

The 5 Preamoast is a sixth-generation console released by Sega on November 27, 1998 in Japan and later on September 9, 1999 in NA. The system is available in most builds, except for RPi1/Zero and 2/ Here's a fun page about it.

This system scrapes metadata for the "dreamcast group and loads the dreamcast set from the currently selected theme, if available.



#### **Quick reference**

• Accepted ROM formats: .cdi, .cue, .gdi, .chd, .m3u

• Folder: /userdata/roms/dreamcast

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## **BIOS**

The "World" BIOS file and USA flash file which should work fine for the massive majority of games.

MD5 checksum	Share file path	Description
e10c53c2f8b90bab96ead2d368858623	bios/dc_boot.bin	Dreamcast BIOS file (World)
0a93f7940c455905bea6e392dfde92a4	bios/dc_flash.bin	Dreamcast system configuration file (USA)

Alternative BIOS files that are also acceptable:

MD5 checksum	Share file path	Description
d407fcf70b56acb84b8c77c93b0e5327	bios/dc_boot.bin	Dreamcast BIOS file (Region free)
d552d8b577faa079e580659cd3517f86	bios/dc_boot.bin	Dreamcast BIOS file (Region free)
93a9766f14159b403178ac77417c6b68	bios/dc_flash.bin	Dreamcast system configuration file (Region free)
74e3f69c2bb92bc1fc5d9a53dcf6ffe2	bios/dc_flash.bin	Dreamcast system configuration file (Region free)
23df18aa53c8b30784cd9a84e061d008	bios/dc_flash.bin	Dreamcast system configuration file (Europe)
69c036adfca4ebea0b0c6fa4acfc8538	bios/dc_flash.bin	Dreamcast system configuration file (Japan)

## ROMs

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Dreamcast discs are a special form of CD named GD, which are capable of holding up to 1GB of data, compared to the ~700MB capacity of regular CDs. GDs were traditionally dumped off of the original console as GD-ROMs (which contains a game.gdi sheet, info.txt and data.bin/.iso/.raw track(s)), but some more modern tools may use the more universal game.cue sheet and data.bin track format. Most emulators can load either sheet format fine. You should load the .gdi or .cue sheet and not the .bin/.iso/.raw tracks. From Batocera v31 onwards, EmulationStation should avoid making duplicate entries for these files.

If you're currently missing the .gdi or .cue files, check out the section on recovering them on this page.



WinCE games seem to not run on the RPi3B+.

#### **Disc compression**

The recommended format for compressing disc images is CHD.

If compressing the image into the CHD format ensure that you are using chdman version 0.230 or later, as earlier versions have issues with Dreamcast images. If your compressed ROMs are failing to launch in Batocera, users have reported having more success making chdman target a .gdi file instead of a .cue file. Most online .bat scripts only target .cue files. There is a custom version of chdman that supports rolling to and from CUE/BIN files here.

## Multi-disc games

To automatically load the next disc of a game, you can use a .m3u playlist file. To make one, simply create a text file with the same filename as your intended game name (it could be anything, really). Within that text file, write the names of the .gdi sheets or .chd files for your game discs. For instance, if your game's .gdi sheets were structured like

```
roms/

dreamcast/

Shenmue (Disc 1).gdi

Shenmue (Disc 1).bin

Shenmue (Disc 2).gdi

Shenmue (Disc 2).bin

Shenmue (Disc 3).gdi

Shenmue (Disc 3).bin

Shenmue (Passport disc).gdi

Shenmue (Passport disc).bin
```

you would put the following as text into the Shenmue.m3u text file:

2024/03/08 20:21 3/11 Sega Dreamcast

#### Shenmue.m3u

```
Shenmue (Disc 1).gdi
Shenmue (Disc 2).gdi
Shenmue (Disc 3).gdi
Shenmue (Passport disc).gdi
```

Save the text file with the file extension .m3u and place it in the dreamcast folder along with the game's discs. When you get to the end of that disc, the next disc will be automatically loaded. In libretro cores, if this fails, you can utilize Retroarch's 'Disc Control' menu in the Quick Menu (Hotkey+ to manually eject a disc and insert another (Swap Disc is for legacy purposes and should not be used). Refer to multi-disc games for more info.

## **Emulators**

#### **Flycast**

Flycast is a fork of Reicast (which itself is a fork of nullDC). A highly compatible and accurate standalone emulator.

Flycast can also be used to run NAOMI arcade games due to being nearly identical hardware.

