




Operating Manual
STUDIOART

S100 Audiobar

INTRODUCTION	1
Unpacking	1
Network requirements for S100	1
Included in delivery	1
Installation - Safety advice	2
Safety measures	2
Please note	2
S100 connector panel, rear	3
Operation via the glass touch panel	5
RC100 – IR remote control	6
Commissioning	7
Installation and mounting	7
Installation in a room	8
5.1 Home theatre mode	8
On-screen menu (OSD)	10
2. Integrating the S100 Audiobar into the home network via WiFi/LAN	11
Connecting the S100 to your local network using the WPS function	11
Connecting the S100 to the local network via an Apple device	11
Connecting the S100 to the local network via an Android device	12
Connecting the S100 Audiobar to the local network via a LAN connection	13
Assigning a manual IP address	14
Configuration	15
Audio setup 	15
Info setup 	17
Pairing setup 	19
Connect/disconnect speaker	21
The basic features of the STUDIOART app	23
Using the STUDIOART app	24
Speaker/room selection	24
.....	24
Source and music selection	25
List selection	26
Play view	26
FAQ	27
1. The Audiobar is not shown in the STUDIOART app	27
2. The STUDIOART app indicates that the mobile Android device no longer has a network connection	28
3. Connected STUDIOART products lose their paired status or the audio is interrupted	28
4. Automatic switch-on from local input <i>Analog IN</i> is not triggered	28
5. The S100 is not listed as a playback device on my Bluetooth®-enabled device/mobile phone	28
6. When playing an album, music playback stops at the end of a title	29
7. When playing a BluRay / DVD via the input HDMI 1-3, no sound is heard	29
Technical data S100	30
Caring for your device	30
Copyright	31

INTRODUCTION

Congratulations on acquiring your new **STUDIOART S100** Audiobar. We would like to thank you for the trust you have shown in our company by purchasing this high-quality product. Before commissioning your Revox Audiobar, you should pay attention to the following instructions in order to fully benefit from the acoustic qualities of the product.

For **general safety instructions, information on how to dispose of your old devices** and the **warranty terms**, please refer to the enclosed leaflet.

Pay attention to the warning labels on the device and/or its external power supply unit:



The symbol is intended to alert the user to the presence of uninsulated dangerous voltage with the product's enclosure that may be of sufficient magnitude to constitute risk of fire and electric shock.



The symbol to alert the user to the presence of important operating and maintenance instructions in the literature accompanying this product.

In order to prevent the risk of electric shock, do not remove any coverings. Maintenance and repairs are only to be performed by qualified specialists!

Unpacking

We recommend keeping the packaging materials in case the product needs to be transported at a later point in time. Please check the **STUDIOART** speaker and its accessories after unpacking to ensure that it is complete and has not suffered any damage during transport. Before commissioning the device, please read through the operating manual carefully. Keep it as a reference document.

A device which has suffered mechanical damage or which liquids have penetrated into is not to be connected to the mains.

Network requirements for S100

The **STUDIOART** system communicates via a 2.4 GHz home network which supports 802.11 b/g/n wireless technology. 5.0 GHz home networks are also supported.

Addresses in the network are automatically assigned via DHCP. A manual IP configuration can be carried out via the web interface using a browser. You can find more about this in Chapter 1 "Integration into the home network".

The **STUDIOART** app is available at no cost for Android devices with Android 7.0 or higher and Apple devices with iOS 9.35 or later.

Included in delivery

- **STUDIOART S100** Audiobar (1x)
- **STUDIOART RC100** IR remote control (1x)
- Optical connecting cable for TOSLINK connections (digital)
- Coaxial connecting cable for RCA connections (digital)
- Analogue connecting cable for RCA connections (analogue, stereo)
- Power cable with Europlug (1x)
- Adhesive pads for installation on a TV bench or similar (4x)
- Leaflet *Safety instructions & Warranty terms* (1x)
- Welcome letter
- Warranty card
- Product Information **STUDIOART**

Described software version: V3957 - V5 - **V63** (see Info ⓘ)

Installation - Safety advice

- Please follow the instructions in the User manual supplied.
- Do not position the unit close to strong heat sources such as radiators, heat registers, stoves or in direct sunlight.
- The power plug should be removed from the socket during longer periods of non-use, for instance during an absence.
- Unplug the unit from the mains during storms. Voltage peaks through the mains power supply caused by lightning strikes can damage the unit.
- There must be easy access to the power plug so that the unit can be unplugged at all times.
- If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Lay the power cable such that it cannot be damaged. The power cable should not have kinks or be laid over sharp edges. It should not be walked on or be exposed to any chemicals. The last point is valid for the whole unit. A power cable with damaged insulation can lead to electric shocks and represents a fire hazard.
- Never pull on the cable when plugging the unit in or out. Always hold the plug.
- Liquids, flammable or other objects should not be inserted in the unit's openings as this can lead to faults, fire or an electrical shock.
- Do not expose the device to splash water or high levels of humidity. Do not stand containers filled with liquid, e.g. flower vases, on the device.
- It is only designed for operation in temperate, non-tropical climates.
- Take note of and follow the safety advice on the following pages.

Safety measures

Read and take note of the following safety advice for your own safety and to avoid unnecessary damage to your equipment. Please keep this safety advice in a safe place for future reference.

Avoid locating the unit in a position which:

- is exposed to direct sunlight
- is directly next to a source of heat
- has poor ventilation
- has a dusty atmosphere
- is unstable
- has high humidity

The guarantee covers the intended usage of the unit.

High build-ups of dust and humidity cause creepage current in the unit that can cause a risk of shocks when touching the unit or lead to a fire. If you have moved the unit from a cold to a warm environment, leave it switched off for about two hours because of a possible build up of condensation dampness.

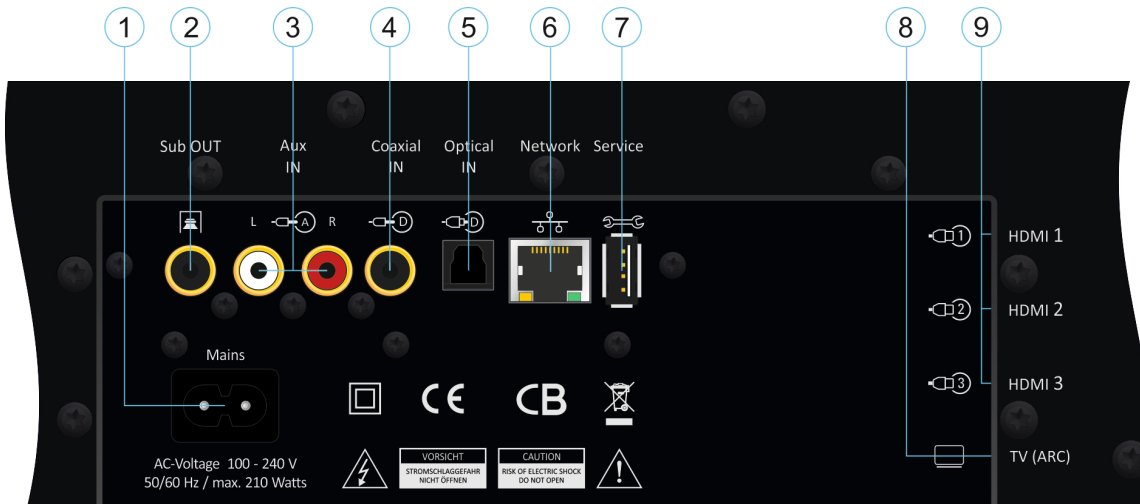
Protect your unit from:

- damp, dripping water and steam
- impacts and mechanical loads
- magnetic and electrical fields
- cold, heat, direct rays of the sun and severe changes of temperature.
- dust
- accesses to the inside of the device

Please note

In order to exclude the risk of an electric shock, do not remove the housing. Only have repair work carried out by a Revox specialist dealer.

S100 connector panel, rear



No.	Function	Explanation
1	Mains plug	100 – 240 V AC / 50/60 Hz
2	Subwoofer output (line)*	Connector socket for wired active subwoofer, alternative to STUDIOART B100 wireless subwoofer
3	Analogue input, stereo	Remote control: Local button 1
4	Digital coaxial input	Remote control: Local button 2
5	Digital optical input	Remote control: Local button 3
6	LAN network port	Allows for connection to local home network; alternative to WiFi connection
7	USB service port	USB Type A port for software updates; works independently of an internet connection
8	TV HDMI with ARC	HDMI connection to TV set. RC button ARC = Audio Return Channel for TV
9	HDMI 1-3 input	Connector for video devices with HDMI output, e.g. BluRay player

1 Power in socket [Mains]

The input voltage of this power supply unit may range from 100 to 240 VAC / 50-60 Hz.

2 Subwoofer output [Sub OUT]

Connector sockets (RCA, mono) for wired active subwoofers which can be used as an alternative to the **STUDIOART** B100 wireless subwoofer. Only the volume and crossover frequency should be adjusted on a wired subwoofer. The **phase regulator**, if there is one, should be set to **0°**, as the **STUDIOART** app can be used to precisely configure the distance between the subwoofer and listener in 10 cm steps. The crossover frequency can be adjusted by ear.

Note: the lower -3 dB point of the Audiobar with activated Sub-Out is at 120 Hz.

3 Analogue input [Aux IN]

Connector sockets (RCA, Stereo) for analogue signal sources such as tuners, audio tape devices, or reel-to-reel tape decks. The Revox **STUDIOMASTER** T700 turntable with integrated high-end phono amplifier can also be connected here.

For mobile devices with a low output level, there is a special adjustment option in the **STUDIOART** app. You will find a detailed description in the chapter **STUDIOART App** of this operating manual.

Take note: [Sensitive input with automatic switch-on/switchover](#)

The analogue input is equipped with a signal detector which automatically switches on the Audiobar as soon as a music signal is present. The automatic signal detection can be deactivated in the A100 setup menu if required.

Note: *The automatic switch-on is level-dependent; i.e. if the signal level is very low, it may be the case that the Audiobar is not switched on or turns off too soon. If necessary, increase the output signal of the source while also lowering the volume of the Audiobar.*

4 Digital coaxial input [Coaxial IN]

Connector socket (RCA, mono) for digital signal sources such as CD players or satellite receivers.

Supported formats: Bitstream/ PCM/ SPDIF up to 192 kHz/ 24 bit

Take note: [Sensitive input with automatic switch-on/switchover](#)

5 Digital optical input [Optical IN]

Connector socket (TOSLINK optical fibre) for digital signal sources such as CD Players, satellite receivers, or TV sets.

Supported formats: Bitstream/ PCM/ SPDIF up to 192 kHz/ 24 bit

Take note: [Sensitive input with automatic switch-on/switchover](#)

6 LAN port [Network]

If it is not possible to operate the S100 Audiobar on a stable WiFi network, the S100 can also be connected to a router or switch using a patch cable.

*Note: In multiroom mode, **STUDIOART** loudspeakers can be operated both via LAN and WLAN in the home network. For reasons of stability, however, it is advisable to either operate all speakers in WLAN or LAN.*

7 USB port [Service]

USB Type A port for software updates independent of an internet connection.

8 TV connection [TV ARC]

HDMI connection to TV set. This HDMI connection supports the **ARC** feature (ARC = Audio Return Channel for TV). In TV mode, this allows the sound of the TV set to be played back and the video to be forwarded to the TV set which comes from one of the 3 HDMI inputs of the Audiobar. HDMI version 2.0 with 4K support.

Furthermore, **CEC** commands (**C**onsumer **E**lectronics **C**ontrol) are exchanged between the TV set and Audiobar. This allows e.g. the volume of the Audiobar to be adjusted using the remote control of the TV set or the TV set and Audiobar to be placed in standby mode simultaneously at the press of a single button.

