Hardware - System Control Mode

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Version 1

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8BitCADE Audio Control - mute and unmute

Pressing and **holding** the **B button** when powering on will enter **System Control mode**. The LED will light blue to indicate that you are in *system control* mode. You must continue to hold the *B* button to remain in this mode.

Pressing the **UP button** (while still **holding B**) will set a flag in system EEPROM (memory on the Pro Micro Chip) indicating *audio enabled* (**turn audio on**). The LED will flash green once to indicate this action.

Pressing the **DOWN button** (while still **holding B**) will set the flag to *audio disabled* (muted). The LED will flash red once to indicate this action.

Releasing the **B button** will exit system control mode and the sketch will continue.

Note that the audio control feature only sets a flag in EEPROM. Whatever code actually produces the sound must use the *audio.enabled()* function in the game sketch. Audio libraries written with the Arduboy system (library files) in mind by using

ArduboyPlaytune and ArduboyTones, should do this. However, be aware that for some sketches, which don't use the <u>Arduboy2</u> or other compliant library and generate sounds in their own way, this method of muting sound may not work.

"Flashlight" mode

If the **UP button** is pressed and held when the 8BitCADE is **powered on**, it enters *flashlight* mode. This turns the red, green and blue LED fully on, and all the pixels of the screen are lit, resulting in a bright white light suitable as a small flashlight. To exit *flashlight* mode, the 8BitCADE must be restarted by pressing the reset button

Flashlight mode is also sometimes useful to allow uploading of new sketches, in case the sketch currently loaded uses a large amount of RAM which creates a bootloader problem. So if you are trying to load a new game onto your 8BitCADE and the USB port is not showing as available, go into flashlight mode and try and upload your sketch again.



