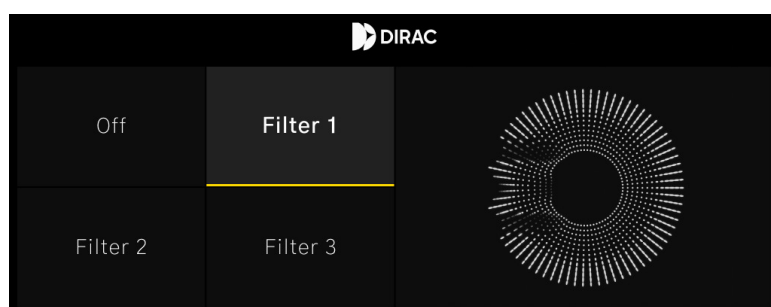
- **Room Correction:** Adjust the target curve per speaker or group. Crossovers are not calculated and must be set manually on your product.
- **Bass Management:** The same as **Room Correction** but adds crossover settings.
- **Bass Control:** Set crossover points automatically or manually and optionally exclude speakers from bass management, then select **Calculate**. The software computes optimal distances, levels, and crossovers automatically.
- **ART:** The software automatically assigns parameters for each speaker, so no manual adjustment is required before selecting **Calculate**. Advanced users can manually determine how much one speaker supports another.

Note: For both **BC** and **ART**, the calculated distances, levels, and crossover settings cannot be adjusted on your product after the filter has been uploaded.

In filter design, advanced features on the **PC/Mac** version allow for fully custom target setting. **Harman Target Curves** can be downloaded from **AVA15/AVA25** product page and loaded into **Dirac Live** for proven performance by optimisation in your room.

Exporting and using filters

After designing a filter, export it to one of your **ARCAM Radia** product's filter slots and assign it a name. Multiple filters can be stored for convenient switching. The default is **Off**.



On the device:

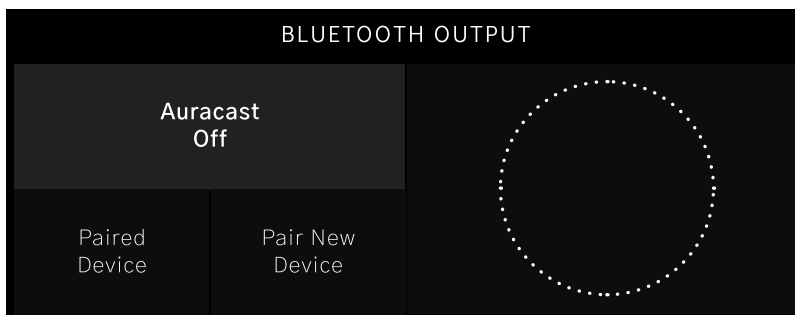
- Select your active filter within the device settings or using the **Dirac** button on the remote control.
- Each filter stores its acoustic correction along with per-speaker levels and distances.
- You may wish to create different filters for film viewing, social listening, or focused music sessions, each tailored for a specific sound profile.

Notes:

- Save your project file within the software so it can be reloaded later to create new filters without repeating the measurement process.
- Certain manual speaker and bass settings are locked when a **BC** or **ART** filter is active.
- Calibration filters can only be utilized with the speaker configuration with which they were measured. If the speaker configuration changes, the filters for the previous configuration will no longer be applicable.

Bluetooth Output

Settings ▶ **Audio** ▶ **Bluetooth Output**



Auracast (Off, On):

- Select the **Auracast** tile. Press the centre button to toggle the state. **Auracast** is **Bluetooth** broadcast audio, enabling your product to transmit sound wirelessly to multiple compatible speakers or headphones without pairing.

Paired Device (Device List):

- Select this tile to view the list of previously paired **Bluetooth** devices and select one as the listening device. When a device is connected, you can also disconnect the device via this tile.

