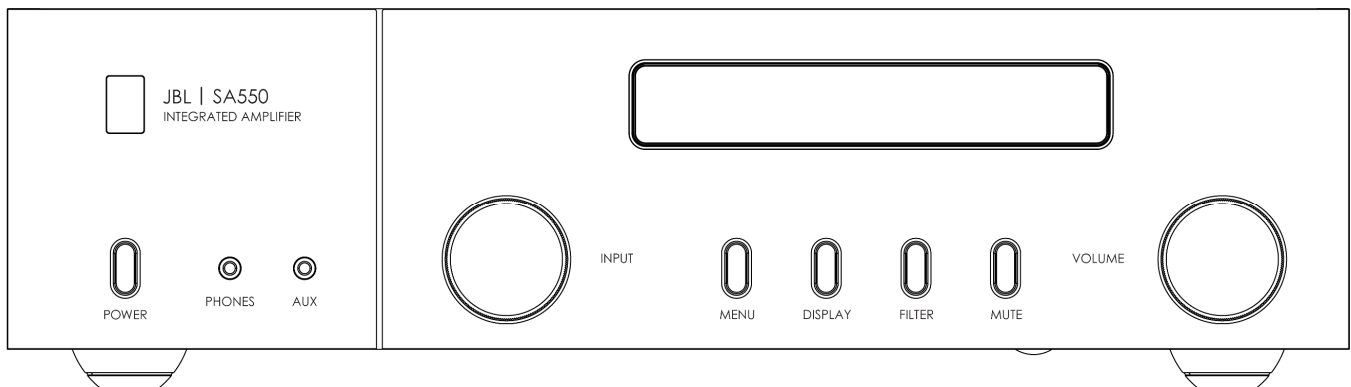




# SA550 Classic - Integrated Amplifier with Bluetooth

## Owner's Manual



# IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with a dry cloth.
6. Do not block any ventilation openings. Install this apparatus in accordance with the manufacturer's instructions.
7. Do not install this apparatus near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat.
8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
10. Use only attachments/accessories specified by the manufacturer.

11. 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.



12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
14. To disconnect this apparatus from the AC mains completely, disconnect the power-supply cord plug from the AC receptacle.
15. The mains plug of the power-supply cord shall remain readily operable.
16. This apparatus is intended to be used only with the power supply and/or charging cable provided by the manufacturer.

The following instructions may not apply to waterproof devices. Refer to your device user manual or quick start guide for more waterproof instruction if any.

- Do not use this apparatus near water.
- Do not expose this apparatus to dripping or splashing, and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.

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

| CAUTION                              |  |
|--------------------------------------|--|
| RISK OF ELECTRIC SHOCK. DO NOT OPEN. |  |
|                                      | THIS SYMBOL ON THE PRODUCT MEANS THERE IS UNINSULATED, DANGEROUS VOLTAGE WITHIN THE PRODUCT ENCLOSURE THAT MAY PRESENT A RISK OF ELECTRICAL SHOCK. |
|                                      | THIS SYMBOL ON THE PRODUCT MEANS THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THIS GUIDE.   |

Visit the product page at [JBL.com](http://JBL.com) and download the Safety Sheet for a full list of safety instructions.

## 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.).

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## Thank you for choosing JBL

For over 75 years, JBL has been creating best in class audio equipment for concerts, studios, theaters, and homes around the world. JBL is the trusted choice of leading recording artists and sound engineers.

The JBL SA550 is designed to provide you with reliable amplification for decades to come, all with exceptional musicality so you get the most enjoyment from your music.

This handbook is a guide to installing and using the SA550 and includes information on its more advanced features.

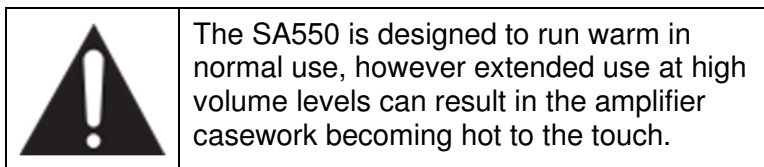
In the unlikely event of any fault, or you require technical assistance, please contact our dedicated support teams by email using [luxurysupport@harman.com](mailto:luxurysupport@harman.com), or by telephone using +44 (0) 1707 668012 or +1 888 6914 171. Or, if you simply require further information about JBL products, our network of dealers will be happy to help you. Further information can also be found on the JBL website at [JBL.com](http://JBL.com).