#### **Flycast configuration**

Standardized features available to all cores of this emulator: dreamcast.videomode, dreamcast.bezel, dreamcast.bezel\_stretch, dreamcast.hud, dreamcast.bezel.tattoo, dreamcast.bezel.tattoo\_corner, dreamcast.bezel.tattoo\_file, dreamcast.bezel.resize\_tattoo

ES setting name batocera.conf_key	Description ⇒ ES option key_value
Settings that apply to all cores of this emulator	
SCREEN RATIO dreamcast.flycast_ratio	Choose which screen ratio you want to use.  ⇒ Default False, Widescreen True.
RENDER RESOLUTION dreamcast.flycast_render_resolution	Choose which internal rendering resolution you want to use.  ⇒ 320×240 (Half) 240, 640×480 (Native) 480, 960×720 (x1.5) 720, 1280×960 (x2) 960, 1600×1200 (x2.5) 1200, 1920×1440 (x3) 1440, 2560×1920 (x4) 1920, 2880×2160 (x4.5) 2160.
GRAPHICS API dreamcast.flycast_renderer	Choose your graphics renderer. ⇒ OpenGL (Default) 0, Vulkan 4.

IFS COTTING NAME NATOCECA CONT. KEV	Description ⇒ ES option key_value
ROTATE SCREEN 90 DEGREES dreamcast.flycast_rotate	Rotate the screen by 90 degrees. ⇒ Normal False, Rotate True.

All other configuration must be done via the flycast-config in the Applications folder ([F1] on the systems screen).

#### **RetroArch**

RetroArch has its own page.

libretro: Flycast

A fork of a fork of a fork... this is an identical version of standalone Flycast but inside of a libretro core. Makes use of RetroArch's features.

#### libretro: Flycast configuration

ES setting name batocera.conf_key	<b>Description</b> ⇒ <b>ES</b> option key_value	
Settings that apply to all systems this core supports		
SYNCHRONOUS RENDERING global.reicast_synchronous_rendering	When threaded rendering is on (on by default), waits for the GPU to finish rendering the frame before dropping the current one. This can avoid certain emulation issues (flashing screens, glitchy video). Significant performance cost. Recommended "Off" for most games as they don't experience issues (or you have a weak machine), "On" if the game has these particular issues.  ⇒ Off disabled, On enabled.	

ES setting name batocera.conf_key	Description ⇒ ES option key_value
RENDERING RESOLUTION global.reicast_internal_resolution	Enhancement. Increases the rendering resolution. Makes 3D objects clearer. Significant performance cost. Use 640×480 for native. Absurdly high values can degrade image quality (pixels beginning to shimmer).  ⇒ 1x (640×480) 640×480, 1.25x (800×600) 800×600, 1.5x (960×720) 960×720, 1.6x (1024×768) 1024×768, 2x (1280×960) 1280×960, 2.25x (1440×1080) 1440×1080, 2.5x (1600×1200) 1600×1200, 3x (1920×1440) 1920×1440, 4x (2560×1920) 2560×1920, 5x (3200×2400) 3200×2400, 6x (3840×2880) 3840×2880, 7x (4480×3360) 4480×3360, 8x (5120×3840) 5120×3840, 9x (5760×4320) 5760×4320, 10x (6400×4800) 6400×4800, 11x (7040×5280) 7040×5280, 12x (7680×5760) 7680×5760.
TARGET COLOR FOR PLAYER 1. global.reicast_lightgun1_crosshair	⇒ Red Red, Blue Blue, Green Green, White White, Disabled disabled.
TARGET COLOR FOR PLAYER 2. global.reicast_lightgun2_crosshair	⇒ Red Red, Blue Blue, Green Green, White White, Disabled disabled.
TARGET COLOR FOR PLAYER 3. global.reicast_lightgun3_crosshair	⇒ Red Red, Blue Blue, Green Green, White White, Disabled disabled.
TARGET COLOR FOR PLAYER 4. global.reicast_lightgun4_crosshair	⇒ Red Red, Blue Blue, Green Green, White White, Disabled disabled.
TEXTURE MIP-MAPPING (BLUR) global.reicast_mipmapping	Enables mip-mapping to smooth out textures on distant 3D objects based on distance and angle. Dreamcast games natively utilized mipmapping to get extra performance out of the hardware, but the extra bluriness from doing this is more apparent on modern, higher fidelity screens. Has a minimal performance cost. enabled should be used in conjunction with anisotropic filtering to mitigate blurriness. Some users may prefer the "sharpness" of disabled better.  ⇒ Off disabled, On enabled.

