

Caspian Streaming and Integrated Manual

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Introduction

the new caspian takes on a whole new direction for Roksan. The new amplifiers have been built and designed on the colabortation of years of Roksan and Monitor Audio engineering knowledge and combined them into what you see today. A solid, reliable, powerful line up of products for any scenario.

Directives



Monitor Audio Group declares that the apparatus “Caspian Streaming Amplifier”, “Caspian Integrated Amplifier” and “Caspian POver Amplifier”. in conformity with the essential requirements and other relevant provisions of Directive 2014/53/EU “.



NOTE: This product must be earthed. Please ensure that other equipment connected to it is earthed according to the manufacturer’s instructions.

Monitor Audio Group declare in own responsibility, that the Monitor Audio products described in this manual is in compliance with the following Standards and is in conformity with the essential requirements of the Radio Equipment Regulations 2017.

AC Mains Supply

Your Caspian Amplifier is set to operate from a fixed supply voltage which is marked on a label next to the mains input plug. The mains lead supplied with this product has an IEC C13 mains plug which is inserted into the Mains Input Socket on the unit’s rear panel. The other end is a moulded plug appropriate to that for your country.

If your lead has been damaged please obtain a complete replacement lead from your dealer.

Should you move to another area where either the mains voltage or the mains plugs are different from those as supplied with your product, please contact the appointed Roksan distributor for assistance.



Please observe correct mains polarity at all times.

The mains fuses are located on the rear panel below the IEC Mains Input Socket. These must only be replaced by the fuse type and rating as described on the fuse rating label on the rear panel of the unit.

If the equipment is likely to be unused for some time, unplug it from the mains supply.



NOTE: This unit contains no user serviceable parts. Do not remove any panels or attempt to service it yourself. Unauthorised servicing will void the warranty.

Maintenance

After disconnecting the product from the mains supply, the casing and front panel may be cleaned with a lightly dampened lint-free cloth. Furniture polish can also be used to clean the amplifier. Avoid using abrasive substances or solvents.

Location

Your amplifier should be located in a well ventilated area and kept away from sources of heat, dust, humidity and direct sunlight.

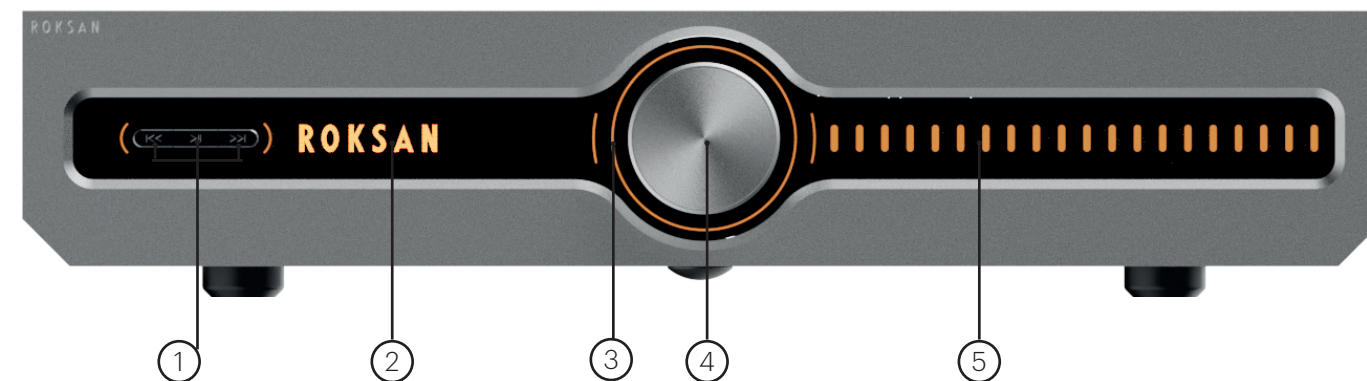
The amplifier may be positioned either as a free standing unit or alongside other audio/video product(s). Never place the amplifier under other electronic equipment, carpet or on any surface likely to hinder normal ventilation. Never allow liquids or other objects to fall into the unit.

We recommend a minimum of 25mm air space all around the amplifiers.

If you have an Integrated or Streaming Amplifier and Power Amplifier do not place them on top of each other. They should be sited on different shelves of the equipment rack, or side by side.