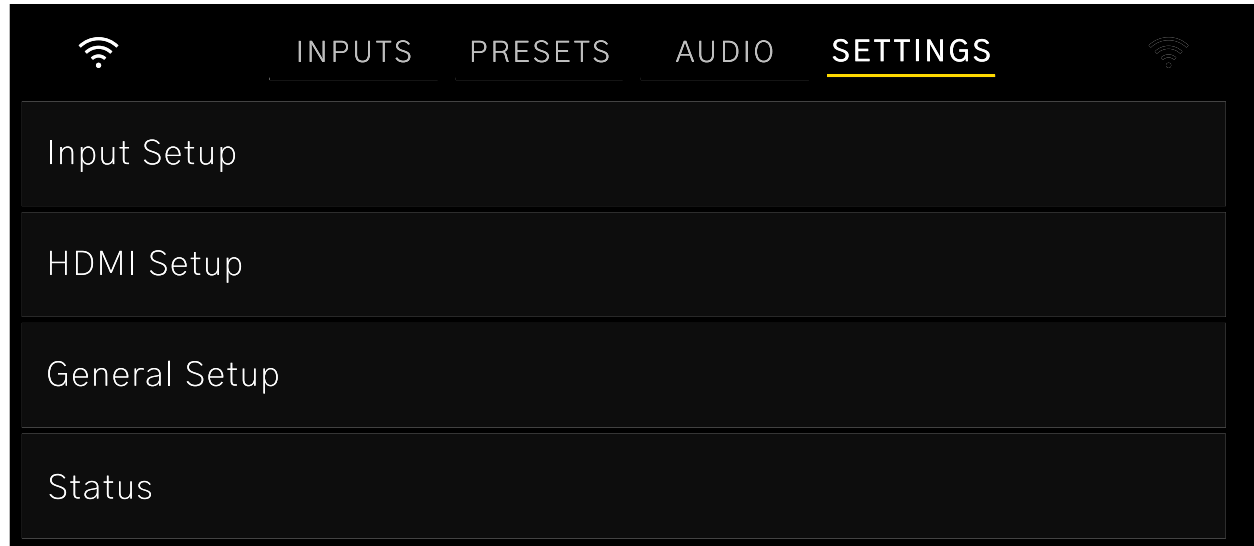
Pair New Device:

- Select this tile to pair a new **Bluetooth** listening device and connect it for listening.

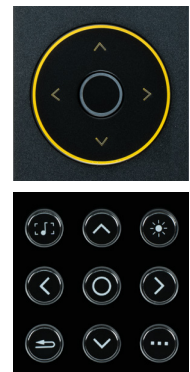
Note: See **Page 30** for more information on **Bluetooth** functionality.

Settings

Settings ▢ Settings



- Press **Left/Right** on the remote control or front panel to highlight the **Settings Menu**.
- Press the **Centre (OK) button** on the remote control or front panel to enter the **Settings List (Input Setup, HDMI Setup, General Setup, Status)**.
- Use the **Up/Down Arrows** to scroll through available choices:
- Press the **Centre (OK) button** to select the highlighted **Menu Item**.



Input Setup

Settings ▢ Settings ▢ Input Setup

Input Settings (Global, Auracast, Bluetooth, Stream, Analogue 1 - Analogue 3, Digital 1 - Digital 4, HDMI 1 - HDMI 7, TV):

- For most users, starting with the **Global** option is recommended, as it will allow the configuration of most of the **Input Settings** for all **Inputs** at the same time.
- To configure one particular **Input**, select that **Input** here and then adjust the settings as desired.
- The following pages will explain the various ways that **Inputs** can be configured.

Global Settings

Global Settings apply to multiple **Inputs** and are globally configurable. When **Global** is selected for **Input Settings**, adjusting the below settings will set the same result for all **Inputs**.

Maximum Volume (0 - 100):

- Sets the maximum volume level for all **Inputs**, preventing volume exceeding a defined maximum setting. The default is **100**.

Dolby Surround Mode (Off, Music, Movie, Night):

- Selects a preferred **Dolby Surround** processing mode for an input, optimising playback per content type. The default is **Off**.

Audio Compression (Off, Medium, High):

- Applies dynamic range compression to reduce volume differences between quiet and loud audio passages. The default is **Off**.