If the TV set is switched off using its remote control, the S100 goes into one of its operating states (standby or OFF, depending on the definition in the OSD menu). The radio connection (KleerNet) to the rear speakers is disconnected and these are switched to standby.

Note: Not all CEC standards of the individual HDMI versions are mutually compatible. Devices with HDMI standard 1.4 or lower often exhibit CEC incompatibilities. In such cases, simply deactivate CEC control and manually select the HDMI input on the Audiobar.

On some TV sets, an undesired switching on of the S100 can often be observed, e.g. when the S100 is started with Internet radio. Many TV manufacturers therefore offer the option of deactivating switching on via CEC. Please contact your device manufacturer for information on the relevant options.

Tip: If you operate the audio bar in solo mode without the rear / effect speakers, it is advisable to set the audio output on the TV set to PCM. This often renders dialogues better.

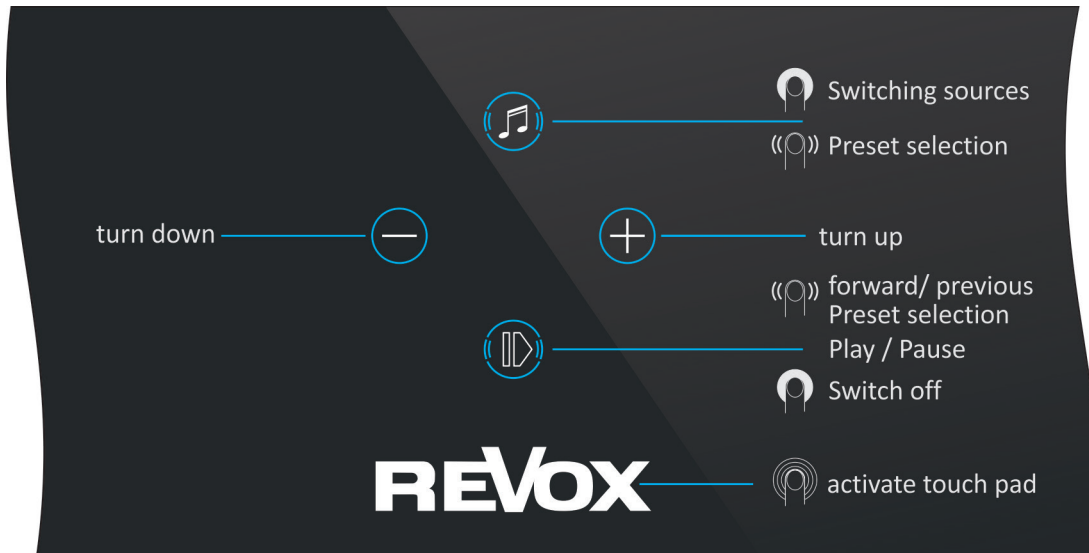
With some TV sets, the level via the HDMI-ARC output is very low, so that the TV sound is quieter than the other sources in the audio bar. When **TV Boost** is activated, this level difference is compensated for the TV source of the Audiobar. The **TV Boost** function can be set either via the on-screen menu (OSD) or within the setup of the **STUDIOART** app of the audio bar in the sound settings area or by pressing the appropriate button on the remote control (see page 5).

9 HDMI input 1-3 [HDMI]

HDMI input for video devices with HDMI output, e.g. BluRay players or game consoles. The video signal is forwarded to the TV output (TV ARC), while the audio signal is played back by the Audiobar. HDMI version 2.0 with 4K support.

Some AV devices (e.g. Blu-ray players) have a low audio output level via the HDMI output, so that the sound is quieter compared to the other sources in the audio bar. In the OSD screen menu of **HDMI Boost** and within the setup of the **STUDIOART** app, each of the three HDMI inputs has an individual setting option - see also the chapter Screen menu (OSD). The **HDMI boost** can also be activated / deactivated by pressing the appropriate button on the remote control (see page 5).

Operation via the glass touch panel



Switching sources

Hold down the button until the front display shows the option to switch sources. In the preset selection [PR1-5], swipe (right/left) over the buttons and to switch between the presets.

Adjusting the volume

Use the two buttons + and - to set the desired volume level. During the volume adjustment, the front display shows the volume values ranging from 0 - 100.

Switching the S100 on/off

Press and hold the button (Play/Pause) for approx. 2 seconds until the front display shows a red dot. The S100 is now completely switched off. The Audiobar is not accessible in this state for the **STUDIOART** app.

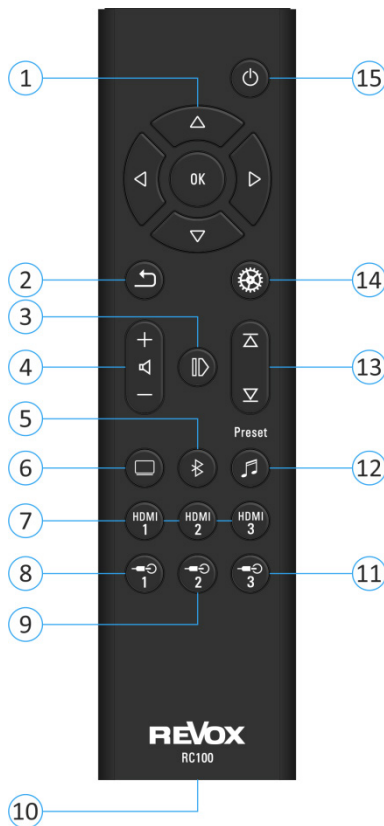
The device can be switched on either via the power button of the IR remote control or by pressing and holding the (Play/Pause) on the glass surface once again or by switching on the TV set (only with HDMI-ARC connection). Because the button symbols are not visible when the device is switched off, you can use the large **V** of the ReVox logo as a reference point.

Placing S100 in standby mode / muting the device

Briefly tap on (Play/Pause). After being idle for more than **30 minutes**, the S100 automatically enters in operating mode.

RC100 – IR remote control

① Before initial use, the safety film must be removed/ pulled out of the battery compartment.



No.	Function [Display]	Explanation
1	Navigation / OK	Selection and confirmation in the basic settings
2	Back	Go back one level in the OSD menu <i>Basic settings</i>
3	Play/ Pause/ Stumm ❶	Playback – pause function with mute
4	Volume	Set the volume from 0 - 100
5	Bluetooth [BT]	Select Bluetooth source. Audiobar is Bluetooth receiver ¹
6	TV [ARC] ❷	Select TV source. Audiobar plays back TV audio ²
7	HDMI 1-3 [HD1-3] ❸	Select source HDMI 1-3, e.g. BluRay players and game consoles
8	Analogue input [RCA]	Analogue source, input via RCA (cinch) sockets (stereo)
9	Digital input [COA]	Digital source, coaxial input, orange RCA (cinch) socket
10	Battery compartment	Lithium button cell 1x CR2032 / 3 volts
11	Digital input [OPT]	Digital source, optical input, TOSLINK port
12	Radio presets [PR1-5]	Saved radio stations 1-5, use ◀▶ to switch between them
13	Forward/back	Switch between preset stations, forward/back e.g. for titles
14	Basic settings	Shows the basic settings in the OSD* menu of the TV
15	Switch on/off	Switches the Audiobar on/off ²

- 1 Via the **STUDIOART app**, the Audiobar can also function as a **Bluetooth transmitter**, e.g. for BT headphones.
- 2 Short press S100 = Standby (network connection remains)
Long press S100 = OFF (no network connection, no control via app)

- ❶ With a long press (5 sec.) The center volume can be increased in steps of 0 - 9 with Dolby 5.1 sound formats - the S100 display shows C00 - C09. The center volume can now be adjusted with the forward / back buttons (13). No function with normal stereo sound formats, even if the center loudspeaker is active. This function can also be called up in the OSD menu of the audio bar in the sound settings.
- ❷ The TV boost can be activated or deactivated with a long press (7 sec.). The volume for the TV source is increased by 10 dB. This function can also be called up in the OSD menu of the audio bar in the sound settings.
- ❸ With a long press (7 sec.), The TV boost can be activated or deactivated individually for HDMI sources 1-3. The volume for the respective HDMI source is increased or decreased by 10 dB. This function can also be called up in the OSD menu of the audio bar in the sound settings.

* OSD = **O**n **S**creen **D**isplay - Audiobar menu shown on the TV screen which contains information and allows settings to be configured.

Commissioning

This operating manual is subdivided into 4 main chapters:

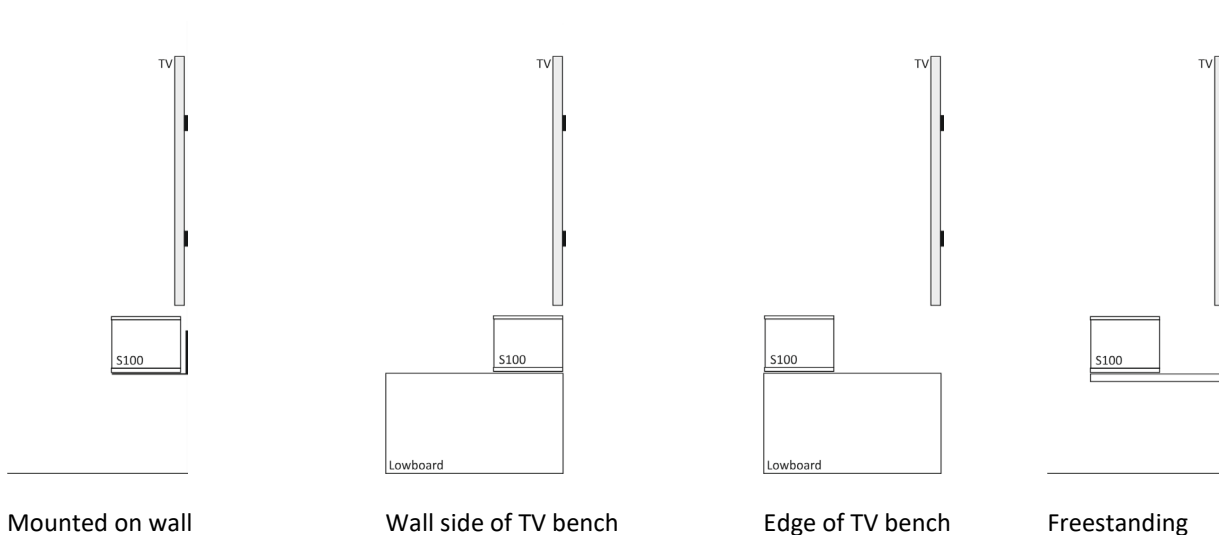
1. Installation and mounting of the Audiobar
2. Integrating the **S100 Audiobar** into the home network via WiFi/LAN
3. Connecting and expanding the **S100 Audiobar** wirelessly (pairing) with other **STUDIOART** products for your home theatre
4. The basic features of the **STUDIOART** app

Installation and mounting

The Audiobar has been designed to ensure you receive an optimal acoustic experience both when watching TV as well as listening to music. Place the Audiobar under the TV set, in the middle. The distance between the listener and the Audiobar should be at least 2 m.

The Audiobar has 4 predefined sound modes which allow for optimal results depending on the positioning of the Audiobar. To achieve this, reflecting surfaces and distances to the wall behind the Audiobar are taken into account.

With the aid of the **OSD menu** of the Audiobar or the setup of the **STUDIOART** app (📱), you can define the configuration variant which applies to you. You will find the menu option "Position S100" in the *Sound settings* section.



Note: Integrating the Audiobar **into** furniture for audio equipment
When integrating the Audiobar into furniture for audio equipment, ensure that there is a gap of at least 5 cm to the right and left of the Audiobar, as this is where the reflex openings are located. Furthermore, it is a good idea to slant the Audiobar slightly if the installation location is located just a few centimetres above the ground. This allows sound waves to reach the ear better.

