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 lr-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`
GAME ASPECT RATIO `hikaru.demulRatio`	Set the game aspect ratio. » Stretch `0`, 4:3 (Default) 1, 16:9 2.
VSYNC `hikaru.demulVSync`	Fix screen tearing. » Off `0`, On 1.

Demul: Compatible ROMs

Demul has a specific list of currently compatible ROMs:

ROM name	Game title
airtrix	Air Trix (Rev. A)
airtrixo	Air Trix (original)
braveff	Brave Firefighters
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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