DTS Dialogue Control (0dB - 6dB):

- Adjusts dialogue level within **DTS** content, improving speech clarity without altering overall volume significantly. The default is **0 dB**.

Auro-matic 3D Options (Small, Medium, Large, Movie, Speech):

- Adjusts the **Auro-Matic 3D upmixer** for different room sizes and content types, optimising spatial effect, immersion, and dialogue clarity. The default is **Medium**. Note: **AVA25** only.

Auro-matic Strength (0 - 16):

- Adjusts the level of **Auro-Matic 3D** processing by blending the original (unprocessed) and upmixed (processed) signal, allowing you to control the intensity of the immersive effect. The default is **8**.
Note: **AVA25** only.

Stereo Configuration (As Speaker Setup, Full Front Left + Right Only, Full Front Left + Right + Subs, Xover Front Left + Right with Subs):

- Defines how stereo audio is routed to speakers and subwoofers, based on system configuration. The default is **As Speaker Setup**.

Stereo Configuration Sub Trim (-12dB - 0dB):

- Adjusts subwoofer output level for stereo playback without affecting overall system calibration. The default is **0 dB**.

All Inputs (Individually)

What follows is a set of parameters that can be adjusted individually for each **Input** (i.e. not globally). In order to adjust a specific **Input**, select that particular **Input** for the **Input Settings** parameter.

Input Name (Use the **ARCAM Radia** Control App to customize):

- Allows the input to be renamed using the control application for easier identification. The default matches the name of the physical input.

Show/Hide Input (Show, Hide):

- Controls visibility of the input in menus and selection lists. The default is **Show**.

TV

The following is a set of parameters that can be adjusted only for the **eARC (TV) Input**.

Auto Switch (No, Yes):

- Automatically switches to this input when an active signal is detected from the connected source. The default is **Yes**.

Lip Sync (Auto, 5ms - 250ms in increments of 5ms):

- Adjusts audio delay to maintain synchronisation with video, either automatically or manually. The default is **Auto**.

HDMI Inputs

This parameter can be adjusted only for the **HDMI Inputs**.

IMAX Enhanced (Auto, Off, On):

- Controls whether **IMAX Enhanced** processing is applied automatically based on the detection of **IMAX Enhanced** content or manually enabled or disabled. AVA25 only. The default is **Auto**.

Streaming & Bluetooth

The **Streaming & Bluetooth Inputs** have one unique parameter each:

Streaming Maximum Volume (0 - 100):

- This setting creates a unique maximum volume ceiling for the **Streaming** input. In order for it to be utilized, it must be lower than the **Global Maximum Volume** setting. The default is **50**.

Bluetooth Maximum Volume (0 - 100):

- This setting creates a unique maximum volume ceiling for the **Bluetooth** input. In order for it to be utilized, it must be lower than the **Global Maximum Volume** setting. The default is **50**.

Analogue, Digital, Streaming, Bluetooth & Auracast

These parameters can be adjusted only for the **Analogue, Digital, Streaming, Bluetooth & Auracast Inputs**.

Delay (0ms - 250ms in increments of 5ms):

- Applies manual audio delay to align sound timing with associated video or other sources. The default is **0 ms**

Video Source (None, HDMI 1 - HDMI 7):

- Assigns a specific **HDMI** video input to be associated with this audio or streaming input. The default is **None**.

HDMI Setup

Settings ▸ Settings ▸ HDMI Setup

Zone 1 OSD (On, Off):

- Enables or disables on-screen display information for **Zone 1** on the connected display device. The default is **On**.

Zone 1 Out (1 & 2, 1 Only, 2 Only):

- Selects which **HDMI** output(s) carry the **Zone 1** video signal to connected displays. **Zone 2** only applies to the **AVA25**. The default is **1 & 2**.

HDMI Audio to TV (On, Off):

- Determines whether audio is output to the connected television via **HDMI** connection. The default is **Off**.

CEC (On, Off):

- Enables **HDMI Control (CEC)**, allowing compatible devices to communicate and operate together automatically. The default is **On**.