ES setting name batocera.conf_key	Description ⇒ ES option key_value
ANISOTROPIC FILTERING global.reicast_anisotropic_filtering	Enables anisotropic filtering to enhance perspective textures. Dramatically improves the clarity of textures on distant 3D objects when mip-mapping is turned on, especially at higher internal resolutions. Test Drive: Le Mans is the only Dreamcast game that natively utilizes this. Has a small performance cost. Generally safe to use 16x when mip-mapping is also enabled, leave on "Off" otherwise.  ⇒ Off False, 2x 2, 4x 4, 8x 8, 16x 16.
TEXTURE UPSCALING (XBRZ) global.reicast_texupscale	Enhancement. Applies xBRZ upscaling to textures to improve their clarity. Improvements are subjective.  ⇒ Off False, 2x 2x, 4x 4x, 6x 6x.
FRAMESKIP global.reicast_frame_skipping	Skip frames to improve performance, at the cost of choppy motion. Higher values can cause motion sickness if used for extended periods. Should only be turned up on weak hardware and if immune to motion sickness.  ⇒ Off disabled, 1 1, 2 2, 3 3, 4 4, 5 5, 6 6.
FORCE WINDOWS CE MODE global.reicast_force_wince	Some Dreamcast games (marked "Powered by Microsoft Windows CE" on the box, eg. Sega Rally 2) utilized the MMU Windows Compact Edition API on the Dreamcast to run. Batocera should automatically detect this but in case it doesn't you can manually override it here. Significant performance cost.  ⇒ Off disabled, On enabled.
WIDESCREEN CHEAT (PRIORITY) global.reicast_widescreen_cheats	Enhancement. Flycast has a database of cheats that can enable widescreen support in certain games, rendering them in anamorphic widescreen without changing the internal resolution. Some games also natively support widescreen in their ingame options. A 16/9 ratio must be used and bezels must be disabled.  ⇒ Off disabled, On enabled.
WIDESCREEN HACK global.reicast_widescreen_hack	Enhancement. Changes the internal resolution to a widescreen ratio (eg. 640×480 becomes 853×480). Somewhat glitchy. Some games also natively support widescreen in their in-game options. A 16/9 ratio must be used and bezels must be disabled.  ⇒ Off disabled, On enabled.
CONTROLLER 1 TYPE global.controller1_dc	Chooses the controller plugged into port 1. ⇒ Gamepad 1, Keyboard 3, Mouse 2, Light Gun 4.

ES setting name batocera.conf_key	<b>Description</b> ⇒ <b>ES</b> option key_value
CONTROLLER 2 TYPE global.controller2_dc	Same as above for port 2. ⇒ Gamepad 1, Keyboard 3, Mouse 2, Light Gun 4.
CONTROLLER 3 TYPE global.controller3_dc	Same as above for port 3.  ⇒ Gamepad 1, Keyboard 3, Mouse 2, Light Gun 4.
CONTROLLER 4 TYPE global.controller4_dc	Same as above for port 4. ⇒ Gamepad 1, Keyboard 3, Mouse 2, Light Gun 4.

All other settings can be configured from RetroArch's **Quick Menu**  $\rightarrow$  **Options** ([H0TKEY] +  $\textcircled{\bullet}$ ).

#### Redream



Redream has been removed from Batocera v36 and up on Wayland devices due to not supporting Wayland.

Redream is a multi-platform standalone emulator. Has high compatibility with low system requirements. Lacks some options compared to Flycast.



You cannot exit Redream via controller as the Hotkey+Start shortcut opens the Redream menu instead and you cannot navigate to the close button unless you have a mouse.

#### **Redream configuration**

Standardized features available to all cores of this emulator: dreamcast.videomode, dreamcast.bezel, dreamcast.bezel stretch, dreamcast.hud, dreamcast.bezel.tattoo, dreamcast.bezel.tattoo corner, dreamcast.bezel.tattoo file, dreamcast.bezel.resize tattoo

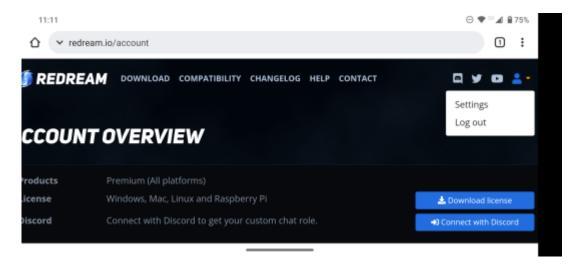
ES setting name batocera.conf_key	Description ⇒ ES option key_value	
Settings that apply to all cores of this emulator		
RENDERING RESOLUTION dreamcast.redreamResolution	Choose your render resolution (Requires personal redream.key file). $\Rightarrow$ 1x (640×480) 1, 2x (1280×960) (Default) 2, 3x (1920×1440) 3, 4x (2560×1920) 4, 5x (3200×2400) 5, 6x (3840×2880) 6.	
ASPECT RATIO dreamcast.redreamRatio	Choose your preferred aspect ratio.  ⇒ 4:3 (Default) 4:3, 16:9 16:9, Stretch stretch.	
FRAMESKIP dreamcast.redreamFrameSkip	Enable auto frameskipping for performance on lower-end systems.  ⇒ Off (Default) 0, On 1.	

