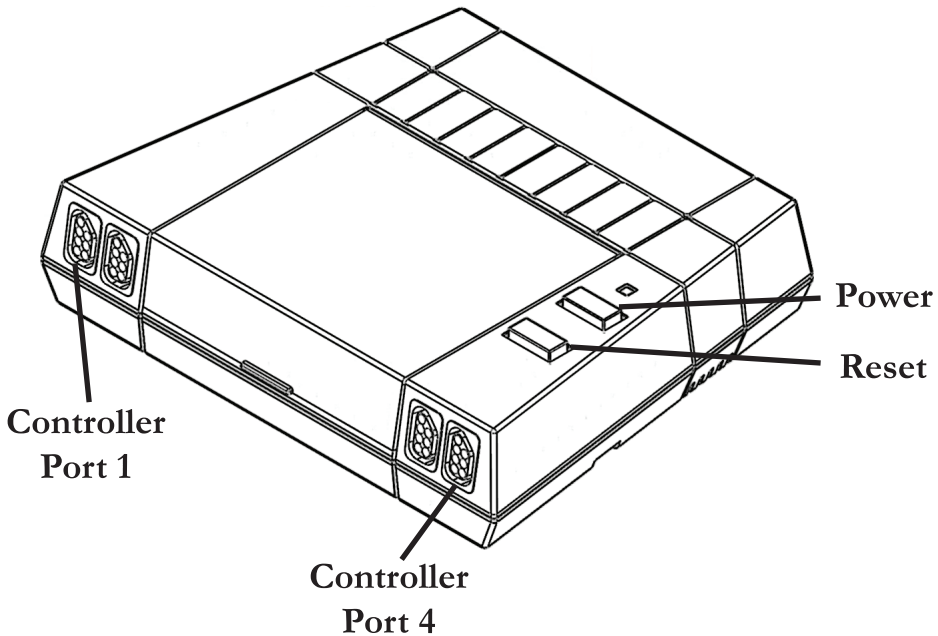
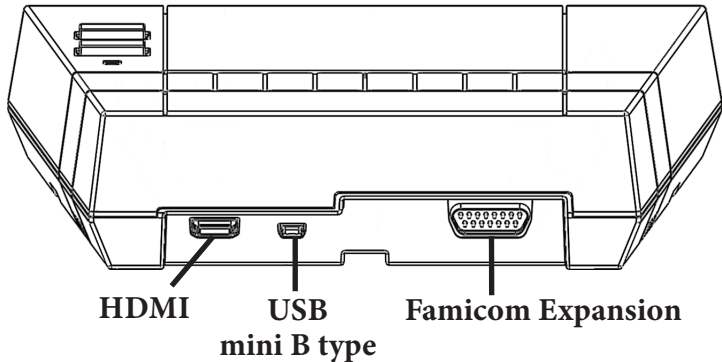




Connections





Power information -The AVS includes a 5VDC 1A power supply. AC adapters rated 500mA may work, but some cartridges (such a flash carts) need more power. USB ports on a computer or powered hub will supply enough power. Many TVs also have powered USB ports!

The included USB cable is 28/24AWG. Cables that are only 28AWG (thinner) may work but might make high power carts fail. The higher power cables are usually labeled as charging or power cable. **“Data only” cables sometimes have wires that are too small to provide enough power.**

AVS Main Menu

From the AVS main menu you can **Start Cart**, change **Input Options** or **Video Options**, or enter **Cheats**.

- Use Left or Right to scroll between the options, press A to select.
- Inside a menu screen use Up and Down buttons to choose an option.
- Press A or use Left/Right to change or select settings.
- Press B to exit and return to the main AVS menu. Settings are automatically saved

Start Cart

Start Cart – Press A to start your cart. The icon changes to a full cart image when a cart is detected. A dotted cart outline icon means no cart is inserted or detected.

Input Options

Menu Buttons – You can reset your game and return to the AVS main menu by pressing a button combination. The default is A + B + Select. You can set this combination to anything you choose or set it to no buttons to disable the option.

Input Options (continued)

Cheat buttons – Similar to the menu button setting, this button combination will enable or disable cheats (see cheat code section) while playing a game. Default setting is A + B + Start. Setting it to no buttons will disable the option. Cheat Codes will always start on. **Pressing the button combination while in game will flash the screen red (codes off) or green (codes on).** The screen will flash regardless of cheats be entered or not.