Volume Control by HDMI (On, Off):

- Allows volume adjustments to be controlled by a connected **HDMI** device, such as a television remote. The default is **On**.

Power Control by HDMI (On, Off):

- Enables connected **HDMI** devices to power the unit on or off automatically. The default is **On**.

Standby HDMI Pass-thru (Off, Last, HDMI 1 - HDMI 7):

- Allows selected **HDMI** input to pass video and audio to the television while the unit is in standby. The default is **Off**.

General Setup

Settings ▸ Settings ▸ General Setup

Halo Brightness (100, 75, 50, 25, Off):

- Adjusts the illumination level of front panel halo lighting, or disables it completely. The default is **100**.

Maximum On Volume (0 - 100):

- Limits maximum volume level applied automatically when the unit is powered on. The default is **40**.

ECO Timer (20 Minutes, Off):

- Automatically places the unit into standby after a period of inactivity to reduce power consumption. The default is **20 Minutes**.

Display Timer (5s, 10s, 30s, 1 Minute, Off):

- Sets duration front panel display remains illuminated before dimming or switching off. Only applicable when **Display Brightness** is set to **Off**. The default is **5s**.

Standby Operation (Network Standby, Eco Standby):

- Selects standby mode, balancing reduced power consumption against retained network connectivity. The default is **Network Standby**.

Power On State (On, Last State, Standby):

- Determines unit behaviour after power-up, including restoring previous state or entering standby. The default is **On**.

Language (English, Français, Deutsch, Español, Polski):

- Selects the language used for on-screen menus and system interface text. The default is **English**.

Auto Software Update (Notify Only, Update in Standby, Update Immediately):

- Controls how software updates are handled, including notification, automatic standby updates, or immediate installation. The default is **Notify Only**.

USB Update (Cancel, Confirm):

- Initiates the manual software update process using a connected **USB** storage device. Select Confirm to begin the update.

Reset Factory Defaults (Cancel, Confirm):

- Restores all system settings to original factory configuration, removing all customised adjustments.

Reset Network Defaults (Cancel, Confirm):

- Clears all stored network settings, including Wi-Fi configuration and network connections.

Reset Bluetooth Defaults (Cancel, Confirm):

- Removes paired devices and resets Bluetooth settings to original factory state.

Restore USB Backup (Cancel, Confirm):

- Loads previously saved system configuration from **USB** storage, replacing current settings.

Store USB Backup (Cancel, Confirm):

- Saves your system configuration to **USB** storage for future use.

Zone 2 Setup

Settings ▸ Settings ▸ Zone 2 Setup

- **Active** (Off, On): Utilize this setting to enable/disable **Zone 2** output via **HDMI/RCA**. The default is **Off**.
- **Zone 2 Input** (Follow Z1, Streaming, Bluetooth, Analogue 1 - Analogue 3, Digital 1 - Digital 4, HDMI 1 - HDMI 7): Choose which input will be sent to **Zone 2** connectors. The default is **Follow Z1**, which sends the same source material to **Zone 2** as is being played in **Zone 1**.

- **Zone 2 Fixed Volume** (Off, On): Enable or disable a fixed volume setting for **Zone 2** . The default is **Off**.
 - **Zone 2 Volume** (0 - 100): set the volume for **Zone 2**. The default is **30**.
 - **Zone 2 Max Volume** (0 - 100): set the maximum volume for **Zone 2** . The default is **50**.
 - **Zone 2 Max On Volume** (0 - 100): set the maximum startup volume for **Zone 2** . The default is **50**.
-

Status

[Settings](#) ➤ [Settings](#) ➤ [Status](#)

Parameters listed under the Status menu are informational only. In other words, they do not require configuration, and they simply describe information about the product, its network status, and the incoming signal.

Incoming Signal

Input:

- The selected source connector currently providing audio/video signal to receiver.

Incoming Audio Format:

- Audio encoding format received from source (e.g. **PCM**, **Dolby**, **DTS**).