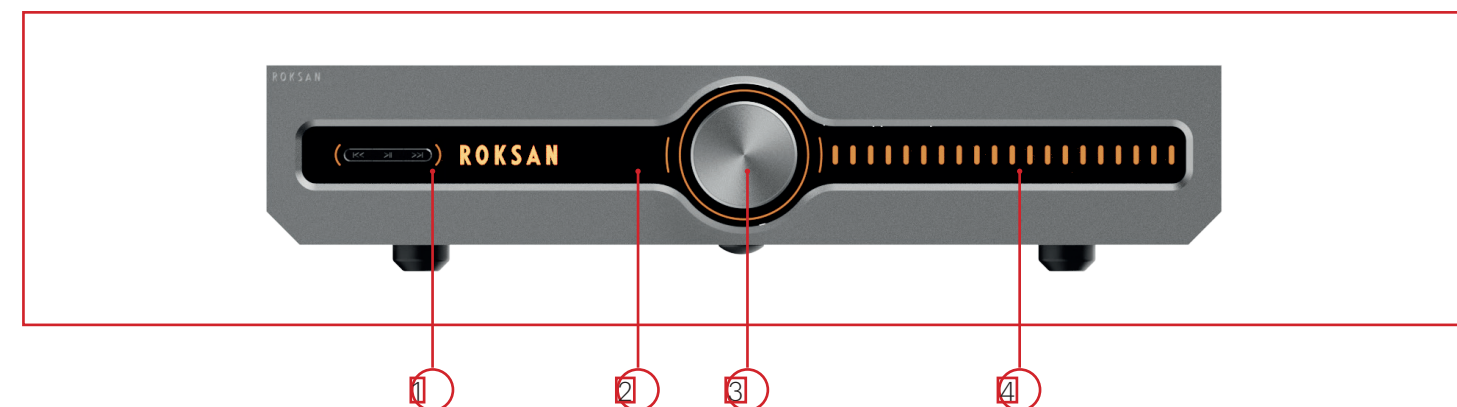
Front Panel Indicators and Controls

Streamer



1. Track control buttons
2. Source Indication Display
3. Ring Display
4. Volume Control and Source Selection
5. Volume Display