Expansion Emu – This option translates USA peripherals into the JP expansion equivalent. Your USA Vaus controller will work on games like Arkanoid 2, and the built in Four Score will work on the Famicom version of Super Dodge Ball. If you are using the Famicom Expansion port this option should be turned off

Turbo – Set the slider to adjust turbo for the A and B buttons. Works with original gamepads that never had turbo. Some peripherals like the Power Glove will need this off.

Auto Play –The cart starts automatically when the console is turned on. You can still use the Menu Buttons to get back to the menu system (must have menu buttons enabled!).

Video Options

Video Mode – Choose NTSC (60Hz) or PAL (50Hz). The video mode is tied directly to the AVS CPU speed. Playing a game with the console set to the incorrect region will have varying effects. Some games will run at the incorrect speed, may have graphical glitches or simply crash. **If your console is set to 50Hz and your TV does not support 50Hz, you will not be shown any picture once the game boots.**

Pixel Aspect – Set the shape of each AVS pixel. No filters or blurring is used, every pixel will always be outputted with sharp edges. This does not change the 720p resolution. Your TV may also have separate settings for stretching and filters.

Vert Border – Adds a border to the top and bottom of the screen. Use the slider to adjust the size of the border.

Scanlines – Nostalgic for CRT? Turn scanlines on and use the slider to adjust the darkness you think looks best.

Video Options (continued)

Left side – Hiding improves appearance when a game hides the left column of background tiles. The effect is best shown in the blue left column in Super Mario Bros 3.

Extra Sprites – The NES has a limit of 8 sprites per scanline. This option increases that limit to 15, making some games flicker less. **Some games rely on the 8 sprites limit and will need this option off.**

Exp Volume – The slider sets the relative volume for the expansion audio input from NES and Famicom carts. Carts with no expansion audio will not be affected.

Palette – Change the color palette of your games. You can also upload custom color palettes using the AVS Updater (see website for info on custom color palettes).

Interpolation – Some TV sets will give off a shimmer effect on scrolling screens. Turn this option on to help reduce or eliminate that effect. What you see greatly depends on your TV.

Cheats

The AVS includes a built-in code database for many USA released titles or you can enter in your own codes.

Built-in code Database - Carts are automatically detected and a list of popular codes is displayed. If there is no game and/or codes displayed, the game does not have any codes in the database. Use Up/Down to pick a code, then press A to enter it into the first open slot. If there are no open slots the last code slot will be replaced.

Manual code entry – The AVS supports Game Genie, Pro Action Replay, Pro Action Rocky, and raw formatted codes in both 6 and 8 character formats.

Use Up/Down to pick a code line and press A to start code entry. Use Left/Right to pick a character and press A to confirm selection. Press B button to delete one character or cancel out of the line. When you are finished entering the line use Up/Down to confirm the code and optionally enter more codes. Valid codes will be marked with a smiley face. Codes with a sad face are invalid and will be removed when the game starts. A “valid” code does not mean its a working game code.

Updating the AVS

Updates to the FPGA and menu system are occasionally released to increase compatibility or add features. To update your AVS console download the AVS Updater application and firmware file from the website and follow this process:

1. Connect the AVS to your Windows or Mac computer using the USB cable
2. Turn on the AVS
3. Run AVS Updater application on your computer
4. Go to Transfer > Upgrade Firmware and choose configuration file
5. Wait a few moments for the update to complete

If the update process is interrupted part way through for any reason you can safely start again from the beginning. Simply power off your console, close the app, and start the process over.

*If the power light is blinking, no configuration was loaded and the update process should be started from the beginning.

Other Important Information

Reset console to default settings

To reset your console to default settings have a controller plugged into port # 2. With the console off hold A + B + Start + Select + Up on the controller plugged into port #2. Keep the buttons held and power on the console. Keep holding the buttons until you see the AVS main screen. All settings will now be set to default.

Reset your PowerPak without getting up!

Playing on a PowerPak and want to change games? Simply exit to the AVS menu, then hold B while pressing A to “Start Cart”. Keep holding B until you see the PowerPak main screen!



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