## Package Contents

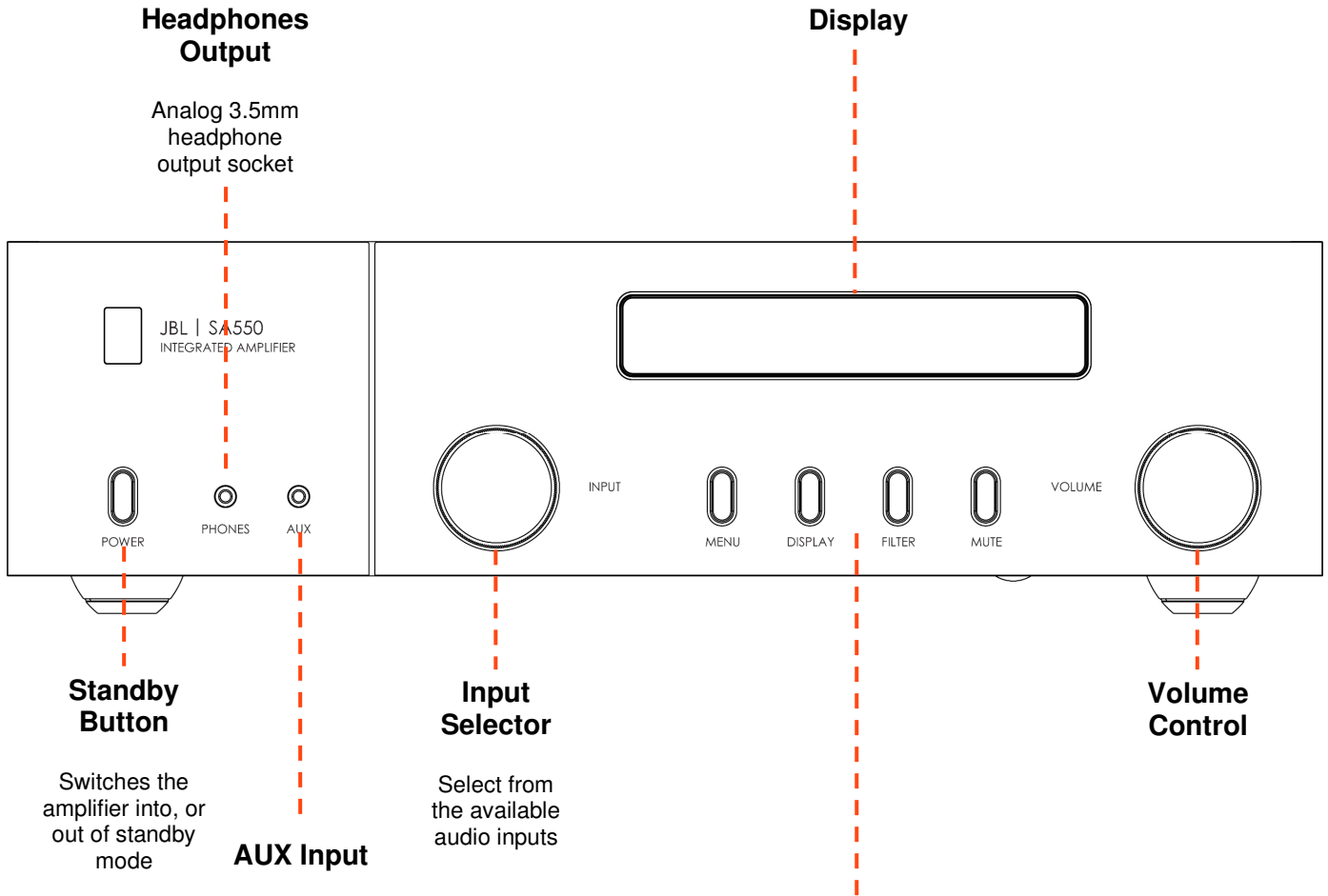
- JBL SA550 Classic integrated amplifier
- IR Remote
- 2x AAA Batteries for the remote control
- Region Specific Power Cords
- Quick Start Guide
- Safety and Compliance Document