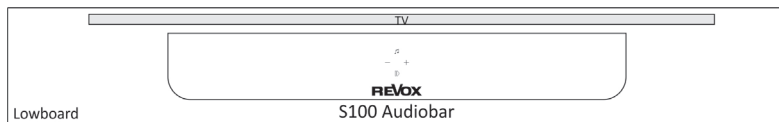
Installation in a room

The Audiobar is designed as a 2.1 system so that you can enjoy excellent music and film playback without requiring any extensions. A full-range phase-linear speaker with its own power amplifier is used in each case for the left, right, and centre channels. The full-range speakers are supported by 4 bass drivers, each of which has its own power amplifier. With these 7 speakers, your **STUDIOART** device is able to produce impressive audio for large rooms of up to 25 m² – at levels of up to 100 dB at a distance of one metre.

Solo mode

The diagram below shows a classic configuration of the Audiobar in front of the TV set. The Audiobar should be set up centrally with reference to the listening position so that the sound is evenly distributed.

In solo mode (without rear speakers) we recommend setting the audio output to **PCM** in the TV set.



5.1 Home theatre mode

Rear surround speakers

Thanks to a built-in KleeNet wireless system, the S100 Audiobar can easily be expanded to create a 5.1 home theatre system. To do so, a **STUDIOART A100** is placed on the left and right sides, respectively a A100/ P100 combination at the rear to function as surround speakers. When a 5.1 audio format is played back, these effect speakers provide support for the Audiobar by outputting sound effects that offer the listener an impressive 360° listening experience. The A100 speakers should be aligned towards the listener's position. After pairing the speakers, the **STUDIOART** app can be used to configure the distance to the listener as well as the base volume level.

Important note:

The two rear surround speakers are only functional when **both** A100 (right + left) are integrated. A single A100 does not yet emit any sound.

For stereo sources, such as internet radio, the **X-Stereo** function must be activated in the app or the OSD so that the rear effect speakers can also play music. If X-Stereo is not activated, playback will only take place via the Audiobar.

From the A100 SW version V37, the rear speakers are muted with stereo sources and deactivated X-Stereo.

When the S100 Audiobar is switched off (Standby / Off), the A100 rear speakers are immediately switched to standby.

External subwoofers

For additional deep bass support, a **STUDIOART B100** can be used. Extremely low frequencies, such as those emitted by the B100, can barely be localised by the human ear. The goal is to integrate the B100 such that it is not perceived in the foreground, but instead positively expands the overall audio experience where deeper frequencies are concerned.

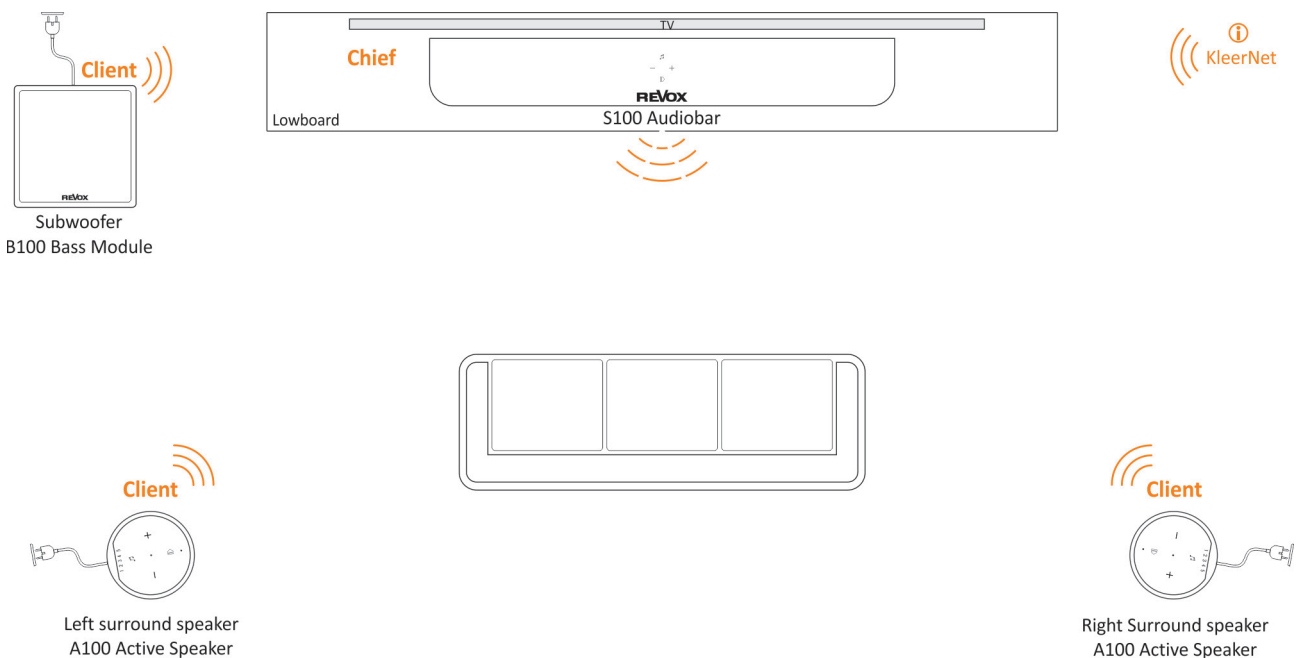
In order to achieve this, Revox recommends observing the following points:

- From experience, a more homogeneous audio experience is achieved when the subwoofer is placed in the area round the Audiobar.
- Placing it in a corner of the room can lead to an undesirable exaggeration of individual low bass frequencies. The closer the B100 is placed to a wall or corner of a room, the more forceful the low frequencies emitted will be. A larger distance shifts the low frequencies emitted towards a "lean and dry" bass.
- The **STUDIOART B100** does not require any line of sight to the listener ('s position).

The volume and phasing of the low frequency behaviour can be fine-tuned with the help of the **STUDIOART** app once a good installation location has been found. The controls on the back of the B100 are only effective with a cable connection.

Every **STUDIOART** speaker (client), i.e. A100 or B100, only requires a 100 – 240 V mains supply (plugged into a wall socket). The individual **STUDIOART** speakers communicate with each other via their own, uncompressed wireless network (KleerNet™). Due to the low transmission power, this wireless network is only designed for connections **within** a room.


Pairing: Please refer to chapter 3 for how to wirelessly connect (pair) the rear **STUDIOART** effect speakers (A100) or the **STUDIOART** subwoofer (B100) with the Audiobar.



Take note:

If **STUDIOART A100s** are being used as surround speakers, the volume and play/pause function can be used to control the Audiobar, thereby allowing for convenient, manual operation without a remote control or app.

On-screen menu (OSD)

The on-screen menu of the Audiobar is displayed on the connected TV set if it is connected to the Audiobar via HDMI-ARC and the OSD button  on the IR remote control is pressed.

The main menu is divided into 6 areas. Many settings in these 6 subgroups can also be set via the **STUDIOART** app and are described in more detail in the next chapter. But there are also areas that are only available in the OSD of the audio bar. These are listed in *italics* in the overview below and are described in more detail in this chapter.

Main Menu	Information	System Settings	Network settings	BT (Bluetooth) Settings	Sound Settings	Client Settings
Information	SN Serial Number	OSD language <i>Set language</i>	Network LAN/ WiFi	Status On/ Off	Treble +/- 12 dB	Pair Client Speakers Start Routine
System Settings	LS9 Streaming platform	OSD Status Bar On/ Off	SSID Network name	Mode Receiver/ Sender	Bass +/- 12 dB	Remove Client speaker ... of S100
Network Settings	BT Bluetooth version	Revox Logo always lit On/ Off	Signal Quality ... of WiFi	Source connected Name of BT source	Aux high sensitivity On/ Off	Stop Pairing Stop Routine
BT Settings	KleerNet Wireless speaker connection	Revox Logo Brightness 0-15 (0-100%)	IP Address ... of S100	Mute as BT Source Mute S100 speakers	TV boost On/ Off	Enable B100 and Sub-Out ... or muting
Sound Settings	MCU Host Central processor	Auto Power-On On/ Off	MAC Address ... of S100	Pair Earphone when unknown to S100	HDMI boost > submenu (On/ Off each)	A100 Gain +/- 6 dB
Client Settings	DSP Sound processor	Show stream info on front display On/ Off	WiFi Band ... of S100	Clear pairing info ...of paired devices	Loudness On/ Off	A100 Distance 0 - 10.0 m
	OSD <i>On Screen Menu</i>	Automatic standby On/ Off	Module Status <i>Connected or not</i>		Widening Off/ Wide/ X-Wide	B100 Gain +/- 6 dB
	Factory Reset <i>Factory Reset</i>	LED illumination On/ Off	Config WiFi Set-up WiFi		Stereo with Center On/ Off	B100 Distance 0 - 10.0 m
		S100 mode when turn off TV Standby/ Off	Start WPS ... connection		Downmix 5.1 to .0 On/ Off	Extern Sub Distance 0 - 10.0 m [Sub-Out]
			<i>Reset Network module</i>		S100 Position Free/ Wall / Edge	Wireless band auto. / 2.4 / 5.2 /5.8 GHz
					X-Stereo On/ Off	
					5.1 Center Gain 0 - 9 dB	

italic type only in OSD menu available, not in app

Information *Factory Reset*

Here all settings including the network settings are reset to the factory settings. The Audiobar is then no longer connected to the WLAN and must be re-integrated.

System settings *OSD language*

Selection of the language within the on-screen menu. Current German **DE**, English **EN** and French **FR** are available.

Network settings *WLAN band*

Shows the WLAN band 2G or 5G selected by the audio bar.

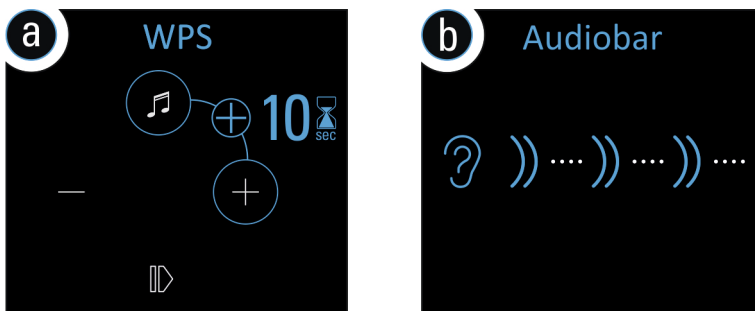
2. Integrating the S100 Audiobar into the home network via WiFi/LAN

The S100 Audiobar functions primarily by streaming content from the internet. For the full range of control options, the Audiobar communicates with the **STUDIOART** app, which must also be in the **same** network as the Audiobar. This chapter explains the options available for connecting the S100 with your home network.

Important router setting: *Devices are allowed to communicate with each other*

Connecting the S100 to your local network using the **WPS** function

1. Start up the S100 Audiobar and place it in close proximity to the WiFi router.
2. The WPS routine must be executed within 2 minutes.
3. Put S100 in WPS mode: press and hold + for approx. 10 sec (a) until a **double beep** is heard periodically (b). At half this period of time, a simple single beep is first emitted.

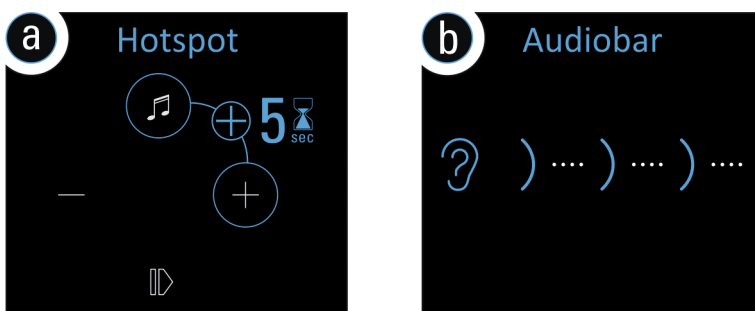


4. Now press the **WPS** button on the router. Please find out in advance from your router manufacturer about integration using WPS. Some routers also have names such as "Log in" or "Connect"
5. If the Audiobar has been detected, it is now automatically registered on the router's WiFi network. You do not need to separately enter the WiFi password.

