Cannonball

Cannonball is a complete rewrite of Sega Out Run arcade racer, features several enhancements to the original game: higher frame rate at 60 FPS, higher resolution sprite scaling, wide screen support, new game modes and so on.

Cannonball and all its features have been integrated into Batocera, if you choose to use it.

Most users will be fine with the arcade and console versions of OutRun, so by default, Cannonball is disabled.

To enable it, go to /userdata/roms/cannonball/ or \SHARE\roms\cannonball\ from the SMB network and rename the file Cannonball.cannonball.disabled into Cannonball.cannonball.

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

Grouped with the “ports” group of systems.

Quick reference

- **Emulator**: Cannonball
- **Folder**: /userdata/roms/cannonball
- **Accepted ROM formats**: .cannonball

**BIOS**

No Cannonball emulator in Batocera needs a BIOS file to run.

**ROMs**

Place your Cannonball ROMs in /userdata/roms/cannonball.

Add MAME’s “OutRun rev. B” ROMs (epr-10187.88, epr-10327a.76, etc.) in this directory and rename Cannonball.cannonball.disabled to Cannonball.cannonball.
Cannonball requires the original Outrun ROM Revision B files to play the game. Contrary to MAME or FBNeo, you need to unzip the ROM files in the `roms/cannonball/` folder. The list of ROM files required is available from this link on Cannonball's Github.

Several ROM zip files can be used to extract the OutRun data files. Make sure yours is one of following (using the command `md5sum outrun.zip` or `md5sum cannonball.zip`):

<table>
<thead>
<tr>
<th>md5 hash</th>
<th>File name</th>
</tr>
</thead>
<tbody>
<tr>
<td>fe803998a14837227be83d0f30f29a23</td>
<td>outrun.zip</td>
</tr>
<tr>
<td>dbf3c379a3664d9c920cada5dc4cdc23</td>
<td>outrun.zip</td>
</tr>
<tr>
<td>a7060972e1cb854c111a435cc965cf29</td>
<td>cannonball.zip</td>
</tr>
</tbody>
</table>

### Emulators

**Cannonball**

**Cannonball configuration**

Standardized features available to all cores of this emulator: `cannonball.videomode`, `cannonball.ratio`

<table>
<thead>
<tr>
<th>ES setting name batocera.conf_key</th>
<th>Description ⇒ ES option key_value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH RESOLUTION cannonball.highResolution</td>
<td>Increases the video resolution to Hi Resolution ⇒ Off 0, On 1.</td>
</tr>
</tbody>
</table>

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

![Cannonball controls on Batocera Retropad](image-url)

### Troubleshooting

**Further troubleshooting**

For further troubleshooting, refer to the generic support pages.