

Audio issues



Most audio issues on Batocera **v31** and below have been fixed with the release of **v32**. This is because Batocera **v32** introduced a brand new sound management layer (Pipewire) to handle most of the audio stack. This article is more here for users on older versions or those really persistent audio issues.

I have no sound!

If trying to use HDMI sound on a Radeon GPU, first check [that you have enabled the setting in the boot line](#). If on a Nvidia card, make sure your [official drivers are activated](#).

When that's all clear, first experiment with different settings in **MAIN MENU** → **SYSTEM SETTINGS** → **AUDIO PROFILE**. You should get sound immediately when exiting back to the **MAIN MENU** (there is background music playing by default). If you're still not able to get any sound, try also manually setting an **AUDIO OUTPUT** device (they change with each different profile, you need to exit back to **MAIN MENU** to update the list). To rigidly test all your hardware's possible audio output modes (this may take a lot of trial and error, but only needs to be done once):

1. Go to **MAIN MENU** → **SYSTEM SETTINGS** → **AUDIO PROFILE** and select the first profile, then back out to the **MAIN MENU**.
2. Go back into **SYSTEM SETTINGS** → **AUDIO OUTPUT** and test all available outputs, exiting to the **MAIN MENU** between each change.
3. If none of the **AUDIO OUTPUT** options worked, repeat steps 1-2 for a different **AUDIO PROFILE**. Your **AUDIO OUTPUT** options might change depending on the **AUDIO PROFILE** selected.



In **v32** and higher, going into Kodi to test various audio outputs live is no longer required. This can all be done from within the EmulationStation **MAIN MENU** → **SYSTEM SETTINGS** audio settings, then backing out, no reboot required.

In Batocera **v31** and lower, only **AUDIO OUTPUT** is selectable and a reboot is needed for changes to take effect. You can instead quickly test each audio device by using Kodi:

1. Launch [Kodi](#) from the **Main Menu**, then navigate to **Settings** (the small gear symbol near the top left corner), **System**, **Audio**, **Audio output device** and test all available Audio output devices listed there. If you navigate with a controller or keyboard through Kodi, you will hear a "click" sound while navigating menus when you have chosen the correct/working Audio output device.
2. Remember the name/number of this working Audio output device (for example HDMI#0), exit Kodi and go to the Batocera **Main Menu** > **System Settings** > **Audio** and select the Audio output device, which has the same (or at least a similar) name to the one that works in Kodi. Then reboot and you should have working audio.

3. You can also diagnose some sound issues with the `alsamixer` sound mixer that is available when pressing `[Ctrl]+[Alt]+[F4]` (text-mode sound mixer). Make sure that all the outputs are enabled, and they have their volume up. You can return to Batocera with `[Ctrl]+[Alt]+[F2]`.

I have sound in Kodi, but not in the main menu or emulators even after selecting the audio device from the above steps and rebooting



No longer applicable for **v32** and up. EmulationStation can see all audio devices and profiles.

It could be that, for one reason or another, Kodi sees the audio device order differently to EmulationStation. Do the following:

1. In Kodi, go to back to the **Audio output device** list.
2. Now on the device listing, count from the top to the bottom (first device listed is #0, the second is #1, etc.).
3. Remember which # your working device is (let's use #4 in this example).

Then, edit your `system/batocera.conf` file from the network share/built-in file manager (F1 on the main menu) like so:



Don't use Windows' Notepad as that will corrupt your `batocera.conf` file! Use a Unix-respecting editor like Notepad++ or just use Batocera's built-in file manager if you're not sure.

1. `[Ctrl]+[F]` and find "audio.device=", it should be set to your (currently not working) audio device.
2. Replace the second digit with your audio number. For instance, if it is `audio.device=0,3`, then according to our example it would be `audio.device=0,4`. The following text doesn't particularly matter, that's just the label it shows in EmulationStation.
3. Reboot, and if your audio still isn't working then try `audio.device=1,3`, then `audio.device=2,3` and so on.

I have sound in emulators and the main menu, but not during video previews



No longer applicable for **v32** and up. `.asoundrc` isn't read by Pipewire (there shouldn't be this specific problem in the first place anymore). **v32** and up will **automatically remove** `/userdata/system/.asoundrc`.

If you have sound on EmulationStation, and in the emulators, but you can't hear the sound of the video snapshots, here are several steps that may help you:

1. First, make sure you have enabled video snaps sounds in the menu **Sound Settings** → **Enable Video Audio**
2. Then, you can try to [connect to Batocera through SSH](#) and enter the following command:

```
wget -O /userdata/system/.asoundrc
https://www.batocera.org/users/lbrpdx/asoundrc
```

This command will create an alsa config file as /userdata/system/.asoundrc. It should fix your video snap sounds for most SBC like Odroid Go Advance, but maybe not on a PC.