* WPS = automatic connection process for WiFi products. Both devices, i.e. the router and WiFi product (e.g. S100) must support WPS. On some WiFi routers, WPS is deactivated at the factory and will first need to be activated in the settings.

Connecting the S100 to the local network via an **Apple** device

1. Activate S100 hotspot mode: press and hold + for approx. 5 sec (a) until a **beep** is heard periodically (b).



2. Now, in the WiFi settings of the Apple device, select the Audiobar as a recognised **AirPlay** speaker (not WiFi hotspot) and follow the Apple configuration wizard. The menu "**SET UP NEW AIRPLAY SPEAKER ...**" is shown in the iOS WiFi settings in the lower section, **below** the list of detected WiFi networks.

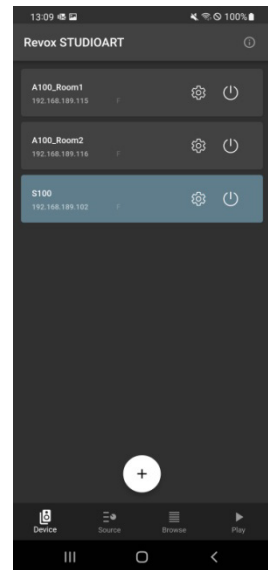
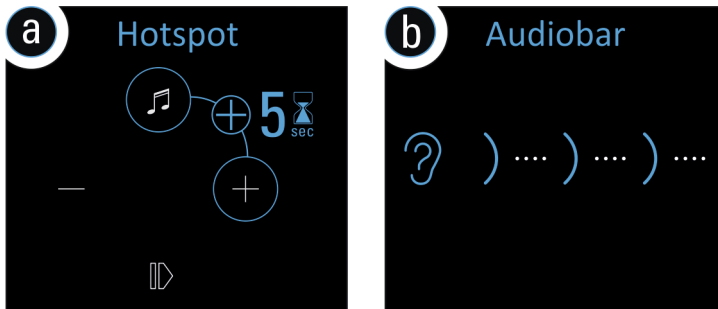
After being successfully integrated, the Audiobar is shown as a **STUDIOART** speaker in the **STUDIOART** app and can be given a custom name in the setup.

* AirPlay = AirPlay is a wireless interface which allows iPhones/iPads to exchange music (data) with other AirPlay-certified devices. AirPlay uses the existing home WiFi network for this purpose. AirPlay also works when the S100 Audiobar is connected to the home network via a wired LAN connection. The Audiobar supports AirPlay 1 and AirPlay 2.

Connecting the S100 to the local network via an **Android** device

1. Download and install the free **STUDIOART app** from the Google Play Store. Deactivate **Energy-saving** mode on your phone.
2. Press the plus symbol **+** on the start page of the STUDIOART app - see image on the right.
3. Follow the **4** steps (a-d), which the app displays with images and texts:

a) Activate S100 hotspot mode: press and hold **+** for approx. 5 sec (a) until a **beep** is heard periodically (b).



b) In the WiFi settings, select the Audiobar (WiFi name: *RevoxS100-xxxx*).
As soon as you are connected to the A100 access point, your mobile device will usually report the loss of the Internet connection. Please select: "Connect anyway".

c) Select the desired future WiFi network and enter the corresponding WiFi password.

d) In the network settings, select the WiFi network in which the Audiobar is playing the audio.

Upon successfully being integrated into the home network, the Audiobar will be shown as a **STUDIOART** speaker in the app and can be assigned a custom name in the setup.

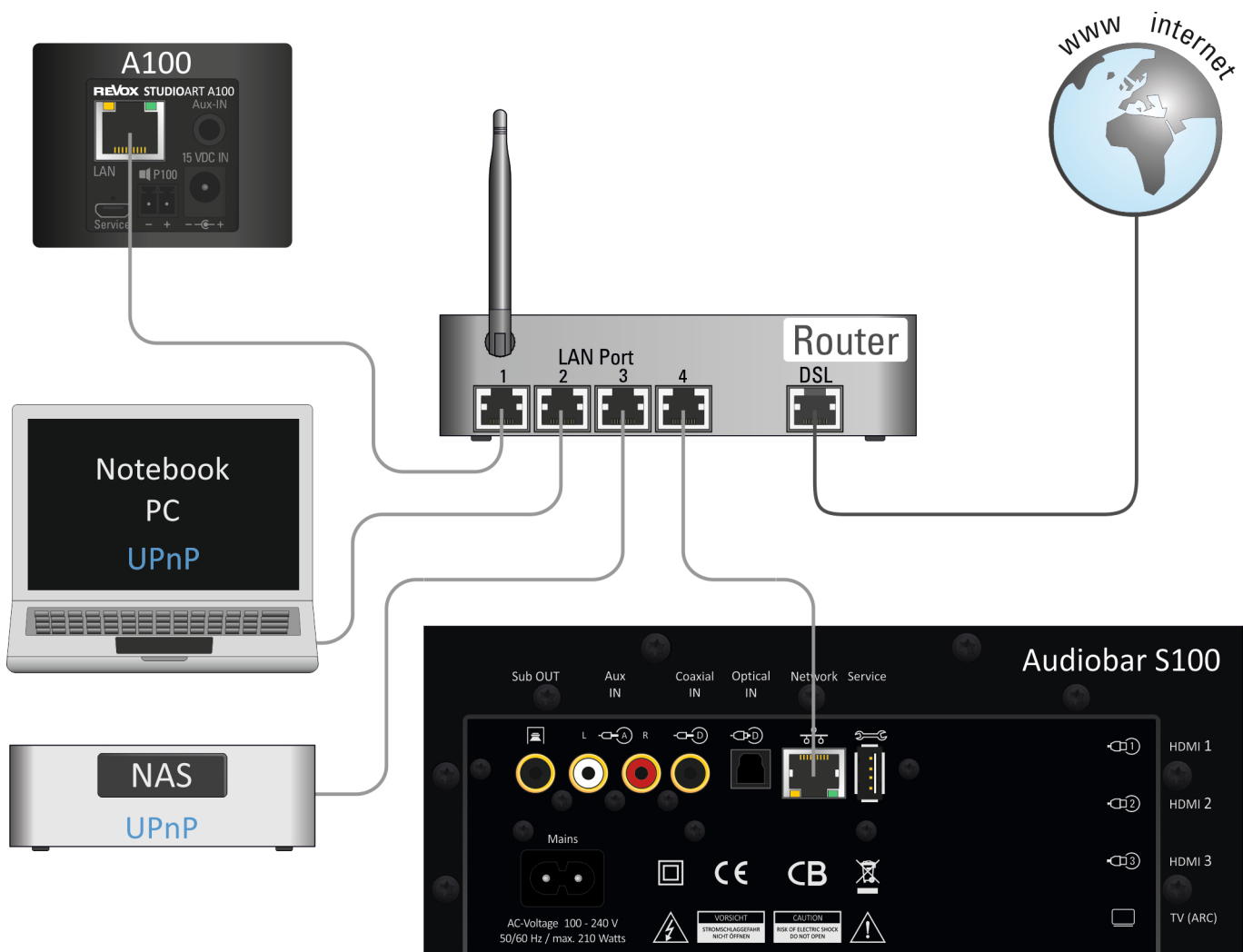
Connecting the S100 Audiobar to the local network via a LAN connection

If it is not possible to operate the Audiobar on a stable WiFi network, it can also be connected to a router or switch using a LAN cable (patch cable with RJ45 plug).

Important note: **multiroom mode**

In multi-room operation, **STUDIOART** loudspeakers can be operated via LAN as well as via WLAN in the home network. For reasons of stability, however, it is advisable to either operate all speakers in WLAN or LAN.

Attention: **Bluetooth** and all local sources that are connected via **cable** with the connection panel of the Audiobar **cannot** be passed from one **STUDIOART** loudspeaker to another **STUDIOART** loudspeaker.



Assigning a manual IP address

The S100 is factory-set for automatic IP address assignment using DHCP. There is also the option of integrating the S100 into the network by manually assigning the access data.

To do this, bring the S100 into your home network for the first time using one of the various WLAN access routines, as described in Chapter 1, or using a LAN cable. You can read out / determine the IP address of the S100 Audiobar using the **STUDIOART** app (➔ Setup / Info) or a network IP scanner. Enter this IP address in the command line of your browser. Immediately afterwards, the Revox web interface opens, in which, in addition to the manual IP address assignment, you will also find change options for the S100 name, WLAN band and a manual update option.

Select Your Network

Security

Security Type ▾



Static IP
ON/OFF



Configure
Manually

To configure Static
IP, Please fill all the fields

IP Address :

0.0.0.0

Net Mask :

0.0.0.0

Gateway :

0.0.0.0

Primary DNS :

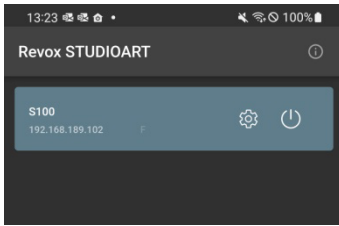
0.0.0.0


Secondary DNS :




0.0.0.0

Setup your product to join your network of choice. Static IP ON will help to configure with Static IP. Configure Manually will help to configure with Hidden Network

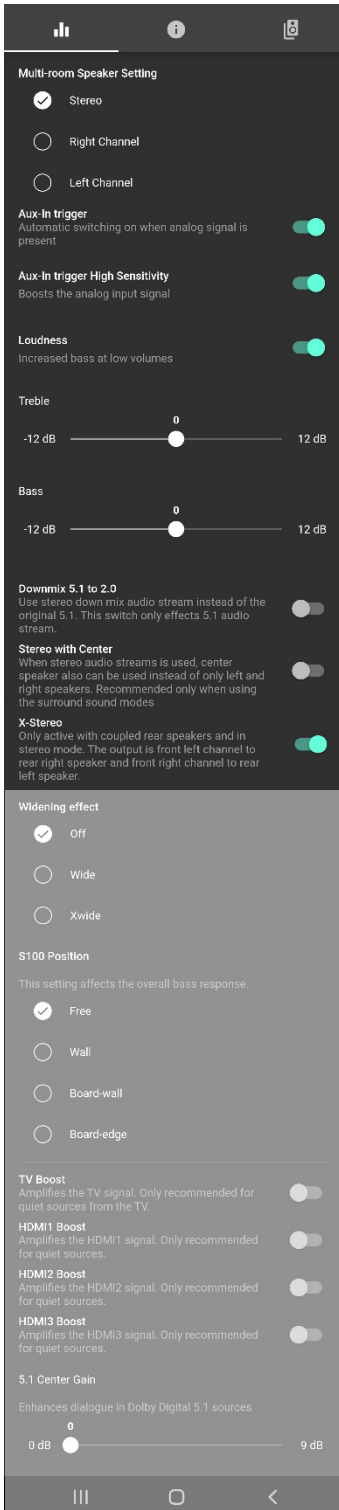
Figure: Web interface of the S100 Audiobar in the browser



The  symbol accesses the configuration menu of the individual **STUDIOART** speakers. The basic settings are subdivided into the following chapters:

- The Audio setup 
- Info setup 
- Pairing setup 

Audio setup



Multiroom Speaker Setting

If several rooms or S100 are temporarily combined into a multiroom group, which together play a source, this is also called party mode, this setting can be used to determine whether the individual loudspeaker plays both channels (stereo), only the right channel or only the left channel.

AUX-Trigger

The automatic switch-on function of the analog input AUX, which is controlled by an incoming music signal, can be deactivated if required.