ES setting name batocera.conf_key	Description ⇒ ES option key_value
VSYNC dreamcast.redreamVsync	Enable vertical sync to avoid tearing in some cases.  ⇒ Off (Default) 0, On 1.
POLYGON SORT ACCURACY dreamcast.redreamPolygon	Choose the amount of polygon sort accuracy (Higher may cause artifacts).  ⇒ Per-strip (Default) 0, Per-pixel (32 layers) 32, Per-pixel (64 layers) 64.
REGION dreamcast.redreamRegion	Choose the Dreamcast console region.  ⇒ USA (Default) usa, Europe europe, Japan japan.
LANGUAGE dreamcast.redreamLanguage	Choose the Dreamcast console language.  ⇒ English (Default) english, German german, French french, Spanish spanish, Italian italian, Japanese japanese.
BROADCAST dreamcast.redreamBroadcast	Choose broadcast standard (for older TV's). ⇒ NTSC (Default) ntsc, PAL pal, PAL_M pal_m, PAL_N pal_n.
CABLE dreamcast.redreamCable	Choose cable type for the TV. ⇒ VGA (Default) vga, RGB rgb, Composite composite.

Redream can also be configured from its redream-config application ([F1] on the system list  $\rightarrow$  **Applications**).

#### Redream license key

On PC, Redream locks some of settings behind a one-time purchase of a premium license. Once purchased, this can be downloaded (it's just a text file) from https://redream.io/account after signing in:



Redream checks for its license key in /userdata/system/configs/redream/redream.key. If a valid license is found, additional rendering options (such as rendering resolution) will become unlocked.



This license is not required for ARM devices such as RPi.

## **Texture packs**

Flycast supports custom texture packs for games. To use them:

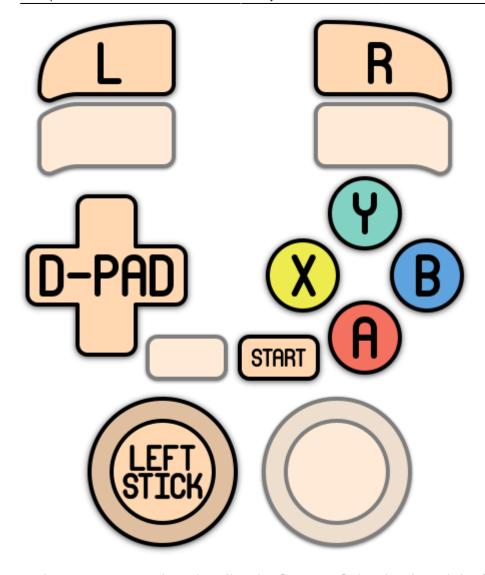
- 1. Copy the unzipped texture pack folder to saves/dreamcast/flycast/textures/ (it should already be titled the proper game ID for the game that it supports)
- 2. In Batocera, launch flycast-config from the file manager → Applications
- 3. Navigate to **Settings** → **Video** and tick "Load Custom Textures"



4. Exit with [Alt] + [F4] and then launch the game from Batocera

### **Controls**

Here are the default Sega Dreamcast's controls shown on a Batocera Retropad:



Each Dreamcast emulator handles the [HOTKEY], its chords and the [SELECT] button differently.

- libretro/flycast
  - [H0TKEY] by itself does nothing.
  - [HOTKEY] + [START] closes the emulator.
  - [SELECT] does nothing.
- Flycast standalone
  - [HOTKEY] by itself opens Flycast's quick menu.
  - [HOTKEY] + [START] closes the emulator.
  - [SELECT] does nothing.
- Redream
  - [HOTKEY] by itself opens Redream's menu.
  - [H0TKEY] + [START] does nothing.
  - [SELECT] toggles fast-forward.



The [H0TKEY] + [L1] shortcut, which ordinarily takes a screenshot, will instead eject the disc in libretro/Flycast. Practice caution!

# **Troubleshooting**

For further troubleshooting, refer to the generic support pages.

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