On a PC, depending on your hardware configuration, your GPU and audio chipset, it might be trickier to get it working.

First, through SSH, get the list of audio outputs with the command `aplay -l`. In my setup, I get:

```
# aplay -l
**** List of PLAYBACK Hardware Devices ****
card 0: PCH [HDA Intel PCH], device 0: ALC255 Analog [ALC255 Analog]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 3: HDMI 0 [HDMI 0]
  Subdevices: 0/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 7: HDMI 1 [HDMI 1]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 8: HDMI 2 [HDMI 2]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 9: HDMI 3 [HDMI 3]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 10: HDMI 4 [HDMI 4]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
```

If I want to use the audio output from HDMI0, I can see that it is card 0 and device 3. So, to make audio work on my setup, I need to edit the /userdata/system/.asoundrc file and replace `pcm "hw:0,0"` with `pcm "hw:0,3"`, and then save and on reboot, it worked. This method might not work in 100% cases, but it's worth a try.

Worst case, if it doesn't work and you want to go back to the original state, just remove the file /userdata/system/.asoundrc (or \system\.asoundrc from the network share).

No sound during the splash video

First of all, check that the `splash.screen.sound` value in the `batocera.conf` file is set to 1.



The following is no longer applicable for **v32** and up. Pipewire is used, not Alsa, which has a completely different configuration (there shouldn't be this specific problem in the first place anymore).

If this isn't the cause of the problem, you may need to edit the file containing the splash screen command to add the correct sound device:

1. Run the command `mpv --audio-device=help` on your batocera using SSH
2. Locate the sound device you need to use, for exemple `alsa/hdmi:CARD=HDMI,DEV=2`
3. Edit the file `/etc/init.d/S03splash`
 - find the line `/usr/bin/mpv --really-quiet -fs --no-config --vo=drm $mpv_audio $mpv_video "$video" &` and add `--audio-device=DEVICE` where `DEVICE` is the name you found previously (in our exemple, the line will become `/usr/bin/mpv --audio-device=alsa/hdmi:CARD=HDMI,DEV=2 --really-quiet -fs --no-config --vo=drm $mpv_audio $mpv_video "$video" &`)
4. Run the command `batocera-save-overlay` to keep the changes.
5. Reboot
6. When updating batocera, those changes will be lost.

My audio is randomly cutting out, depending on what's happening on screen

It could be that your audio buffer isn't high enough.

You can change your default audio buffer for libretro cores by navigating to **MAIN MENU** → **GAMES SETTINGS** → **PER SYSTEM ADVANCED CONFIGURATION** → <system affected by audio cutting out> → **AUDIO LATENCY**.

To change the setting for all libretro cores, you can add `global.audio_latency=128` to your `batocera.conf` file, with your intended buffer in milliseconds. Try a higher number if it's still cutting out, it should gradually get better. If it isn't gradually getting better, refer to the [section below](#).



Note that this mostly only affects libretro cores. If you have audio skipping on other emulators which this setting has no effect on, you'll need to discover how to adjust the audio buffer settings for that emulator in particular (usually can be found on its [system page's](#) troubleshooting section).

My audio is randomly cutting out, and/or is distorted, on my RPi but only when using the headphone jack, and not the

HDMI audio output

This is a very specific situation. The RPi seems like it overflows the audio buffer seemingly at random with the default audio drivers and latency. This can be solved by either:



- Increasing the audio latency as above (some Pis can do this with just 96ms, others require significantly higher settings like 256ms which is obviously not desirable)
- Switching the audio driver to `tinyalsa` (this will end up breaking HDMI audio output)

Via `batocera.conf`

Add `global.retroarch.audio_driver=tinyalsa` as a new line to your `system/batocera.conf` file.

Via RetroArch's Quick Menu

To switch the default audio driver for Libretro cores:

1. Run a game that uses a Libretro core.
2. Press [HOTKEY] +  to open the RetroArch Quick Menu.
3. Press  twice to exit to the main menu.
4. Navigate to **Settings** → **Audio** → **Output** → **Audio (Audio driver to use.)** and switch it to `tinyalsa`.
5. That's it. Simply changing this setting saves it. You can exit out of the emulator now.

If the setting keeps going back to `alsathreaded/alsa`:

- Use the `batocera.conf` method
- Disable any configuration overrides you might be using
- Disable any core overrides you might be using
- Disable any folder overrides you might be using
- Delete any overlays you might be using



This only works for Libretro cores, which is most of the systems that can be emulated on the Pi anyway. Other emulators either require advanced knowledge on changing their audio configuration, don't support the `tinyalsa` driver, aren't affected by audio cutting issues or would experience audio cutting issues anyway.

My audio is consistently cutting out, irrelevant of what my system is doing

This is more likely to be a hardware fault. Replug the cable, try a different cable, using a different

interface (like 3.5mm analog audio instead of HDMI), etc.

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