## Placing The Unit

- Place the amplifier on a level, firm surface, avoiding direct sunlight and sources of heat or damp.
- Do not place the SA550 on top of a power amplifier or other source of heat.
- Do not place the amplifier in an enclosed space such as a bookcase or closed cabinet unless there is good provision for ventilation. The SA550 is designed to run warm during normal operation.
- 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.
- Do not place your record deck on top of this unit. Record decks are very sensitive to the noise generated by mains power supplies which will be heard as a background 'hum' if the record deck is too close.
- The normal function of the unit may be disturbed by strong electromagnetic interference. If this occurs, simply reset the unit with the power button, or move the unit to another location.

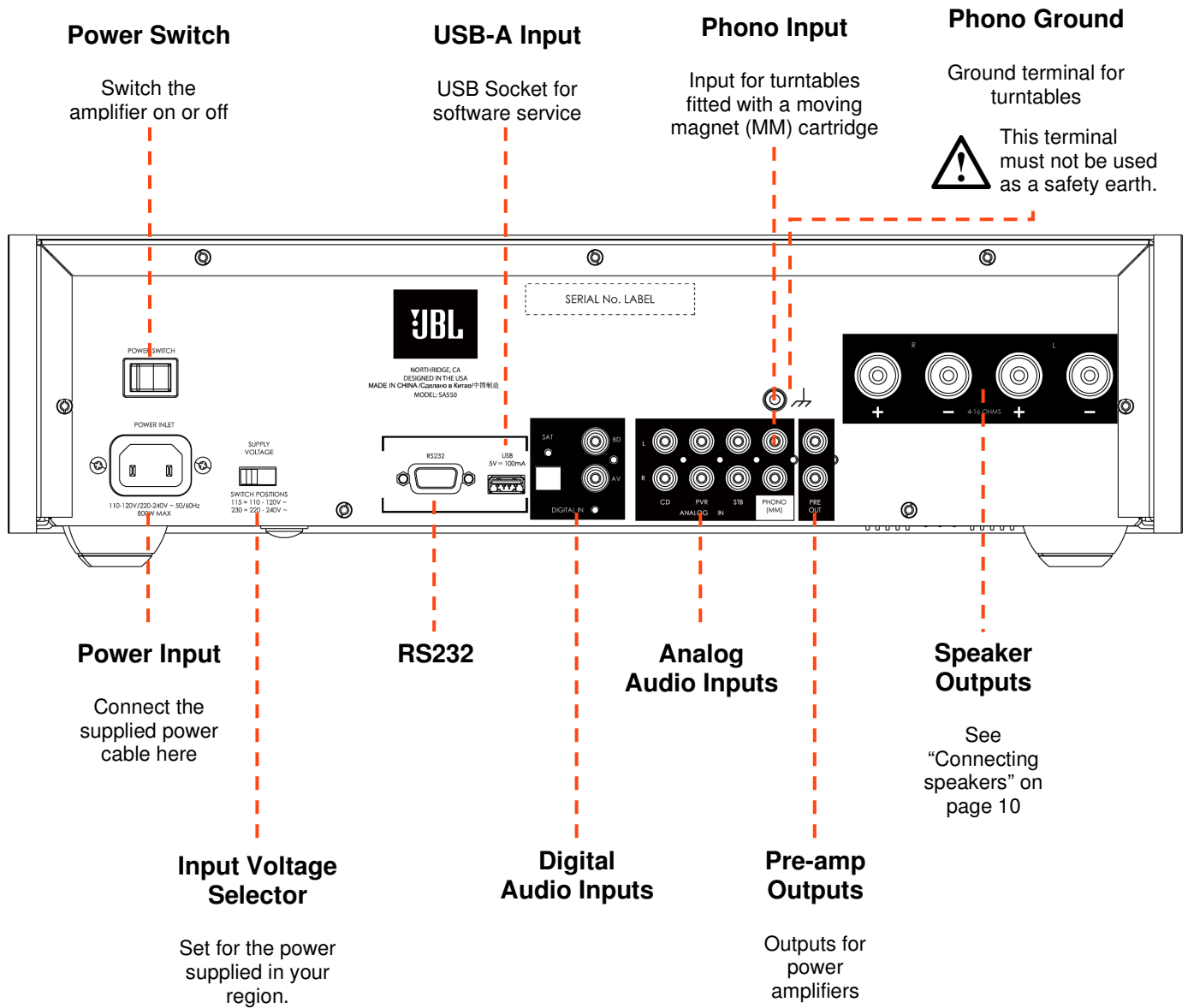