Incoming Sample Rate:

- Digital audio sampling frequency of incoming signal, typically 44.1–192kHz.

Incoming Video Format:

- Resolution and refresh format of incoming video signal from source.

Network Status

Name:

- Assigned network device name for identification on local network.

Network Connection:

- Type of network link in use (Ethernet or Wi-Fi).

Internet Connection:

- Indicates whether device successfully reaches external internet services.

IPv4 Address:

- Current local network address using standard IPv4 addressing format.

IPv6 Address:

- Current network address using newer IPv6 addressing standard format.

MAC Address (Ethernet):

- Unique hardware identifier assigned to wired network interface.

MAC Address (Wi-Fi):

- Unique hardware identifier assigned to wireless network interface.

Software Versions**HOST:**

- Main system firmware version controlling overall device operation.

NET:

- Network module firmware version handling streaming and connectivity functions.

DSP:

- Digital signal processor firmware version responsible for audio processing.

BT:

- Bluetooth module firmware version supporting wireless audio connections.

HDMI:

- HDMI board firmware version managing audio/video switching and compatibility.

LCD:

- Display firmware version controlling front panel screen behavior and updates.

Last Exception:

- Most recent system error or fault recorded for diagnostic purposes.

Serial Number:

- Unique product identifier used for service, support, and registration.

Streaming

Your **Radia** device can be connected to and play music from the following apps and services:

- Spotify Connect
- Tidal Connect
- Qobuz Connect
- Amazon Music
- Apple Airplay
- Google Cast
- airable
- Roon (requires setup in Roon software)

From the **ARCAM Radia** app, you can access setup favorites and access other services including but not limited to:

- Internet Radio
- Podcasts
- Connected USB media
- Local network storage (UPnP)

Supported Audio Formats

File Type	Bit Depths	Sample Rates
AAC	16 or 24 bit	44.1, 48, 88.2 or 96 kHz
AIFF	16, 24 bit	44.1, 48, 88.2, 96, 176.4, 192 kHz
ALAC	16, 24 bit	44.1, 48, 88.2, 96, 176.4, 192 kHz
FLAC	16, 24 bit	44.1, 48, 88.2, 96, 176.4, 192 kHz
MP3	16 bit	44.1 or 48 kHz
OGG	16 bit	44.1 or 48 kHz
WAV	16, 24 bit	44.1, 48, 88.2, 96, 176.4, 192 kHz

Troubleshooting

Problem	Check the following
No Sound/No Picture	Is the unit correctly plugged in and switched on? Is the correct input selected? Is the amplifier muted? Is the unit in protection mode (described below)? Is the connection between the source device and the unit correct? Is the connection between the source device and the TV/Projector correct? For example, is the HDMI cable connected to eARC-enabled connectors on both ends? Is the HDMI cable working correctly? Trying another HDMI cable may fix the issue.
Sound cuts out unexpectedly	The unit may enter a protection mode if a fault is detected. Following any of the faults described below, the amplifier will turn itself off. To continue using the unit, the fault must be resolved and the unit must be turned OFF then back ON. The white front panel LED will indicate the fault type, as follows: FAST FLASHING: The internal temperature of the unit reached an unsafe level. Allow the unit to cool down. 1 sec FLASHING: A fault condition occurred in the amplifier. Inspect all the speaker cables to make sure none of them are shorted together. This fault is more likely when bare wires are being used to make speaker connections. 2 sec FLASHING: A power fault was detected. If a condition re-occurs immediately, consult your ARCAM dealer or our support team.
The amplifier does not respond to the remote control	Does the light at the top of the remote control flash when the button is pressed? If not, replace batteries in the remote control.
The front panel display is blank	Is the display dimmed to "Off"? Press  on the remote control to change the display brightness. Is the unit correctly plugged in and switched on? Is the unit in standby?
No sound from speakers	Is the output muted? Are the speaker cables connected correctly at both ends? See the Connecting Speakers section of this owner's manual.
Cannot discover the device in an app	Is the device correctly plugged in and switched on? Does the device have a network connection, wired (Ethernet) or Wi-Fi? For Wi-Fi connections, has setup been completed using the ARCAM Radia app? Is your smartphone or tablet connected to the same local network? For Google Cast, ensure Google Terms are accepted in the ARCAM Radia App.
Hum on an analogue input	Are all cables making a good connection? If necessary withdraw the input cable from the connector and plug it fully in again (turn the power off before doing this). If the Hum stops when the cable is removed, replace the cable with another. If the hum originates only when one particular source device is connected, check with the supplier or manufacturer of that device, it may have a fault.
Bluetooth Issues	Try re-pairing your device. Try Reset Bluetooth Defaults in the General Setup menu, and then re-pairing your device.
Network Issues	Use the ARCAM Radia Control App to connect your ARCAM device to a Wi-Fi network. Connect an Ethernet cable from your ARCAM Radia AV device to your home router. Try Reset Network Defaults in the General Setup menu.
Still having trouble?	Try a factory reset of the unit. Contact ARCAM customer support.

