Gaelco 3D

The Gaelco 3D is an arcade system board created by the Spanish company Gaelco. The PowerVR 2-based variant used similar technology to Sega's NAOMI hardware, featuring two Hitachi SH-4 CPUs and a dedicated NEC PowerVR Series2 GPU. The system produced a small library of driving and sports games between 1999 and 2003.

This system is only available on **x86_64** builds.

Quick reference

- **Emulators:** RetroArch (default), MAME, Demul
- **Cores available:** libretro: MAME (default), MAME (standalone), Demul
- **Folder:** `/userdata/roms/gaelco`
- **Accepted ROM formats:** `.zip`, `.7z`

BIOS

No BIOS files are required.

ROMs

Place your Gaelco ROMs in `/userdata/roms/gaelco`.

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

The emulators are still work in progress for Gaelco 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

RetroArch

RetroArch with the **libretro: MAME** core is the **default emulator** for Gaelco in Batocera.

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.

MAME

MAME (standalone) can be used as an alternative emulator for Gaelco games. It supports the full Gaelco ROM set.

Demul

Demul is a Sega Dreamcast and arcade emulator running under WINE.

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 `gaelco.demulRatio`	Set the game aspect ratio. » Stretch `0`, 4:3 (Default) 1, 16:9 2.
VSYNC `gaelco.demulVSync`	Fix screen tearing. » Off `0`, On 1.
SET GAELCO SCALING AMOUNT `gaelco.demulScaling`	Set the amount of scaling from Gaelco's original resolution. » 1x 1, 2x 2, 3x 3, 4x 4, 5x 5, 6x 6.

Demul: Compatible ROMs

Demul has a specific list of currently compatible ROMs:

ROM name	Game title
atvtrack	ATV Track (set 1)
atvtracka	ATV Track (set 2)
gfootbal	Gaelco Football
smashdrv	Smashing Drive (World)
smashdrvb	Smashing Drive (UK)
smashdrvs	Smashing Drive (Spain, Portugal)

With both MAME and Demul you should be able to play the full collection of games.

Troubleshooting

For further troubleshooting, refer to the generic support pages.

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