# Front Panel

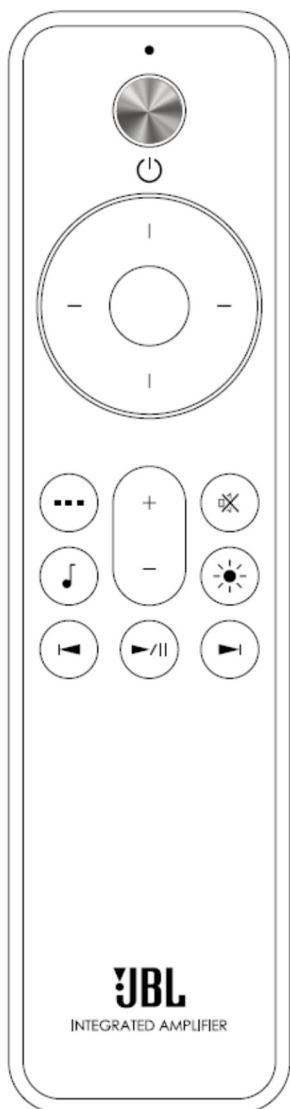


| Front Panel Buttons |   |
|---------------------|---|
| MENU                | Enter the settings menu – see page 13   |
| DISPLAY             | Dim or switch off the display           |
| FILTER              | Select a different Digital Audio filter |
| MUTE                | Mute and unmute the audio output        |

# Rear Panel



# Remote Control



|  |  |
|--|--|
|  | Toggle Standby Operation                       |
|  | Menu Navigation<br>Center button to select     |
|  | Volume Control                                 |
|  | Mute On or Off                                 |
|  | Display Brightness                             |
|  | Transport Keys (Play/Pause, Skip back/forward) |
|  | Menu button                                    |
|  | Music info button                              |

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.



