

# Star Engine/Sonic Retro Engine



Star Engine (formerly Sonic Retro Engine) are multiple engine ports developed by Rubberduckycooly. They were released in 2021.

These engines, part of the [Ports](#) section of Batocera, are enhanced versions of the original Sonic 1, 2 and Sonic CD for the Sega Megadrive/Genesis and CD32. They require additional game files from the recent iOS/Android ports to setup the games.

This system scrapes metadata for the "sonicretro" group(s) and loads the sonicretro set from the currently selected theme, if available.

Grouped with the "ports" group of systems.

## Quick reference

- **Accepted ROM formats:** .son, .scd
- **Folder:** /userdata/roms/sonicretro

### Emulators

[sonic2013](#)

[soniccd](#)

## BIOS

The Star Engine itself does not need any BIOS file to run, however it is non-functional without the appropriate .rsdk file for the Sonic game you wish to play.

## Data Files Setup ("ROMS")

### Sonic 1 and 2

This port requires the .rsdk files from the Android or iOS versions of Sonic 1 & Sonic 2.

The Android APKs can be opened up in an extractor program like 7-zip. You need to extract the file /assets/Data.rsdk.xmf and rename it to Data.rsdk and place it in a folder named [Game Name].son (for example Sonic 1.son).

## Sonic CD

For Sonic CD, you can use the files from the Android, iOS, or Steam versions, as well as the video files from the Steam version.

The APK can be extracted the same way. If you're using the Steam version, the Data.rsdk file is in the game's folder.

The Data.rsdk file and videos folder should be in a folder named [Game Name].scd (i.e. roms/sonicretro/Sonic CD.scd/).

## Working game data files

Here are the checksums of some data files that have been reported to be working.

Sonic game	Game file	md5
Sonic 1	Sonic 1.son/Data.rsdk	f679e87477bbed17ff1bdb9a6793f49c
Sonic 2	Sonic 2.son/Data.rsdk	b7339e7a4cf4ae6264449eec06465c7c
Sonic CD	Sonic CD.scd/Data.rsdk	78a03b962acf3e2622addab9cdb8e2ce

## Emulators

Batocera will auto-select the port to use based on the folder's extension - sonic2013/rsdk4 for .son folders, or soniccd/rsdk3 for .scd folders.

Selecting the wrong emulator will be ignored as the two versions are not compatible. The options are slightly different between the two, so you may need to manually select the emulator to change them.

The dev menu option is needed to run mods.

### sonic2013

#### sonic2013 configuration

Standardized features available to all cores of this emulator: sonicretro.videomode

ES setting name batocera.conf_key	Description ⇒ ES option key_value
<b>Settings that apply to all cores of this emulator</b>	
<b>LANGUAGE</b> sonicretro.language	Change the game language ⇒ English 0, French 1, Italian 2, German 3, Spanish 4, Japanese 5, Portugese 6, Russian 7, Korean 8, Chinese 9.
<b>VSYNC</b> sonicretro.vsync	Enable vertical sync ⇒ Off 0, On 1.

ES setting name batocera.conf_key	Description ⇒ ES option key_value
<b>SCALING MODE</b> sonicretro.scalingmode	Screen scaling options ⇒ Nearest Neighbour 0, Integer Scale 1, Sharp Bilinear 2, Regular Bilinear 3.
<b>HQ Mode</b> sonicretro.hqmode	Enable High Quality effects for special stages ⇒ Off 0, On 1.
<b>SKIP START MENU</b> sonicretro.skipstart	Bypass the pre-game menu ⇒ Off 0, On 1.
<b>DEV MENU</b> sonicretro.devmenu	Modding and other advanced options ⇒ Off 0, On 1.

## soniccd

### soniccd configuration

Standardized features available to all cores of this emulator: sonicretro.videomode

ES setting name batocera.conf_key	Description ⇒ ES option key_value
<b>Settings that apply to all cores of this emulator</b>	
<b>LANGUAGE</b> sonicretro.language	Change the game language ⇒ English 0, French 1, Italian 2, German 3, Spanish 4, Japanese 5.
<b>VSYNC</b> sonicretro.vsync	⇒ Off 0, On 1.
<b>SCALING MODE</b> sonicretro.scalingmode	Screen scaling options ⇒ Nearest Neighbour 0, Integer Scale 1, Sharp Bilinear 2, Regular Bilinear 3.
<b>HQ Mode</b> sonicretro.hqmode	Enable high quality effects for special stages ⇒ Off 0, On 1.
<b>SPINDASH TYPE</b> sonicretro.spindash	Spindash type ⇒ By Save -1, Sonic 2 0, Sonic CD 1.
<b>DEV MENU</b> sonicretro.devmenu	For modding and other advanced options ⇒ Off 0, On 1.

## Controls

Here are the default Sonic Retro Engine's controls shown on a [Batocera Retropad](#):



## Troubleshooting

### Further troubleshooting

For further troubleshooting, refer to the [generic support pages](#).

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