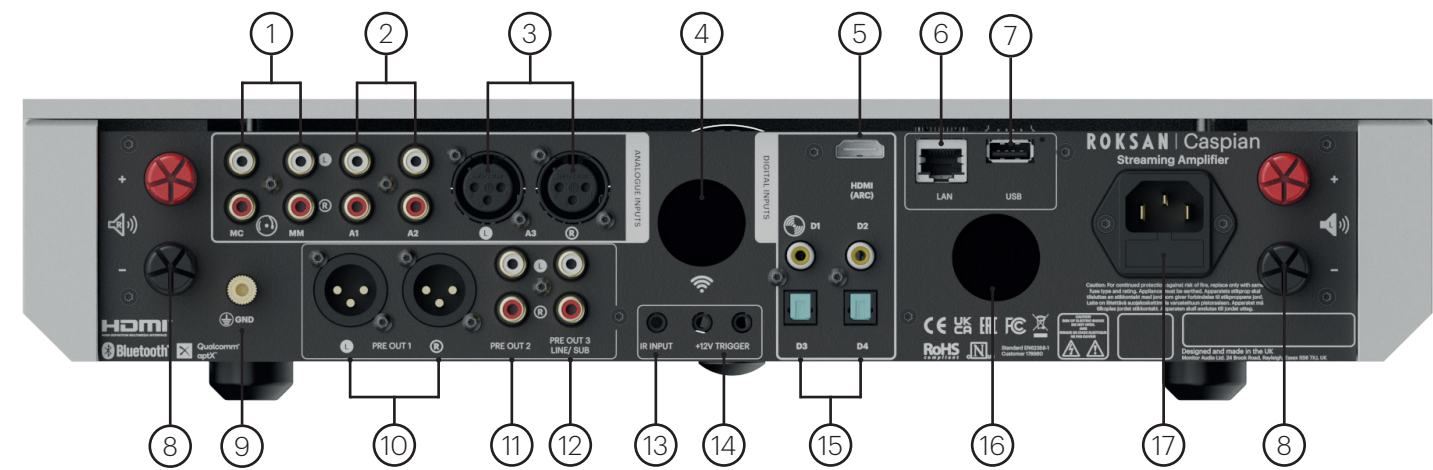
Integrated Amp



1. Source Indication Display
2. Ring Display???
3. Volume Control and Source Selection
4. Volume Display

Rear Panels & Connections

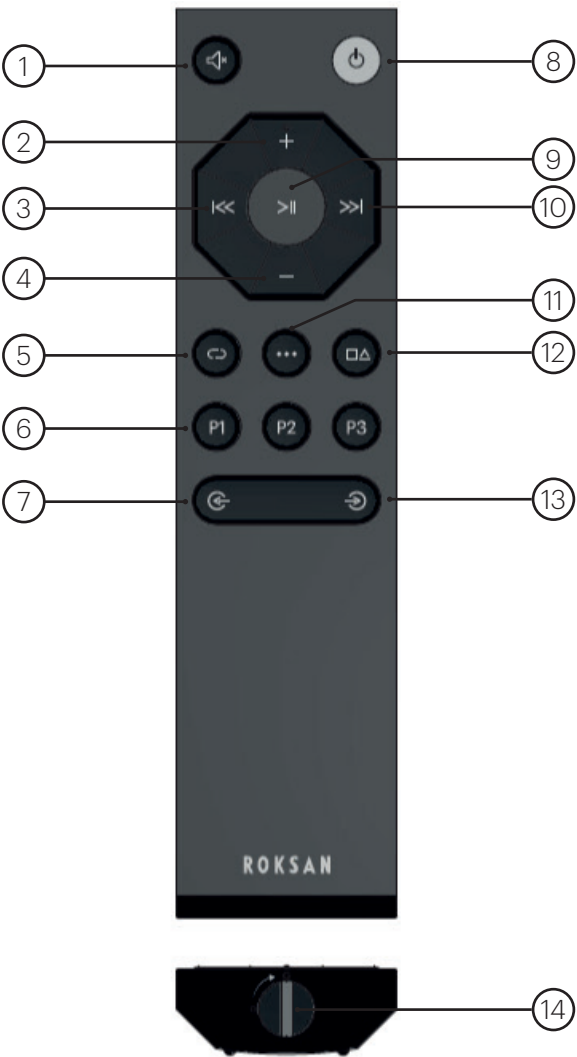
Streaming & Integrated Amplifier



- | | |
|---|--|
| 1. Phono MM & MC Inputs | 10. XLR Analogue Pre Amplifier Outputs |
| 2. RCA Analogue Inputs | 11. RCA Pre Amplifier Outputs |
| 3. Balanced XLR Analogue Inputs | 12. RCA Pre Amplifier/ Subwoofer Outputs |
| 4. Dual Band Wi-Fi Antenna (Streaming Amp Only) | 13. IR Remote Input |
| 5. HDMI ARC Input (Streaming Amp Only) | 14. 12v Trigger Output |
| 6. LAN wired Connection (Streaming Amp Only) | 15. Coaxial and Optical (SPDIF) Inputs |
| 7. USB Input (Streaming Amp Only) | 16. Bluetooth Antenna |
| 8. Loudspeaker Outputs | 17. Mains input and fuse |
| 9. Phono Ground | |

Refer to pages 6 and 7 for further descriptions on the inputs and outputs.

Remote



- | |
|-----------------------------------|
| 1. Mute |
| 2. Volume Up |
| 3. Previous Track/ Scan Backwards |
| 4. Volume Down |
| 5. Repeat - Hold for Shuffle |
| 6. Presets 1, 2 & 3 |
| 7. Previous Input |
| 8. Standby |
| 9. Play/ Pause |
| 10. Next Track/ Scan Forward |
| 11. OSD menu |
| 12. Stop/ Eject |
| 13. Next Input |
| 14. Battery Drawer |

Input Connections

Phono Inputs

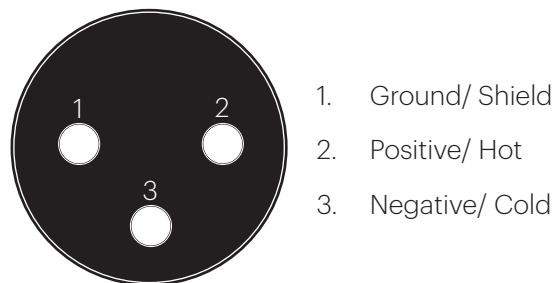
The Caspian amplifier has both a Moving Coil and Moving Magnet phono stage built in. Use the appropriate input for your cartridge. If using the Shiraz, use the MC input and if using the Corus2 or Dana, use the MM input.