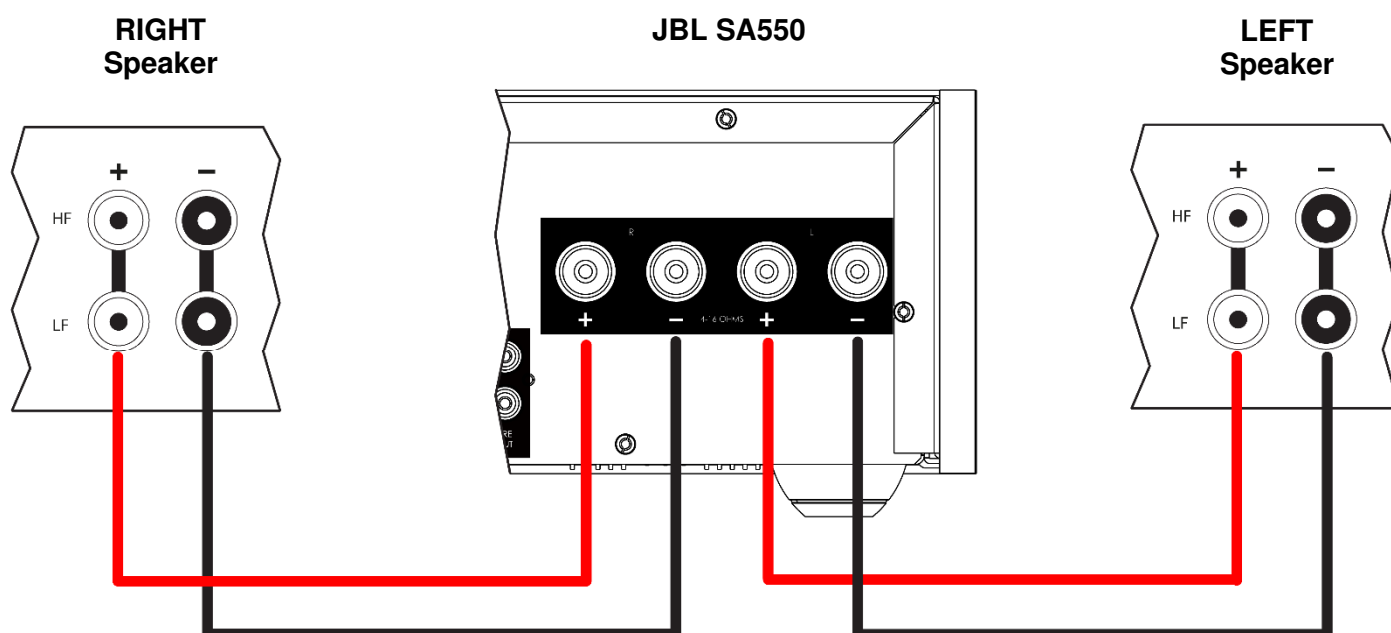
## Connecting Loudspeakers

Step 1, ensure power is disconnected from the amplifier.

Step 2, using speaker cables, connect the red positive terminal of the right speaker output (R+) on the amplifier to the positive (+) terminal of your right speaker.

Step 3, connect the black negative terminal of the right speaker output (R-) on the amplifier to the negative (-) terminal of your speaker.

Step 4, repeat the process for the left speaker, using the terminals labelled L+ and L- and on the amplifier.



### Top Tips

- Check all connections thoroughly. Ensure that exposed wires or cables are not touching each other or the amplifier's chassis (which can cause a short circuit), and that you have connected the positive (+) and negative (-) terminals correctly. Be sure to check the wiring for both the amplifier and the speakers.
- After making connections: switch the amplifier on with no input and reduce the volume to minimum. Select a source signal, and then slowly increase the volume to a suitable listening level to avoid loud sounds or product damage in the event of incorrect connection.
- If you are unsure as to how your system should be connected, please contact your JBL dealer who will be happy to help you.

## Bluetooth Operation

To pair your Bluetooth source device with the SA550, open the Bluetooth settings on your source device and scan for discoverable products to pair with. Select **JBL SA550 #####** from the list.

**By default**, the amplifier can be discovered and paired to when switched on and not connected to another Bluetooth device – **it does not need to be on the BT input**. This function can be overridden by changing the BT Auto SW setting in the menu. To use the menu, see Page 13.

Note: With the **BT Auto SW** setting changed to **Off**, the amplifier must be on the BT input to be discovered by a new device and paired for playing music.

Devices are paired to the amplifier without the sharing of a numerical code.




The amplifier can recall 5 device pairings. If 5 pairings already exist and a new pairing is made, the oldest pairing will be replaced.

### Volume Control

When playing music from Bluetooth, the volume of the amplifier can be controlled from your device. 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.

Note: To adjust the maximum volume from Bluetooth, adjust the **BT Volume** setting in the menu. The default is 50. To use the menu, see Page 13.

### Transport Control

Use the    buttons on the remote to control music playback of your device.

# Operation

## Power

The power switch on the rear panel switches the amplifier on or off. When you have finished making connections, switch the amplifier on.

### Standby

The Standby button on the front panel switches the amplifier between **standby** and **on** (operating).

### Auto Standby

By default, this amplifier is set to enter standby automatically after 20 minutes with no audio playing and no user interaction. This is to meet international power consumption regulations. This can be changed in the menu. To use the menu, see Page 13.

