

# Sega Hikaru

The Sega Hikaru is an arcade system board released by Sega in 1999. It was an evolution of the [NAOMI](#) hardware with superior graphics capabilities, featuring two Hitachi SH-4 CPUs and the first arcade platform capable of Phong Shading. Due to its high production cost, Sega abandoned the platform in favor of [NAOMI](#) and [NAOMI 2](#) development, resulting in a very small library of dedicated-cabinet games.

This system is only available on **x86\_64** builds.

## Quick reference

- **Emulators:** [Demul](#) (default), [MAME](#), [RetroArch](#)
- **Cores available:** [Demul](#), [MAME \(standalone\)](#), [libretro: MAME](#)
- **Folder:** /userdata/roms/hikaru
- **Accepted ROM formats:** .zip, .7z

## BIOS

No BIOS files are required for MAME or Ir-mame.

For Demul, BIOS files are managed internally by the emulator.

## ROMs

Place your Sega Hikaru ROMs in /userdata/roms/hikaru.

ROMs should be in zipped format compatible with **MAME 0.284** or later.



The emulators are still work in progress for Hikaru games, so mileage will vary. Performance depends on your x86\_64 system hardware. If you get audio stuttering and slow music, your system is not powerful enough to run this system.

## Emulators

## Demul

Demul is a Sega Dreamcast and arcade emulator running under WINE. It is the **default emulator** for Hikaru in Batocera.



Your graphics card requires **Vulkan drivers** for Demul to work.

### Demul: First start

You need to run a ROM at least once **and** be connected to the internet. This creates the directory structure and installs the associated Windows libraries for WINE.

It may take some minutes before the game starts on first use — this is normal. Please be patient as it can take up to 2 minutes depending on your internet connection speed.

### Demul: Controllers

Currently controllers cannot be configured using the desktop app. This is a limitation of the Demul app under WINE but also a known buggy pad plugin, even under Windows. Currently 2 players are mapped using the emulator's default keyboard configuration via evmapy.

### Demul: Service Menu

A keyboard is required. You can access the Service Menu using **F4** and then use **F2** to navigate with **F4** to select.

### Demul configuration

ES setting name	batocera.conf	key	Description » ES option key value
<b>GAME ASPECT RATIO</b>	<code>hikaru.demuRatio</code>		Set the game aspect ratio. » Stretch 0, 4:3 (Default) 1, 16:9 2.
<b>VSYNC</b>	<code>hikaru.demuVSync</code>		Fix screen tearing. » Off 0, On 1.

### Demul: Compatible ROMs

Demul has a specific list of currently compatible ROMs:

ROM name	Game title
<code>airtrix</code>	Air Trix (Rev. A)
<code>airtrix0</code>	Air Trix (original)
<code>braveff</code>	Brave Firefighters

ROM name	Game title
hikcheck	Hikaru Check ROM BD
pharrier	Planet Harriers (Rev. A)
swracer	Star Wars: Racer Arcade
sgnascar	NASCAR Arcade (Rev. A)
sgnascaro	NASCAR Arcade (original)
von4	Cyber Troopers Virtual-On 4: Force (Rev. E)


## MAME

[MAME](#) (standalone) can be used as an alternative emulator for Hikaru games. It supports the full Hikaru ROM set, though emulation accuracy and performance vary per game.

## RetroArch

[RetroArch](#) with the **libretro: MAME** core is also available.

### RetroArch configuration

RetroArch offers a **Quick Menu** accessed by pressing [HOTKEY] +  which can be used to alter various things like [RetroArch and core options](#), and [controller mapping](#).

## Troubleshooting

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

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