Specifications

Decoding/Encoding	AVA15	AVA25
Maximum Channel Count	12	16
Reassignable Channels	Front, Surround Back, Height Channels	Front, Surround Back, Height Channels
Dolby	Dolby Atmos, Dolby TrueHD, Dolby Atmos Height Virtualisation, Dolby Surround	Dolby Atmos, Dolby TrueHD, Dolby Atmos Height Virtualisation, Dolby Surround
DTS	DTS:X, DTS HD Master, DTS Neural:X, DTS Virtual:X	DTS:X, DTS HD Master, DTS Neural:X, DTS Virtual:X
IMAX Enhanced	No	Yes
Auro 3D	No	Yes
MPEG H	Yes	Yes
HDMI		
Inputs/Outputs	7/2	7/2 (Zone 1), 1 (Zone 2)
HDMI/ HDCP Versions	2.1a/2.3	2.1a/2.3
Resolution support resolution/framerate	Up to 8K/60Hz or 4K 120Hz	Up to 8K/60Hz or 4K 120Hz
Supported Dynamic Range Profiles	HDR, HDR10, HDR10+, HDR10+ Gaming, Dolby Vision, HLG	HDR, HDR10, HDR10+, HDR10+ Gaming, Dolby Vision, HLG
Supported HDMI features	Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), CEC, eARC/ARC (Zone 1, Output 1)	Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), CEC, eARC/ARC (Zone 1, Output 1)
On Screen Display	Yes	Yes
Streaming		
Works with (apps)	ARCAM Radia, Spotify Connect, Tidal Connect, Qobuz Connect, Roon (Ready)	ARCAM Radia, Spotify Connect, Tidal Connect, Qobuz Connect, Roon (Ready)
Works with (services)	Apple Airplay, Google Cast	Apple Airplay, Google Cast
ARCAM Radia supported services (Global)	Internet Radio, Podcasts, UPnP	Internet Radio, Podcasts, UPnP
Supported Hi-res media:	FLAC, WAV (LPCM), AAC, ALAC, AIFF, MP3, OGG	FLAC, WAV (LPCM), AAC, ALAC, AIFF, MP3, OGG
Supported Hi-res Bit depth:	16, 24	16, 24
Supported samples rates (kHz):	Up to 192 kHz	Up to 192 kHz
Gapless Playback:	Yes	Yes
Frequency response:	20Hz—20kHz ± 0.05dB	20Hz—20kHz ± 0.05dB
Digital Inputs		
Number of inputs (Coaxial/Toslink)	2/2	2/2
Supported Sample Rates (kHz)	Coaxial (RCA)	192, 176.4, 96, 88.2, 48, 44.1
	Optical (Toslink)	96, 88.2, 48, 44.1
Bit depths (bit)	Coaxial & Optical (Toslink)	24, 16
		24, 16
Frequency response	20Hz—20kHz ± 0.2dB	20Hz—20kHz ± 0.2dB
Signal/noise ratio (A-wtd, ref. 50W, 0dBFS)	100dB	100dB
Analogue Inputs		
Number of inputs	3x RCA pairs	3x RCA pairs
Signal/noise ratio (A-wtd, ref. 50W, 1V input)	100dB	100dB
Frequency response	20Hz—20kHz ± 0.2dB	20Hz—20kHz ± 0.2dB
Preamplifier Outputs		
Number of Outputs XLR/RCA	0/12	0/16
Single-ended (RCA) peak output level per channel	2V RMS	2V RMS
THD+N (20 Hz to 20 kHz)	~100dB	~100dB
Amplification		
Amplifier Channels	9, Class D	9, Class AB
Continuous power output (0.5% THD), per channel		
8Ω, 20Hz - 20kHz, 2 channels driven	85W	120W
4Ω, 1kHz, 2 channels driven	150W	160W
8Ω, 1kHz, 9 channels driven	65W	75W
4Ω, 1kHz, 9 channels driven	65W	80W
Harmonic distortion, 80% power, 8Ω at 1kHz	0.003%	0.005%
Wireless Specifications		
Bluetooth Profile	5.4; A2DP Sink/Source, AVRCP, Snapdragon Sound, AAC, LE Audio, Auracast, GATT, VCP, MCP, BAP, CAP	5.4; A2DP Sink/Source, AVRCP, Snapdragon Sound, AAC, LE Audio, Auracast, GATT, VCP, MCP, BAP, CAP
General		
Mains voltage	100-120V/220-240V 50/60Hz	100-120V/220-240V 50/60Hz
Power consumption (maximum)	900W	900W
Dimensions W x D (including speaker terminals) x H (including feet)	432 x 391.7 x 170mm	432 x 459.1 x 170mm
Weight (net)	10 kg	21.5 kg
Weight (packed)	15.7 kg	28.21 kg