## Selecting Inputs

Audio sources can be selected either using the INPUT selector on the front panel or using the remote control. In each case, the source name corresponds to the labelled input sockets.

The Inputs are:

- BT (Bluetooth)
- Phono (analog – turntable with moving magnet cartridge)
- AUX (analog – front input)
- CD (analog)
- PVR (analog)
- STB (analog)
- CD Digital
- SAT Digital
- MP Digital

Note: The digital inputs only support stereo (PCM) audio. Multichannel audio or encoded audio of any type is not supported.

### Phono Input

The Phono Input includes a pre-amplifier to work with a MM (moving magnet) cartridge on a turntable for playing vinyl.

**NEVER** connect anything other than a turntable through this input. This can result in serious damage to both your amplifier and speakers and will not be covered under warranty.

## USB

The USB socket on this amplifier is only intended for software updates. It is not an audio input.

## Headphones

The headphone socket (PHONES) accepts headphones fitted with a 3.5mm stereo jack. By default, the pre-amp outputs and speakers are muted when the headphones are plugged in.

Note: the speakers and pre-amp outputs can be configured to remain active when headphones are connected using the Headphone Override function in the setup menu. To use the menu, see Page 13.

## Balance Control

The balance of sound between the left and right speakers can be adjusted using the balance control in the menu. To use the menu, see Page 13.

## Processor Mode

Processor mode will fix the volume for one input. It can be assigned to any analog input (excluding Phono). This allows the amplifier to be used in conjunction with a home cinema receiver in a combined home cinema and two channel system.

The input and volume level can be set in the menu. To use the menu, see Page 13.

## Menu


Press the MENU button on the amplifier or the  on the remote control.

Use the Input and Volume controls to navigate the menu, or use the navigation buttons on the remote control.

### Menu Tree

|               |  |
|---------------|--|
| Display       | Select Display Brightness. Default is <b>Full</b> .  |
| Balance       | Set left / right output balance.   |
| Phones Ovr    | Control whether the speaker outputs and pre-outs are muted when a pair of headphones are connected. The default is <b>Off</b> (speakers muted). On = speakers unmuted.   |
| Timeout       | Auto standby duration. Select <b>Off</b> to disable. Default is <b>20m</b> .   |
| BT Auto Sw    | Automatically select BT input when BT device starts playing. Default is <b>On</b> .  |
| BT Volume     | Set maximum volume for BT Input. Default is <b>40</b> .  |
| PM Input      | Select input for fixed volume. Default is <b>None</b> .  |
| PM Volume     | Set volume for fixed volume input. Default is <b>40</b> .  |
| Filter        | Select a digital input filter from the options. Default is <b>Apodizing</b> .  |
| PLL (input)   | Adjusts sensitivity to a digital source device's clock. Normal is suitable for most sources. Select WIDE if noises or audio interruptions occur (most likely from high jitter sources such as a TV or set-top box). Default is <b>Normal</b> . |
| System Code   | Change the IR code set if the amplifier remote commands conflict with another device in your home. Changing this setting does not affect the remote handset. Default is <b>16</b> .  |
| Version       | Displays the software version of the amplifier.  |
| System Update | Initiates a software update from the USB connector.  |
| System Reset  | Restores factory settings.   |
| BT Reset      | Restores factory settings to Bluetooth only – this will delete all stored pairing.   |
| RS232 Stdbby  | Enables RS232 operation when the amplifier is in standby. Default is <b>Off</b> .  |