Aux-IN High Sensitivity

Third party devices can be used for playback via the local analogue input **Aux IN** on the rear of the S100. Such devices include e.g. a CD player or a mobile phone. For devices (usually mobile devices) with a low output level, the sensitivity – i.e. the gain – can be increased. When this function is activated, the source is played back at a louder volume.

Note: In the setup menu, an increased sensitivity can also be set for the **TV ARC** channel and the three **HDMI** inputs - see **TV Boost / HDMI Boost**.

Loudness

At low volume levels, our ears perceive low frequencies with less intensity than medium or high frequency ranges. This leads to persons listening to music at low volume levels feeling that the bass frequencies are missing. Hence, Revox has created an adaptive bass correction algorithm that takes hearing perception into account. Colloquially known as Loudness, it automatically corrects this phenomenon depending on the setting of the volume control.

Treble / Bass

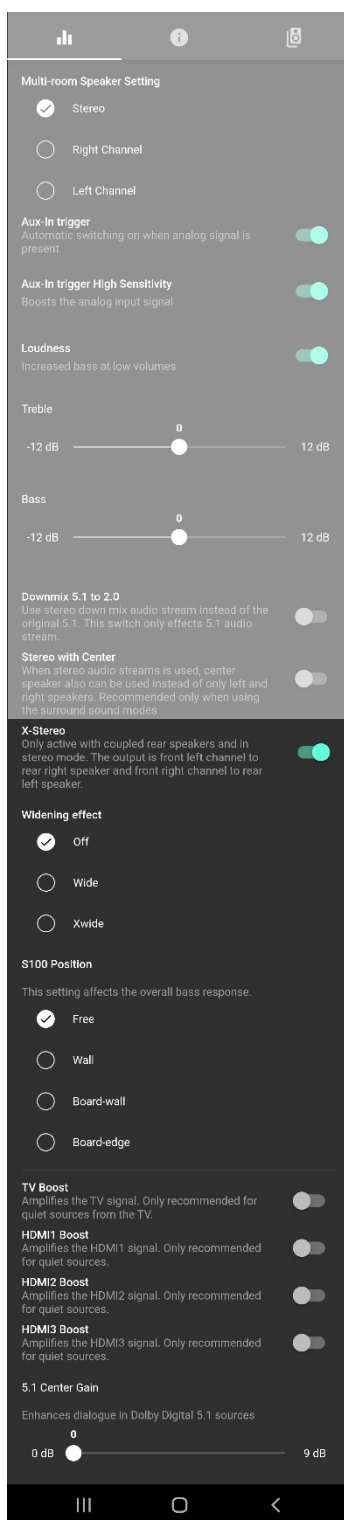
The two sliders for Treble and Bass allow the high and low frequencies in the range of -12/ +12 dB to be raised/ lowered.

Downmix 5.1 to 2.0

When a source (e.g. HDMI, Optical, Coaxial) provides a 5.1 audio format, the corresponding speakers in the Audiobar are supplied directly with this signal. However, if the Audiobar is used for playback on its own without these effect speakers, the downmix switch should be activated. This causes all 5.1 formats to be automatically converted into a 2.0 stereo format which is played back by the Audiobar with all 7 speakers, provided that the switch for the mid-range speaker has been activated – see the next point.

Stereo with Center

The Audiobar is equipped with a center speaker for particularly good speech playback. It is particularly useful for purely stereo audio signals, as dialogues are realised particularly clearly. If this switch is active, the center speaker will always be used. When the switch is deactivated, the center speaker will only be active when a 5.1 signal with centre channel is being played back.



X-Stereo

With the setting **X-Stereo** you activate the playback of the rear speakers in addition to the 5.1 playback for all stereo sources, such as Internet radio. The front right audio channel is routed to the rear left A100 rear speaker and vice versa. This creates a right / left matrix between the speakers.

If **X-Stereo** is deactivated, the rear speakers are only used / controlled for explicit home theater 5.1 sound formats. They remain silent in normal stereo recordings.

Widening effect

The Revox Audiobar has been designed as a multi-channel speaker for high-quality audio playback. If you wish to experience the audio on its own without additional spatial effects, select **Off**. Particularly for (stereo) recordings, this is the best choice, as the piece of music will already have been given echo and other effects in the recording studio.

For **Wide**, a basic stereo extension is used to expand the virtual stage to the right and left. This creates a breadth effect, and it is as if the Audiobar had speakers outside of its physical dimensions. This sound setting is particularly advantageous for classic stereo recordings and films.

Xwide has the same characteristics as *Surround sound 1*, but with a stereo base that is extended even further.

S100 Position

In the on-screen menu (OSD) of the audio bar, you can define which installation variant applies to you - see chapter *Installation and assembly*, page 6

The audio bar has 4 predefined sound characteristics which, depending on the positioning of the audio bar, enable optimal results. Reflective surfaces and distances to the wall behind the audiobar are taken into account.

TV Boost

With some TV sets, the level via the TV-ARC output is very low, so that the TV sound is quieter compared to the other sources in the audio bar. When TV Boost is activated, this level difference is compensated for by a 10 dB increase in the level for the **TV** source of the audio bar. Activation or deactivation can also be carried out with the help of the RC100 IR remote control by pressing the TV source button for at least 7 seconds. or more information, see chapter RC100 remote control on page 5.

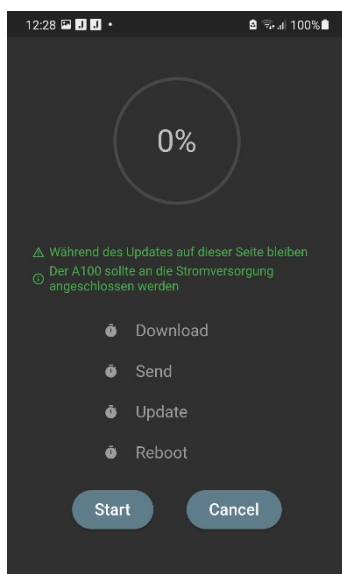
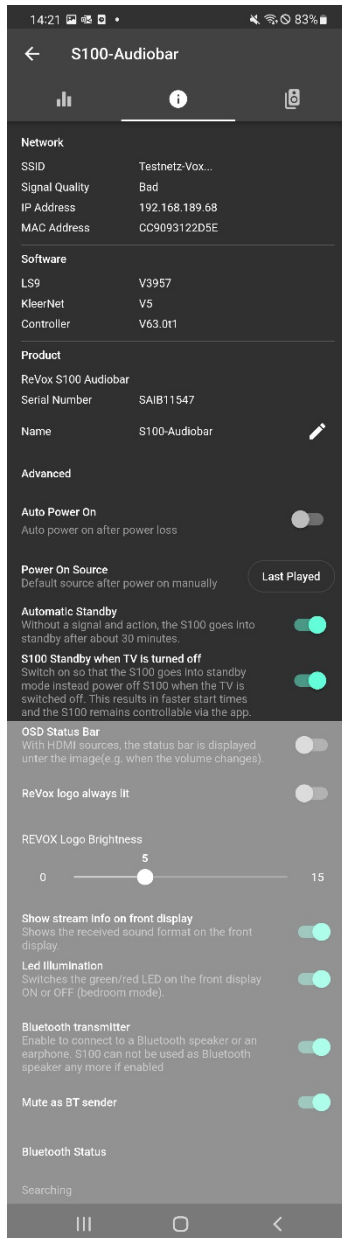
HDMI 1-3 Boost

Some AV devices (e.g. Blu-ray players) have a low audio output level via the HDMI output, so that the sound is quieter compared to the other sources in the audio bar. When HDMI Boost is activated, this level difference is compensated for the respective HDMI source. In the submenu of HDMI Boost, each of the three HDMI inputs has an individual setting option. Activation or deactivation can also be carried out using the RC100 IR remote control by pressing the HDMI source button (1-3) for at least 7 seconds. Further information can be found in the chapter RC100 remote control on page 5.

5.1 Center Gain

When playing 5.1 Dolby Digital sound formats, it is sometimes necessary to adjust the volume of the voice range via the center loudspeaker. In the OSD menu you can increase the volume in 9 steps (0 - 9 dB). This setting can also be carried out with the help of the RC100 IR remote control by pressing the Play/ Pause button for at least 4 seconds and then using the **UP / Down** buttons to select the center volume. For this purpose, the display of the audio bar shows **C00 - C09**. Further information can be found in the chapter RC100 remote control.

Info setup



Network

In the network settings, the selected WiFi network (SSID name) and the assigned IP address are displayed. Furthermore, the MAC address of the WiFi adapter can also be accessed.

Software

In this section, the versions of the following S100 modules are listed:

LS9: Streaming platform // **Update**
Kleernet: Wireless connection for speaker pairing
Controller: S100 main processor

Update

 V3957_V40

If an update is available, this is displayed in green text with a cloud symbol in the LS9 area. With a tap on the field, the update process for the **STUDIOART** speaker can be started, which is handled entirely via the app. The figure below on the left shows the update page for the **STUDIOART** products with their 4 update steps Download, Send, Update and Reboot. Please pay attention to the instructions, which are shown in green letters!

Product

This is where the exact product designation of the **STUDIOART** product, its serial number and app name are displayed.

Tap on the pencil symbol to customise the **name** of the S100 Audiobar to your needs. Spaces cannot be used in the name.

Advanced

Auto Power On

If the function is activated, the audio bar switches itself on again automatically after a power failure. **Attention:** In the event of a power failure while on vacation, the Audiobar would switch on and play with the last selected volume and source!

Power On Source

This setting allows you to define which source is automatically played back when the Audiobar starts up after being switched on from a de-energised state or a restart.

Available options:

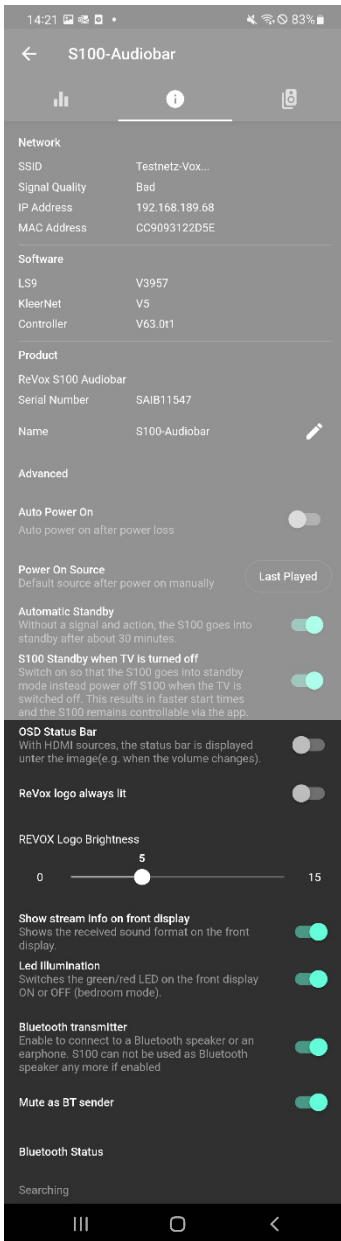
Last heard, Preset station 1-5, Bluetooth, Analogue input, Optical input, Coaxial input. The selection has no influence over the switching back on of the device from standby using the Play/Pause button. In this case, it is always the last source heard that will be activated.

Automatic Standby

If there is no action by the handset, the Audiobar is switched to standby mode after 30 minutes. This applies to all local audio and video sources (e.g. Aux-In, HDMI), but not to streaming sources such as Internet radio or music services.

S100 Standby when TV is turned off

The TV set can automatically switch off the audio bar via the TV-ARC connection. In this menu you can decide whether the audio bar should go into standby (any network connection remains) or whether it should be switched off completely (power-saving mode, any network connection will be disconnected). The latter, however, means that the audio bar can then only be switched on again via the RC100 remote control, the touch surface or together with the TV set. Operation via the APP is no longer possible. Neither does an automatic switch-on via the local inputs when a signal is present.