RCA Analogue Inputs

The amplifiers have 2 RCA analogue inputs for connecting your sources. Music sense only works on A2 if connecting to an AV receiver

Balanced XLR Inputs

Balanced XLR inputs provide the highest quality analogue signal over long cable runs exceeding 10m. When connecting to the XLR inputs, ensure that the standard wiring configuration is followed:



When only short runs are required, RCA inputs will be preferred. If using longer cable runs or greater noise rejection is required, then XLR connections would be better.

HDMI ARC Input (Streamer only)

Connect the HDMI cable from your TV's ARC output direct to the Caspian Streaming Amplifier to play the TV sound through your stereo speakers.

CEC control over HDMI (control of the amp over HDMI from the TV remote) is possible controlling the volume and mute of the amplifier. Power has to be done manually.

NOTE:- If a Dolby Digital, DTS or non PCM signal is sent to the amplifier, it cannot be decoded and it will mute the output. Set the audio output settings on the TV/ source to PCM.

Ethernet/ LAN (Streamer Only)

For optimum network connectivity, Roksan recommend using a wired network connection. A network connection is needed for BluOS (wired or Wi-Fi).

USB Input (Streamer only)

Connect a USB memory stick or external hard drive with music stored for playback via the BluOS application.

Phono Ground

This grounding terminal is to be used to ground the RCA phono connection from the cartridge/ tonearm where a separate ground is required on the interconnect.

IR Input

If the product is in a different room or cabinet, IR commands can be sent to the unit via the rear panel jack socket labelled Wired IR. Wired IR is compatible with many home automation installations including Logitech Harmony, early Crestron and Control 4 installations. The Wired IR jack socket is an input only and does not provide power, therefore, unsuitable for some remote IR-eye connections that are not self-powered.

12v Trigger

These 3.5mm jack connections can be used to remotely turn the Amplifiers on and off by supplying a 12v signal to them. The output link will only work if there is an input to the product.

Either socket can be used for the input with its partner being used as the linked output, as a convenience to allow a single 12V trigger output from a partnering system to be distributed (to a sub-woofer perhaps) with a second cable.

Digital Inputs

There are 4 digital inputs on the Caspian amplifiers, 2 Coaxial and 2 optical. Use these for connecting the output from your digital source. If using the Attessa ACD Transport with the amplifier, connect this to D1. The 2 products can be configured to work and communicate with each other within MaestroUnite.

spec of digital inputs - copied - Stereo digital audio sources can be connected using AES/EBU, coaxial or optical cable. The PCM stereo format up to 24-bit / 192 kHz is supported by all digital inputs. If using sources that have an option for selecting between PCM and Bitstream or Dolby Digital audio output, select PCM

Power

The moulded IEC plug of the supplied mains lead should be plugged into the socket on the rear of the unit first and then plugged into the mains supply.

The mains fuse is located here in the small drawer attached to the mains input socket. The fuse is a **T5AL** type.

Output Connections

Balanced XLR Outputs - Pre Out 1

These connections are used for hooking up to a power amp or subwoofer. It is recommended to use balanced outputs over long cable runs over 10m. There is no filtering applied to these outputs.

RCA Analogue Outputs - Pre Out 2 & 3

There are 2 pairs of RCA outputs on the Integrated and Streaming amplifiers. One pair (Pre Out 2) is a full range output with no filtering, configuration or customisation. The other pair (Pre Out 3) can be configured to be either full range, filtered to partner a subwoofer, line out (fixed for headphone amp or something else with a volume control downstream) or even filtered as part of a EQ profile. All of these settings can be configured within MaestroUnite.

Loudspeakers

Connect the loudspeakers to the terminals on the amplifier. Banana plugs can be used, but the red and black plastic caps need to be removed first. Once removed, insert the banana plug directly in to the terminal. Alternatively bare wire can also be used by unscrewing the terminal and placing the cable through the through hole in the terminal and clamping it firmly in place.

Carefully observe polarity ensuring that the red (+) speaker terminal/ cable is connected to the red (+) amplifier terminal and the black (-) speaker terminal/ cable to the black (-) amplifier terminal.

When both left and right loudspeaker outputs are connected to their respective loudspeakers the amplifier is ready for use.



IMPORTANT: Please ensure the unit is disconnected from the mains power supply before connecting the loudspeaker cables.