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Being Roon Ready means that ARCAM uses Roon streaming technology, for an incredible user interface, simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise.



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Regulatory Communication

FCC Information (for US customers)

PRODUCT

CONTAINS TRANSMITTER MODULE FCC ID:

2ADBM-LS10, API-QCC5181

This product complies with Part 15 of the 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.

IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by **ARCAM** may void your authority, granted by the FCC, to use the product.

CAUTION (For Bluetooth/Wi-Fi)

- To comply with FCC RF exposure compliance requirement, separation distance of at least 20 cm must be maintained between this product and all persons.
- This product and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

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

IC Information (For Canadian customers)

PRODUCT

CONTAINS TRANSMITTER MODULE IC:

20276-LS10, 6132A-QCC5181

This product complies with RSS-247 of Industry Canada. 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. This Class B digital apparatus complies with Canadian ICES-003.

CAUTION

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication. (i) the device for operation in the band 5,150 – 5,250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. (ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5,250 – 5,350 MHz and 5,650 – 5,850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Informations sur IC (pour les clients canadiens)

APPAREIL

CONTIENT MODULE ÉMETTEUR IC:

20276-LS10, 6132A-QCC5181;

Cet appareil est conforme à la norme CNR-247 du Canada. L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Canadian customers / Pour les clients

canadiens: **CAN ICES-3 (B) / NMB-3 (B) "for indoor use only"**

ATTENTION

Afin de réduire le risque d'interférence aux autres utilisateurs, il faut choisir le type d'antenne et son gain de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour l'obtention d'une communication satisfaisante.

(i) les dispositifs fonctionnant dans la bande 5150–5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

(ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250 – 5350 MHz et 5650 – 5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

RF Exposure Information

This equipment complies with FCC / I C 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. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

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).

Safety Information (for European customers)

Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack.

Handle the power cord carefully. Hold the plug when unplugging the cord.

Keep the unit free from moisture, water, and dust.

Unplug the power cord when not using the unit for long periods of time.

Do not obstruct the ventilation holes.

Do not let foreign objects into the unit.

Do not let insecticides, benzene, and thinner come in contact with the unit.

Never disassemble or modify the unit in any way.

Ventilation should not be impeded

Ventilation openings should not be obstructed by items, such as newspapers, tablecloths or curtains.