OSD Status Bar

If the status bar is deactivated, no information (sound format, volume change) is displayed in the current picture during HDMI playback, i.e. the status bar at the bottom of the screen is hidden when playing via HDMI sources.

Revox logo always lit

The Revox logo in the glass section of the Audiobar can be illuminated. If the illumination is not desired, it can be deactivated via this switch. This function has no influence over the touch panel located below the Revox logo.

Revox Logo Brightness

Brightness setting of the Revox logo on the glass surface in the range of 1-15.

Show stream info on front display

When the display is activated, the detected sound formats are shown in the display behind the front grille of the audio bar every time the source (station) is changed.

LED illumination

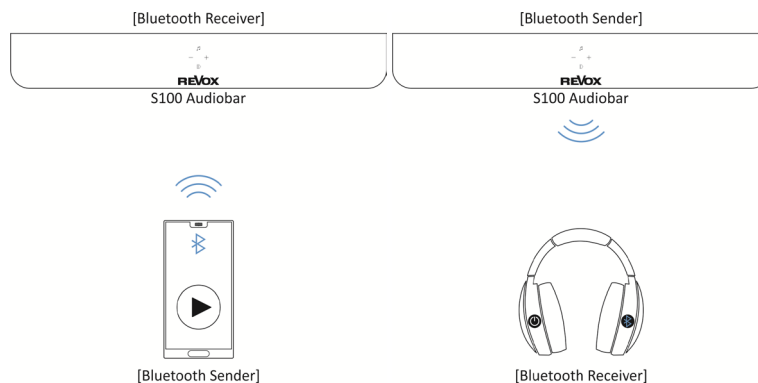
The status LED on the front of the audio bar can be switched off if necessary, e.g. if it is too bright in the bedroom at night.

Bluetooth transmitter

In the factory settings, this Bluetooth transmitter option is deactivated; i.e. the Audiobar acts as a Bluetooth receiver and can play back audio streams from Bluetooth transmitters such as a smartphone. See figure on bottom left.

By activating this switch, the Audiobar itself will become a Bluetooth transmitter, allowing it to supply other Bluetooth receivers with its audio signal. This is highly practical e.g. when used with Bluetooth headphones in order to enjoy films and music in the evening without being disturbed.

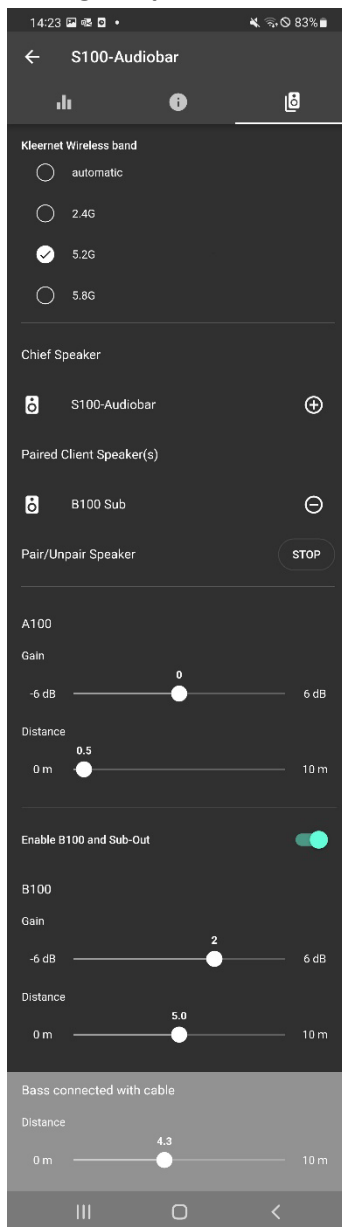
Note: The Audiobar can either act as a Bluetooth transmitter or as a Bluetooth receiver. It is not possible for it to do both simultaneously. Due to this, the Bluetooth source selection is disabled when the Bluetooth transmitter function is active. The Audiobar supports AVRCP, i.e. Pause/Play/Skip is actively supported.



Mute as BT sender

This switch can be used to mute the loudspeakers of the Audiobar when the Audiobar is operating e.g. BT headphones via Bluetooth.

Pairing setup



Kleernet Wireless band

The radio band setting allows you to choose the communication frequency between the Audiobar and the other **STUDIOART** speakers A100 (rear speakers) or B100 (additional subwoofer) connected via radio. With the automatic setting, the audio bar **automatically** selects the frequency. If there are interferences in the KleeNet communication due to other radio-based devices, the frequency can be selected manually. You can choose between **2.4 GHz**, **5.2 GHz** and **5.8 GHz**. The set frequency is the same for all connected speakers. There is no need to set the frequency on the connected loudspeaker; this automatically adjusts to the frequency of the audio bar. A maximum of three KleeNet systems can be operated in parallel in a household. A different frequency must be selected for each system.

Chief speaker

The main speaker is shown here. If it has been renamed, the name chosen by the user will appear here.

Paired Client Speaker(s)

The section **Paired Client speaker(s)** shows all speakers which are connected to the Audiobar wirelessly. At the moment, two A100 active speakers or a combo of A100+P100 can be connected as rear surround speakers. As additional support to the 4 built-in subwoofer chassis in the S100, a B100 bass module can be added as an external subwoofer. They are connected via the menu *Pair/Unpair Speaker*.

Pair/ Unpair Speaker

START the pairing routine to add new **STUDIOART** speakers wirelessly or to disconnect speakers that are already connected. This routine is described in greater detail on the next page.

Enable B100 and Sub-Out

If **no** B100 subwoofer is paired to the S100, this feature can be used (enabled) to eliminate bass frequencies below 120Hz; e.g. out of consideration for sleeping roommates.

With a paired B100 subwoofer, the bass below 120 Hz will be reproduced by the B100 when the switch is active. At the same time, the Audiobar is relieved in the deep bass below 120 Hz. This allows a higher overall volume to be achieved.

If you deactivate this function, the audio bar takes over the bass components below 120 Hz again. The B100 remains silent, but does not lose its KleeNet connection.

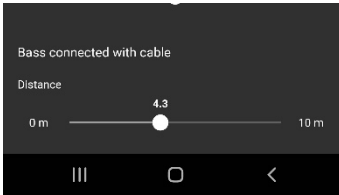
A100 / B100

If a pair of **A100 active speakers** are integrated/paired as surround speakers or a **B100 base module** has been integrated/paired, the parameter **gain** can be used to adjust the volume of these effect speakers within a range of ± 6 dB.

The parameter **distance** specifies the number of metres the Audiobar is further away from the listener's position than the surround speaker/subwoofer.

Example: *Distance between Audiobar and listener's position* = 3 m
 Distance between surround speaker to listener's position = 1 m
 Distance = [2m]

Note: The menu for this setting is always available, even if there is no effect speaker integrated.



Bass connected with cable

Traditionally wired active subwoofers such as the Revox *Active 04* can also be connected to the audio bar. The music signal is passed on from the audio bar to the active subwoofer using a mono cinch cable (**Sub OUT** socket). The **Distance** parameter specifies how many meters the audio bar is further from the listening position than the external subwoofer.

Example: Distance between Audiobar and listener's position = 3 m

Distance between subwoofer and listener's position = 2.5 m

Distance = [0.5m]

Note:

For automatic signal detection, which many subwoofers have, it is advantageous if a T-adapter is used with a stereo input (R + L). The level of the mono signal (from the S100) is doubled and the external subwoofer switches on reliably even at low levels.

This settings menu is always available, even if no external subwoofer is connected.

Connect/disconnect speaker Start

When pairing, the S100 Audiobar (**main speaker**) can be supplemented with additional effect speakers in order to achieve home theatre audio with 5.1 surround sound. In this configuration, the **STUDIOART A100** (right + left) or A100+P100 serve as rear surround speakers, and the **STUDIOART B100** bass module supports the Audiobar as a subwoofer for frequencies below 120 Hz.

Distance: For the pairing process, the Audiobar and the corresponding effect speaker should not be more than 2 m away from each other. During subsequent operation, the distance may be up to 10 m provided that no strong sources of interference are active nearby, such as WiFi repeaters, microwaves, baby monitors etc.

Disturbance: In the event of disturbances in the KleeNet, manual frequency selection may help; see page 19 wireless band

1. Download and install the free **STUDIOART** app (for Android or Apple).
2. Connect the Audiobar to the home network. The effect speakers are supplied by the Audiobar via the KleeNet wireless signal.
3. Switch on all involved **STUDIOART** speakers.
4. Prepare Audiobar for pairing routine:
 - # Launch the app and go to the setup of the Audiobar # Select the tab # Select Start # ⊕ Activate pairing [Fig.1]
 - # Indicate whether the speaker to be included is a left/right surround speaker or a subwoofer [Fig.2] # Perform step 5 within 60 seconds

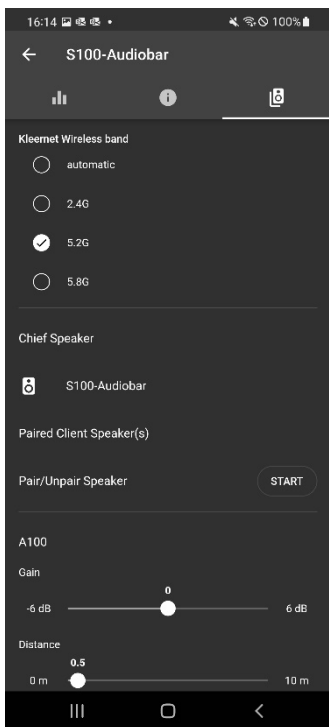


Fig. 1

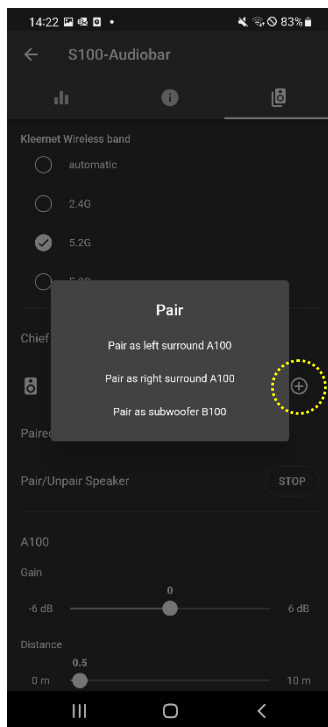


Fig. 2

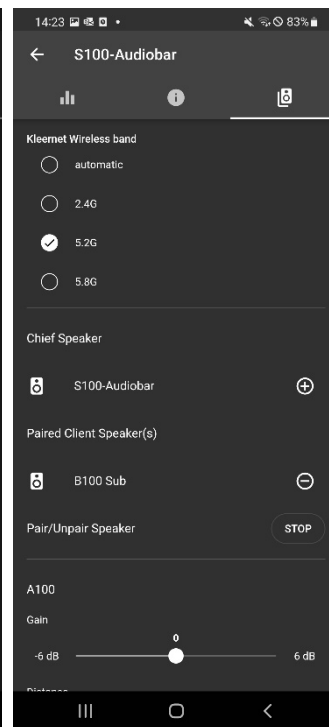


Fig. 3

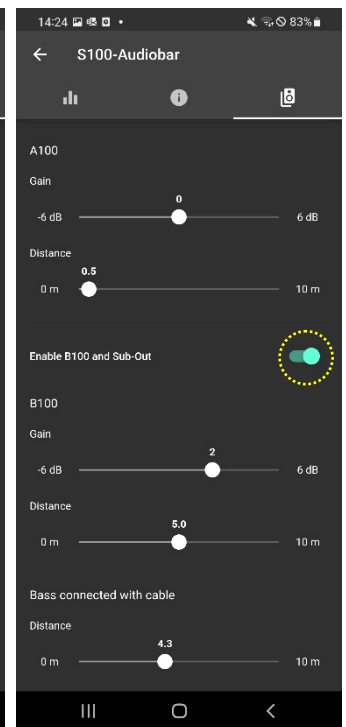
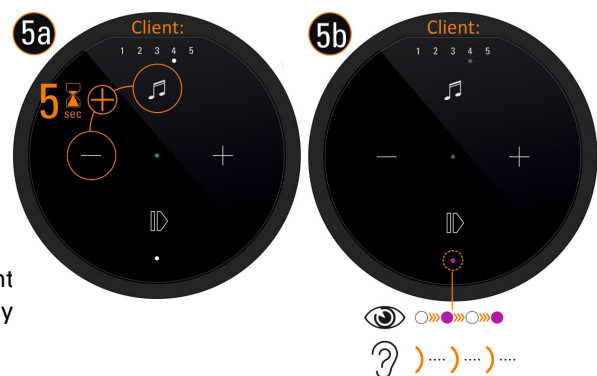


Fig. 4

5. **Define two A100 as surround speaker (left/right):**
Press and hold + for approx. 5 sec (5a) - Status LED flashes quickly and a periodic **beep** can be heard (5b)

Each A100 (right / left) must be integrated individually as a rear speaker. Music can only be played when **both** A100s are displayed as *Paired Client Speaker(s)*.