NOTE: Litz-wound loudspeaker cables or those with a complex plaited construction can present a highly capacitive load to an amplifier and may cause damage to the amplifier and/ or degrade the sound of your system. Choose a cable of simple construction, manufactured from high-quality materials. Your ROKSAN retailer will be able to advise.



NOTE: If using bare wire, DO NOT use speaker cable with conductor size less than 16 AWG (1.6 mm diameter) or greater than 12 AWG (2.05 mm diameter).



NOTE: We strongly recommend that you use professionally terminated speaker cables using 4mm plugs. Any attempt to connect cables which are not terminated may result in damage to the amplifier if not done correctly.

Using the Amplifier

Power Cycle

When first connecting the mains power to your amplifier, it will go through the boot up process and enter standby mode as illustrated below:



To wake the Streaming/ Integrated Amplifier from standby, there are a number of options. You can press the standby button on the remote, press the encoder, by using MaestroUnite, or in the case of the Streaming Amplifier, BluOS - once setup and configured.

Connecting to the Wi-Fi

The amplifiers (including the power amp) need to be connected to the Wi-Fi to receive “over the air” (OTA) updates. The Streaming Amplifier will also need to be connected to be able to stream over Wi-Fi. You cannot receive OTA updates to the Roksan firmware via the ethernet port on the back as this is only for BluOS.

To be able to connect them to the Wi-Fi, you will first need to download our Maestro Unite application that is available from your app store. Once downloaded, follow the instructions on page???

MaestroUnite App

The Caspian range is accompanied by the MaestroUnite app. This app is used to create systems of you Caspian products as well as integrating into the system Attessa CD Transport or even the Monitor Audio Anthra Subwoofers. It will also be the home to all user manuals, OTA (Over The Air) updates, connecting the devices to the Wi-Fi network and full/ advanced configuration of the products within the system.

The mobile app is available for iOS and Android devices in your usual app store.

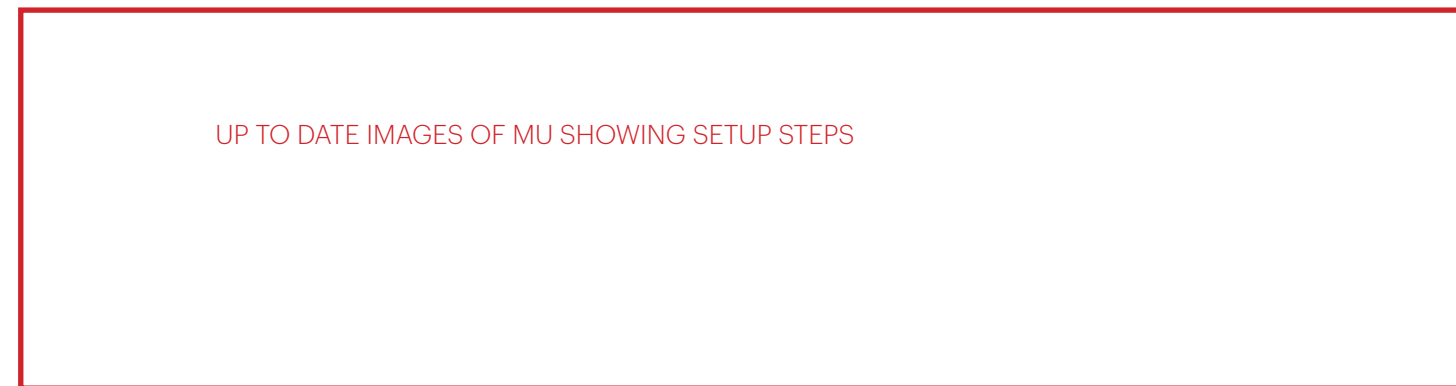
iOS:



Android:



Once installed, follow these steps to connect to your Caspian amplifier, configure the Wi-Fi and create your “System”. A system can be an amplifier by itself or a combination of Caspian amplifiers, the addition of an Attessa CDt or an Anthra subwoofer. When in a system together the products will talk to each other with the Streaming/ Integrated amplifier being the master controller sending commands to the other products within the system:



when setting up MU, if wrong code is input on phone, amp displays “Wrong Code”

When connected, amp displays connected

When initially configuring the Wi-Fi for the system, there will be various messages displayed on the amplifier as well as those on MaestroUnite.

Selecting an Input

All inputs can be selected using either the ortatry encoder on the front of the amplifier, the remote or (if you have the Streaming Amplifier) BluOS. Unused inputs can be turned off in MaestroUnite.