# Troubleshooting

| Problem  | Check the following  |
|--|--|
| No sound   | <p>Is the amplifier correctly plugged in and switched on?</p> <p>Is the audio source correctly connected, with the correct input selected?</p> <p>Is the amplifier muted?</p> <p>Is the amplifier in protection mode (as described below)?</p>   |
| Sound cuts-out unexpectedly                          | <p>The amplifier may enter a protection mode. The front panel LED indicates the fault type:</p> <ul style="list-style-type: none"> <li>▪ FLASHING BLUE: The internal temperature of the unit reached an unsafe level. Allow the amplifier to cool.</li> <li>▪ FLASHING ORANGE: The amplifier detected an overload (DC offset).</li> <li>▪ FLASHING RED: The amplifier detected a speaker short circuit. Inspect all the speaker cables to make sure none of them are shorted together. This fault is more common when exposed wires are being used to make speaker connections.</li> </ul> <p>In protection mode, the amplifier will turn itself off and power to the speakers will be removed. To continue using the amplifier, the fault must be treated, and the amplifier must be turned OFF then back ON from the power switch on the rear panel.</p> |
| The amplifier does not respond to the remote control | <p>Are there fresh batteries in the remote control?</p> <p>Are you pointing the remote control towards the amplifier window without obstruction?</p>   |
| The front panel display is blank                     | <p>Is the amplifier correctly plugged in and switched on?</p> <p>Is the amplifier in standby?</p> <p>Is the display dimmed to "Off"?</p> <p>Press the  button on the remote control.</p>  |
| Hum on the analogue input                            | <p>Ensure all cables are making a good connection.</p> <p>Try disconnecting the input cable and plug it fully in again (turn the power off before doing this).</p> <p>If the Hum stops when the source is disconnected, the problem is most likely to be in the cable or the source device to which it is connected.</p>   |

# Specifications

|  |                                       |   |
|--|---------------------------------------|---|
| <b>Continuous power output (0.5% THD), per channel</b>         |                                       |   |
| Both channels, 8Ω, 20Hz–20kHz                                  | 90W                                   |   |
| Both channels, 4Ω, at 1kHz                                     | 150W                                  |   |
| Harmonic distortion, 80% power, 8Ω at 1kHz                     | 0.002%                                |   |
| <b>Phono Input</b>   |                                       |   |
| Phono Input  | Moving Magnet (MM)                    |   |
| Input sensitivity at 1kHz                                      | 5mV                                   |   |
| Input impedance  | 47kΩ + 100pF                          |   |
| Frequency response (ref. RIAA curve)                           | 20Hz – 20kHz ± 1dB                    |   |
| Signal/Noise ratio (A-wtd) 50W, ref. 5mV input                 | 80dB                                  |   |
| Overload margin, ref. 5mV at 1kHz                              | 21dB                                  |   |
| <b>Line Inputs</b>   |                                       |   |
| Nominal sensitivity  | 1V                                    |   |
| Input impedance  | 10kΩ                                  |   |
| Maximum input  | 6Vrms                                 |   |
| Frequency response   | 20Hz – 20kHz ± 0.2dB                  |   |
| Signal/Noise ratio (A-wtd) 50W, ref. 1V input                  | 106dB                                 |   |
| <b>Digital Inputs</b>  |                                       |   |
| DAC  | ESS9038K2M                            |   |
| Frequency response   | 20Hz - 20kHz ± 0.05dB                 |   |
| Supported sample rates   | Optical                               | 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz                   |
|  | Coaxial                               | 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz |
| Bit depth  | 16-bit – 24-bit                       |   |
| Total harmonics distortion + Noise                             | 0.0007%                               |   |
| Signal/Noise ratio (A-wtd)                                     | 115dB                                 |   |
| <b>Pre-amplifier output</b>                                    |                                       |   |
| Nominal output level   | 630mV                                 |   |
| Output impedance   | 230Ω                                  |   |
| <b>Headphone output</b>  |                                       |   |
| Load range   | 16Ω – 2kΩ                             |   |
| Output impedance   | 1Ω                                    |   |
| Maximum output level into 600Ω                                 | 5Vrms                                 |   |
| <b>General</b>   |                                       |   |
| Mains voltage  | 100V or 110–120V or 220–240V, 50–60Hz |   |
| Maximum power consumption                                      | 500W                                  |   |
| Dimensions in mm (including feet, control knob and connectors) | 448 W x 124 H x 321 D                 |   |
| Weight (net)   | 11.2kg                                |   |
| Weight (gross)   | 14.0kg                                |   |