Naked flame sources such as lighted candles should not be placed on the unit.

Safety Information (for European customers)

Observe and follow local regulations regarding battery disposal.

Do not expose the unit to dripping or splashing fluids.

Do not place objects filled with liquids, such as vases, on the unit.

Do not handle the mains cord with wet hands. When the switch is in the OFF position, the equipment is not completely switched off from MAINS.

The equipment shall be installed near the power supply so that the power supply is easily accessible.

A note about recycling

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive

Correct disposal of this product

These markings indicate that this product should not be disposed with other household waste throughout the EU.



To prevent possible harm to the environment or human health from uncontrolled waste disposal and to material resources, this product must be disposed of responsibly.

To dispose of your product, please use your local return and collection systems or contact the installer where the product was purchased.



Pb

AVA15/AVA25/AVA35/AVP45 Wireless Specification	
Bluetooth	Bluetooth operation in 2402MHz to 2480MHz with max power 20dBm e.i.r.p
Wi-Fi	802.11b/g/n operation in 2412MHz to 2472MHz with max power 20dBm e.i.r.p
	5GHz RLAN 802.11a/n/ac operation in 5150MHz to 5250MHz with max power 23dBm e.i.r.p (TPC is not supported)
	5GHz RLAN 802.11a/n/ac operation in 5250MHz to 5350MHz with max power 20dBm e.i.r.p (TPC is not supported)
	5GHz RLAN 802.11a/n/ac operation in 5470MHz to 5725MHz with max power 20dBm e.i.r.p (not used in China)
	5.8G RLAN operation in 5725MHz to 5850MHz with max power ≤14dBm e.i.r.p for EU, ≤33dBm e.i.r.p for China
AVRM-01 Wireless Specification	
Bluetooth	Bluetooth operation in 2402MHz to 2480MHz with max power 20dBm e.i.r.p
Power Consumption	
Power consumption (Network standby)	< 2.0W
Power consumption (Standby)	< 0.5W
Off Mode	< 0.3W

型号核准的代码在产品外观可见

Atenção: conforme lei brasileira nº 11.291, a exposição prolongada a ruídos superiores a 85dB pode causar danos ao sistema auditivo.

Incorpora produto homologado pela ANATEL sob número 24327-23-07120 and 01173-26-07120. Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para mais informações, consulte o site da Anatel: <https://www.gov.br/anatel/pt-br>.

Restrictions in the 5 GHz band: According to Article 10 (10) of Directive 2014/53/EU, the packaging shows that this radio equipment will be subject to some restrictions when placed on the market in Belgium (BE), Bulgaria (BG), the Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain(ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania(LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands(NL), Austria(AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK),Finland (FI), Sweden (SE), the Turkey (TR), Norway(NO), Switzerland (CH), Iceland (IS), Liechtenstein (LI), and the United Kingdom in respect of Northern Ireland (UK(NI)). The 5150 to 5350 MHz frequency range is restricted to indoor use. This equipment should be installed and operated with a minimum distance of 20cm between the product and your body.

Use Restrictions: This device is restricted to indoor use when operating in the 5150 to 5350 MHz frequency range in the following countries:

	BE	EL	LT	PT
	BG	ES	LU	RO
	CZ	FR	HU	SI
	DK	HR	MT	SK
	DE	IT	NL	FI
	EE	CY	AT	SE
	IE	LV	PL	UK(NI)



Belgium (BE), Greece (EL), Lithuania(LT), Portugal (PT), Bulgaria (BG), Spain(ES), Luxembourg (LU), Romania (RO), Czech Republic (CZ),France (FR), Hungary (HU), Slovenia (SI), Denmark (DK), Croatia (HR), Malta (MT), Slovakia (SK), Germany (DE), Italy (IT), Netherlands(NL), Finland (FI), Estonia (EE), Cyprus (CY), Austria(AT), Sweden (SE), Ireland (IE), Latvia (LV), Poland (PL), Northern Ireland (UK(NI)).



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Features, specifications, and appearance are subject to change without notice.



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