If using the Streaming or Integrated Amplifier in AV Bypass mode (configured in MaestroUnite) you will need to connect the Processor to A2 and for auto signal sensing to work. The amplifier can be left in any input and as long as Music Sense is enabled, when it receives a signal on A2, it will wake and automatically change to A2 input.

Bluetooth

To stream to the Streaming/ Integrated amplifier via Bluetooth, you will need to put it into bluetooth mode before it will be visible to your bluetooth source. Once visible it will show up as **Caspian** under the bluetooth available devices.

Caspian Menu

Streaming and Integrated Amplifiers only

The onscreen menu of the Integrated amplifiers opens up quick access to a number of features. To access them, press the button on the remote with the 3 dots. All settings can be toggled by pressing the Play/ Pause button on the remote. The features are:

- Auto On
- Auto Standby
- Balance
- Sensitivity
- Power amplifier Toggle
- Reset Audio Settings
- Factory Reset
- Serial Number
- Firmware & Hardware versions
- Firmware Update
- BluOs Version & Status
- BluOS USB Upgrade
- Caspian MAC Addresses
- BluOS Wi-Fi MAC and IP Address
- BluOS Ethernet MAC address

Auto On

Enables the selection of how the amplifier automatically turns on. You can chose from Music Sense, 12v Trigger or Off. When set to Music Sense, it will turn on automatically when a signal is received on A2 only. If 12v Trigger is selected, the amplifier will turn on when receiveing the trigger command from another attached device. If linking on to another amplifier, then the 12v trigger output will also be active.

NOTE: The 12v Trigger will only be active when a source device is connected to the 12v Trigger input. The Caspian amplifier will not produce a 12v Trigger signal.

Auto Standby

When enabled, if the amplifier isnt used for 20 minutes it will automatically go into standby. You can also turn this feature off, so that the amplifier will never go into standby automatically.

Balance

Here, the balance across the left and right channels can be alternered i 1dB increments upto 3dB on either channel.

Sensitivity

If the input level on the analogue devices is different to other inputs, the sensitivty can be adjusted accordingly to counteract this different. There are Low, Mid (default) and High options.

Power Amplifier Toggle

If the Caspian amplifier is being used as a Pre Amplifier connctected to a power amp, then to save energy, the power amplifier stage of the integrated amp can be turned off.

Reset Audio Settings

This will reset any changes made to the balance, sensitivity and EQ's (changed in MaestroUnite). It will not reset the Wi-Fi or BluOs settings. Press the Play/ Pause button on the remote to reset the audio settings.

Factory Reset

This resets everything back to factory defaults. Press the Play/ Pause button on the remote and then Repeat button to confirm and reset all settings. There will be a progress update on the display of the amplifier and it will go into standby when complete.

Serial Number

Displays the serial number of the amplifier.

Firmware & Hardware versions

Displays the current firmware version and the version of the hardware fitted.

Firmware Update

By pressing the Play/ Pause button on the remote will start a firmware update of the Roksan firmware (BluOs firmware is updated separately. Wi-Fi will need to be configured before carrying out a FW update.

BluOs Version & Status

Shows the current BluOs firmware version and its connectivity status.

BluOS USB Upgrade

The BLuOs firmware can be updated by USB. First the firmware file will need to be downloaded from the BluOs website and loaded onto the USB. Once the USB stick is inserted into the amplifier, press the repeat button on the remote to instigate the update.

Caspian MAC Addresses, BluOS Wi-Fi MAC and IP Address, BluOS Ethernet MAC address

The screens show the various MAC addresses fro the Wi-Fi, ethernet and Bluetooth modules within the amplifier.

MU Settings and Controls

screen shots of MU & explanations of MU options and settings

Adding an Anthra Subwoofer

Benefits/ what it can do within the system.

Steps and images of MU

Adding an Attessa CDt

If you wish to listen to CD's then the Attessa CD Transport can be used with the Caspian Streaming/ Integrated amplifer. When it is added into the same system as the amplifier it will be able to decode MQA CD's (streamer only), synchronise the power with the amplifier - CDt will turn on when the CD input is selected and turn off when the amp is turned off.

Benefits/ what it can do within the system.

Steps and images of MU

Adding Power Amp

a power amplifier can be added to the system within MaestroUnite.