Define **A100 + P100 combo as surround loudspeaker *** (left / right) + hold for approx. 5 seconds (5a) - Status LED flashes quickly and a periodic beep is audible (5b)



Only the A100, either as right or left surround speaker, will be integrated. The place of installation defines whether it is right or left.

Important: Before the (KleeNet) integration, the P100 must already be connected to the A100 by cable and recognized. In order for the rear surround speakers to also be involved in the playback of stereo sources (e.g. Internet radio), the **X-Stereo** option must be active in the Audiobar setup.



Define B100 as subwoofer:

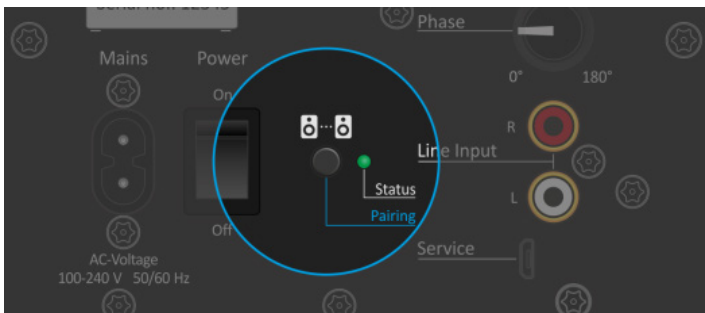
Press and hold pairing button  on rear of B100 bass module for approx. 5 seconds – status LED flashes  – see figure below.

In order for playback to take place via the B100, it must be activated - see Fig. 4 on the previous page / yellow circle.

Otherwise, the bass is played via the integrated subwoofer of the audio bar. Activating B100 limits the lower crossover frequency of the Audiobar to 120 Hz; lower frequencies are only reproduced by the B100.

6. Wait briefly until both devices have found each other and then press **STOP**. In the list of connected speakers, the Audiobar now displays the A100 surround speaker and/or the B100. The status LEDs on the A100 and/or the B100 constantly display the pink LED.

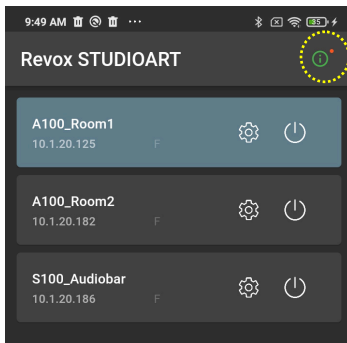
In the basic settings  (tab ), the volume (+/- 6 dB) and the distance (0 - 10.0 m) to the listener can now be configured separately for the surround speakers as well as for the subwoofer.



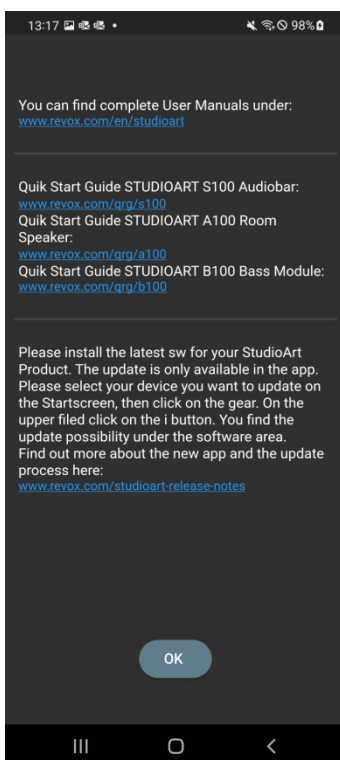
B100 bass module: Rear view of amplifier unit with pairing button

The basic features of the STUDIOART app

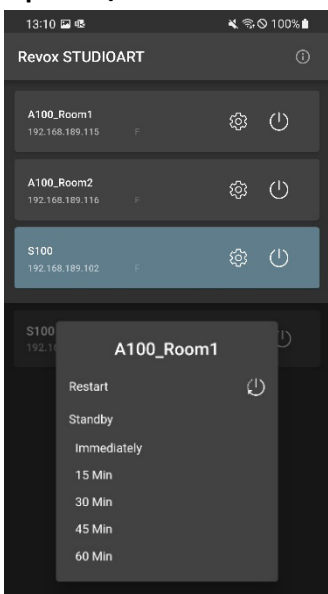
After all **STUDIOART** speakers have been connected to each other, this chapter shows how they can be configured and operated.



After starting, you will see all **STUDIOART** loudspeakers that are already in the network. The information symbol can be seen in the top right-hand corner, which gives you the option of viewing the various brief instructions for the current **STUDIOART** products online in the browser on your handset. There is also a link to the complete operating instructions on the Revox homepage.



Speaker/room selection



In the **first step**, the **STUDIOART** speaker and/or the corresponding room is selected by tapping on the corresponding row. The speaker currently selected (A100 Active Speaker, S100 Audiobar) is displayed in the light gray field. All unselected speakers are shown in dark gray. In addition to the loudspeaker name, the corresponding IP address and the status of the loudspeaker are displayed in the field. An **F** for Free is displayed as a single speaker, i.e. the speaker is not part of a multi-room group and plays its individual content. In multiroom operation, also known as party mode, all loudspeakers belonging to the multiroom group play the music (source) of the master. The master speaker is represented with an **M** and the participating speaker or speakers with an **S** (servant).



The gear symbol opens the configuration menu of the individual **STUDIOART** speakers.

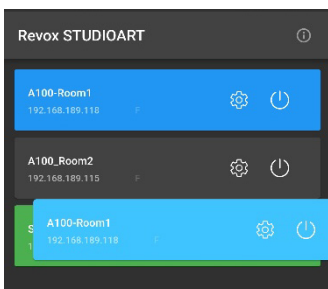


Power menu

Power off Switches the Audiobar off. A restart is only possible via the IR remote control or long pressing on the play/pause button on the top side of the Audiobar

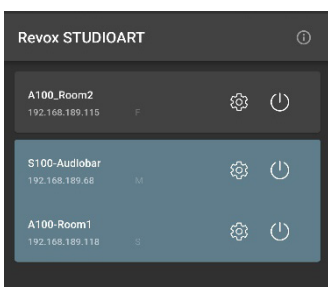
Restart Performs a restart of the Audiobar.

Standby Places the Audiobar in standby mode, either immediately or after 15, 30, 45 or 60 minutes. When in standby, the Audiobar can also be switched back on using the **STUDIOART** App.



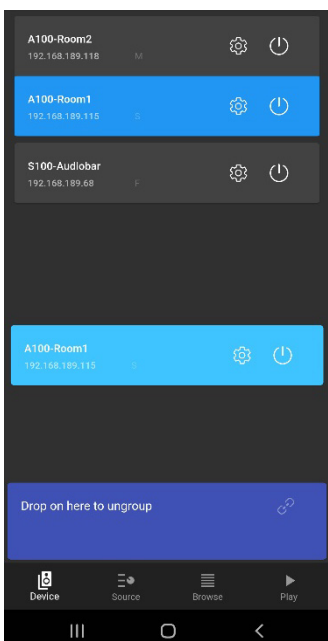
Forming a multi-room group

A multiroom group of several **STUDIOART** loudspeakers can easily be formed by holding the gray field of a free (F) loudspeaker until it turns blue and dragging it onto a field of a free other loudspeaker, which should form together a group - ①. The loudspeaker selected first becomes the servant (S), the other loudspeaker becomes the master (M). The multiroom group is indicated by the common field, whereby the source view and music selection in multiroom mode is always determined by the master - ②.



A multiroom group is dissolved in a similar way. Hold the field of a group participant until it turns blue and then drag it down into the field that appears in purple "Drop on here to ungroup" - ③.

This loudspeaker can now be operated individually again as a free loudspeaker.

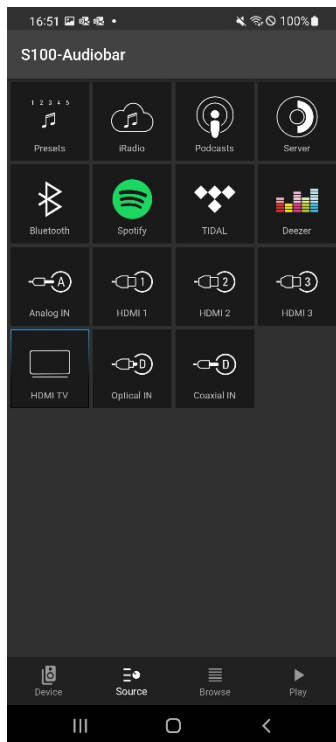


Important note **Multiroom operation**

In multiroom operation, **STUDIOART** loudspeakers can be operated both via LAN and WLAN in the home network. For reasons of stability, however, it is advisable to operate all speakers either in the WLAN or in the LAN.

Caution: Bluetooth and all local sources that are heard via cable with the audiobar's connection panel **cannot** be forwarded from one **STUDIOART** loudspeaker to another in multiroom.

Source and music selection



In the **second step**, the switch symbol is used to select the desired source. Here, the selected source is marked in blue. In the example on the left, the selected source is **Analog IN**.



Preferred internet radio stations can be stored using one of the 5 preset slots of the Audiobar and accessed in future via the preset symbol.



The source iRadio offers over 20,000 internet radio stations which can be selected via pre-sorted lists or a search function.



Podcasts are audio programmes which focus on particular topics. Using the search function or via pre-sorted lists, individual stations can be selected.



The source "Server" displays all shared folders on the network which contain music files. The prerequisite is that a UPnP service is installed on the device which provides the music files. The following music formats are supported: wav, flac, wma, aac, and mp3.



Select Bluetooth to establish a connection between the Audiobar and a Bluetooth transmitter, e.g. a mobile phone. The S100 Audiobar will appear with the name assigned in the setup.

In Bluetooth transmitter mode, the symbol has no function.



Accessing the music service *Spotify* (subscription required). This forwards you to the original Spotify app. It must already be installed on the mobile device. In the Spotify app, select the S100 under *Available devices*. The volume function of the Audiobar is supported in the Spotify app.



Accessing the music service TIDAL (subscription required). This music service is integrated natively into the **STUDIOART** app, i.e. all functions are executed in the **STUDIOART** app.



Accessing the music service Deezer (subscription required). This music service is integrated natively into the **STUDIOART** app, i.e. all functions are executed in the **STUDIOART** app.



The AirPlay (2) option is a symbol for display purposes, not an active source. AirPlay is selected via an Apple device which utilises the S100 as a playback device. In the **STUDIOART** app (also for Android devices), it is merely shown whether the S100 Audiobar is being used as an AirPlay source.