When the power amplifier is added, the Streaming/ Integrated Amplifer will control when the Power Amplifier will turn on and off. It will show the volume bar and there are options to have the volume shown on either the integrated amplifier, the power amplifier or both. There is also a VU meter with peak hold markers. This can all be set up and configured within MaestroUnite.

DSP Processing/ Profiles/ Features

JG - DSP profiles need a section on their own, Acoustics have added a lot of powerful features that need some diagrams, use examples, screen shots etc.

BluOS Playback

(Streaming Amplifier only)

To take full advantage of the Streaming Amplifier’s capabilities and features, you can use it as a music streamer with the BluOS app. The app can be downloaded from your Apple, Android and Microsoft App Store. Once downloaded follow the on-screen instructions to install and set up the app for use with your Attesa Streaming Amplifier.

When Standby Plus is enabled, the Streaming Amplifier will be visible within the BluOS app and can be woken from standby using it and begin playback.

 **IMPORTANT:** For the app to find the Streaming Amplifier, you will need to select the BluOS input.

The chevrons around the volume dial indicate the status of the BluOS status. These colour indicators are:

Solid Green: The Player is in Hotspot Mode and is ready to be connected to the network. To setup your player from Hotspot Mode, check out the wired or wireless setup options in the following support article.

<https://support.bluos.net/hc/en-us/articles/3600000057968>

Flashing Green: The Player is attempting to connect to the network or the network cable is disconnected.

Solid Purple: The Player is not set up but Hotspot Mode has timed out after 15 minutes of idle.

Solid Blue: The Player is in Ready Mode connected to the network and ready to stream music.

Flicker Blue: Receiving IR Codes from a remote

Blinking Blue: The Player is Muted

Solid White: The Player is indexing the local music library on your network

Alternating White and Blue: Player is replicating or receiving an updated Index from other players

Solid Red: The Player is in Upgrade Mode waiting to perform an upgrade. If your player has entered Upgrade Mode unexpectedly, please check out the following support article

<https://support1.bluesound.com/hc/en-us/articles/204492653-My-Bluesound-Player-s-Mute-LED-Button-stays-Red-when-Upgrading>

Alternating Red/Green: The Player’s BluOS firmware upgrade is in progress.

MaestroUnite Features and Controls

Main Screen

Shows the following:

- Model
- Serial Number
- Firmware Version
- Available FW version

Standby Control

- Standby Plus On/ Off
- Run OTA in Standby On/ Off
- Upload Reports in Standby On/ OFF
- LED Dim Timer 0 - 400 seconds
- Backlight Timer 0 - 400 seconds
- Brightness after Timeout 0 - 255

Audio

- Volume Control
- Mute On/ Off
- Balance Left/ Right
- Sensitivity -3 dB - 3 dB

Play Controls

Full play controls inc repeat and shuffle functions. Will only work in BT mode on Integrated.

Tilt

HF tilt in both positive and negative directions.

Audio Misc

- Rumble Block Enabled
- DSP Main Bypass
- DSP Pre Bypass
- Loudness Compensation
- Limiters Enabled
- Lipsync compensation
- Power Amp On/ Off
- BluOS Pass Through

Crossover

- Low Pass Filter
- High Pass Filter
- Crossover Type
- Frequency
- Order
- Phase
- Polarity

Room EQ

Speaker Preset Pre

- Preset Name
- Preset ID
- Crossover Type
- Frequency
- Delay
- EQ’s

Speaker Preset Main

As per Preset Pre. What is the difference between the 2?

Auto On

Select between None, 12v Trigger & Music Sense

Auto Standy

on (20 mins) or off

Inputs

Toggle inputs on and off and change icons and names

Rokbus

Pass?

BluOS

Visible even when connected to Integrated amp.

Shows MAC, Version and IP addresses

Language

Change Language of Amo? MU?

OTA

Start OTA via MU

Fault Reports

Is this just for dev or is it in MU for customers?

Changing Remote Battery

To access the battery compartment and change the battery, use a coin or similar to rotate the compartment at the bottom of the amp, circled below:



Once released, the batteries are accessible. The remote accepts 2 x AAA 1.5v batteries.



Reset Audio Settings

If the audio settings need to be reset for whatever reason and not do a complete reset then this can be done by selecting “Reset Audio Settings” from the OSD.

Factory Reset

menu button on remote

scroll through OSD to Factroy Reset

Press Play Pause to select FR and the Shuffle to confirm

Trouble Shooting

MaestroUnite Control



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