Selection of local analogue input **Analog IN**. This input is equipped with input detection; i.e. as soon as a signal is present at the input, the S100 automatically switches to the source **Analog IN**.



Via the three HDMI inputs **HDMI 1-3**, playback is possible for video devices such as BluRay players, cable/satellite receivers or game consoles. The video signal is forwarded to the TV output (TV ARC), while the audio signal is played back by the Audiobar. A separate audio connection to the Audiobar is not necessary.

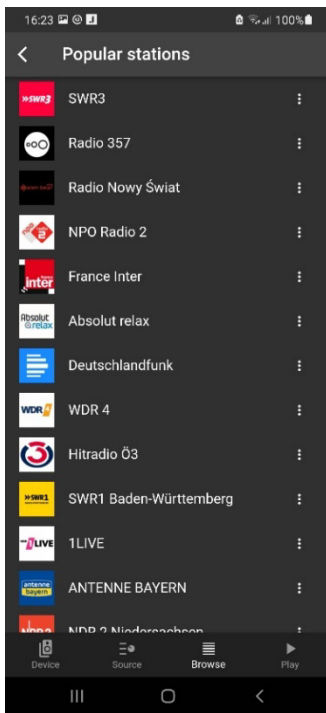


Digital, optical audio sources such as CD players which are connected via an optical fibre cable. Older TV devices without an HDMI **ARC** output often have a TOSLINK output for audio.




Digital, coaxial audio sources which are connected to the Audiobar via a mono coaxial cable.

List selection



☰ In the **third step**, the desired title or station is selected via pre-sorted lists which supply the respective sources or via search functions. The example on the left shows the selection list for **iRadio** with the category **Favourite stations**.

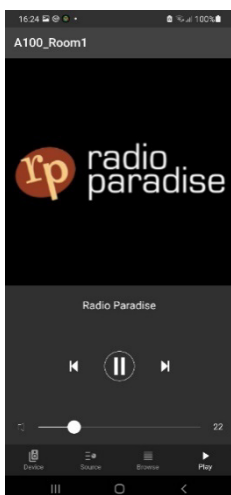
Note: Preset Internet radio/ Spotify

Here you can also use the 3-point symbol  in the top right corner to add the corresponding Internet radio station or Spotify title to one of the 5 presets, which can then be selected directly via the S100 touch surface without **STUDIOART app**.

The selection options in the individual sections are structured flexibly and may change over time.

There are no selection lists for the sources **Bluetooth**, **Analog IN**, **HDMI 1-3**, **HDMI TV**, **Optical IN** and **Coaxial IN**. In this case, you are brought directly to the playback screen, also called the PlayView.

Play view




Preset-PlayView



The **fourth step** is where the title or the source is shown with a cover. Furthermore, the volume slider can be used to adjust the volume within a range of 0-100% on this screen. The **Pause/ Play** button in the middle of the screen also allows the playback to be paused. After being idle for approx. 20 minutes, the Audiobar automatically switches to **standby** mode.

In addition, some sources also offer the control buttons **Next** and **Previous**.

Note: Preset Internet radio/ Spotify


Here you can also use the 3-point symbol  in the top right corner to add the corresponding Internet radio station or Spotify title to one of the 5 presets, which can then be selected directly via the S100 touch surface without **STUDIOART app**.

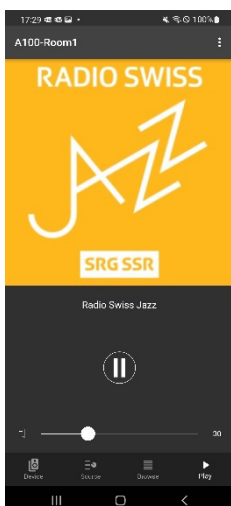
Preset Internet radio

Select an Internet radio station from the selection list. This is displayed with cover in the PlayView - see figure below left. This transmitter can now be assigned to one of the 5 presets with the 3-dot symbol.

Preset Spotify


The Spotify title is selected in the original Spotify app and played over the **STUDIOART** loudspeaker (device selection). The Spotify title then appears there in the playback view and can be saved as a preset like a radio station using the 3-point symbol.

If the music was selected from one of the 5 preset stations, the 3-point symbol no longer appears because the station/track has already been saved as a preset. Instead, Skip buttons  are available to jump directly from one preset to another.



Radio Selection - PlayView

1. The Audiobar is not shown in the STUDIOART app

The **STUDIOART** app does not show the Audiobar in the device list (left main tab with speaker symbol ) , even though a connection was established in the past.

Possible causes:

The A100 is switched off and therefore no longer has a network connection to the **STUDIOART** app. In battery mode, the A100 will automatically turn off completely after 20 minutes of inactivity to extend battery life.

Solution : Switch on the A100 by pressing and holding the play/pause button

Possible causes:

The S100 Audiobar is not on the same network as the **STUDIOART** app.

Solution: Check WiFi settings of the mobile device and select the same network as the S100 if necessary.

Possible causes:

The network name (SSID) of the WiFi and/or the WiFi password (WiFi key) which was used to register the Audiobar on the network was changed.

Solution: Re-register the Audiobar on the WiFi network by performing the installation steps. Remember to use the new network name and/or password.

Possible causes:

The WiFi communication between the Audiobar and the **STUDIOART** app has been interrupted/is malfunctioning.

Solution 1: Deactivate WiFi in the settings of the mobile device and re-activate it.

Solution 2: Close the **STUDIOART** app and restart it.

Solution 3: Restart S100 > Press Play/Pause button on the touch interface for more than 2 seconds, wait briefly, then press the Play/Pause button again until the Audiobar starts up.

Solution 4: Turn repeater off and then on again.

Solution 5: Restart (WiFi) router/access point.

Solution 6: Re-register the S100 on the WiFi network by performing the installation steps again.

Solution 7: In the WiFi settings of the router, the option "Allow WiFi devices to communicate with each other" is not activated in the SECURITY section. Activate/permit this option.

Possible causes:

Third-party devices near the S100 and/or between the router and S100 are interfering with WiFi communications. This may be triggered by these third-party devices operating their own WiFi hardware or due to the use of frequency ranges which are similar to those of the WiFi. The following device categories may impact WiFi communications.

- 2.4 GHz baby monitors
- Wireless video transmitters which utilise the 2.4 GHz or 5 GHz WiFi frequency range
- Wireless audio systems such as Bluetooth which utilise the 2.4 GHz or 5 GHz WiFi frequency range
- Wireless extenders and access points
- 2.4-GHz or DECT wireless telephones
- Microwaves that are switched on
- Set-top box or cable box with wireless technology
- Surveillance cameras with wireless technology
- Direct proximity to other wireless devices (e.g. digital photo frames, garage door openers, mice and keyboards)

Solution 1: Switch off any third-party devices and check whether the malfunction still exists. If the cause of the interference has been found, the distance to these devices should be maximised.

*Solution 2: In the WiFi settings of the router, change the channel selection from automatic to a particular channel that is not affected by the wireless interference. There are currently (2021) many sources of interference in the 2.4 GHz range, but less in the 5 GHz range. In the 5 GHz range, only use the channels 48-140, as the audio transfer (KleerNet) between the paired **STUDIOART** products takes place below and above these channels.*

*Solution 3: Use a LAN connection instead of a WiFi connection. If no LAN connection is available at the installation site, powerline adapters can be used to establish a LAN connection between the router and the **STUDIOART** product via normal power cables (230 V AC). This wired transmission technology is highly resistant to wireless interference. Popular manufacturers of powerline products are the companies Devolo and TP-Link.*

2. The STUDIOART app indicates that the mobile Android device no longer has a network connection

Possible causes:

The energy saving mode is activated on the mobile device with an Android operating system.

*Solution: Close the **STUDIOART** app and deactivate energy saving mode, then re-launch the **STUDIOART** app.*

3. Connected STUDIOART products lose their paired status or the audio is interrupted

STUDIOART products such as the S100 Audiobar or the B100 bass module can be connected to each other via the KleerNet wireless system. For such a connection between the S100 and B100 or S100 and A100, interruptions are heard in the audio transmission or the connected speaker (client) is not recognised and/or not automatically switched on together with the *Chief*.

Possible causes:

The frequencies used for the KleerNet pairing in the 5 GHz range on the channels 36-44 and above 140 are also used by the WiFi router.

Solution: In the WiFi settings of the router, change the channel selection from "automatic" to a channel from 48-140.

4. Automatic switch-on from local input *Analog IN* is not triggered

Possible causes:

The level of the line input is too low. This may occur with music that has soft sections.

Solution: If necessary, increase the output signal of the music source while also reducing the volume level on the S100 Audiobar.

5. The S100 is not listed as a playback device on my Bluetooth®-enabled device/mobile phone

Possible causes:

The Bluetooth source is not active or the S100 is in standby mode.

Solution: Ensure that the S100 is switched on and that Bluetooth is active as a source. The source BT will be shown on the display of the Audiobar.

Possible causes:

The S100 is already connected to another Bluetooth-enabled device.

Solution: Sever the connection between the S100 and the other Bluetooth-enabled device. Now the S100 can be connected with your Bluetooth-enabled device.

Possible causes:

In the configuration settings, the Audiobar is defined as a Bluetooth transmitter (e.g. for BT earphones) and not as a Bluetooth receiver.

Solution: In the configuration settings, deactivate the option "Bluetooth transmitter"

6. When playing an album, music playback stops at the end of a title

Possible causes:

The display standby on the mobile device was activated manually. The **STUDIOART** app was closed while playing the album.

*Solution: Do not close the **STUDIOART** app. The **STUDIOART** app prevents the automatic display standby of the mobile device for the sources Server, TIDAL and DEZER so that the music playback is not interrupted.*

7. When playing a BluRay / DVD via the input HDMI 1-3, no sound is heard

Possible causes:

The BluRay or DVD outputs the audio in the DTS/DTS HD format, which the Audiobar cannot decode.

Solution: Set the output audio format on the playback device/BluRay player to Dolby Digital or PCM.

Technical data S100

Audio data

Speaker principle	Active bass reflex system with dual port	
Frequency response	44 -20000 Hz (-3 dB)	(with deactivated B100 / Sub-out)
	120 -20000 Hz (-3 dB)	(with activated B100 / Sub-out)

Max. sound pressure level 100 dB/ 1m

Power amplifier

Power – Full-range	3 x 30 watts for 70mm full-range speakers (right, left, centre)
Power – Subwoofer	4 x 30 watts for 84mm subwoofer speaker (bass)

Audio codec Dolby Audio

Inputs

Analog IN	
Digital Optical	192 kHz/24 bit (TOSLINK is officially only designed for up to 96 kHz/24 bit)
Digital Coaxial	192 kHz/24 bit
HDMI 1-3	V2.0 with 4K support
TV (HDMI 2.0 ARC)	V2.0 with 4K support
Bluetooth	BT 4.2 with aptX

Electrical data

Voltage range	100 -240V AC [50-60 Hz]	
Power consumption	max. 210 watts	
	approx. 14 watts	(typical at low volume)
Standby consumption	< 0.7 watts	(deep standby - LED is red)
	< 8 watts	(standby with active network - LED is green)

Shutdown delay 20 minutes in auto mode

Dimensions

Housing height	118 mm
Housing width	1000 mm
Housing depth	145 mm (without connecting cable)

Operating conditions

Ambient temperature	+10° ... + 40°C / 50° ... 104° F
Relative humidity	Class F (DIN 40040)
Weight	10.2 kg (without packaging)

Errors and omissions excepted.

Caring for your device

The glass interface panel of the S100 Audiobar can be cleaned with a mild window cleaner. However, the enamelled housing surfaces as well as the front grille should only be cleaned with a damp cloth and subsequently wiped dry with a soft cloth. Do not use any cleaning agents or abrasive agents for this purpose.



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