



Picade Console

- PIM407

Power-up your TV with Picade Console! It's a compact, Raspberry Pi-powered retro games machine with authentic arcade controls that plugs right into your TV, monitor, or other HDMI display.

Picade Console is fight stick-style arcade console that riffs off our new [Picade](#) with the same retro feel, same joystick and buttons, dedicated power button, and driven by the same powerful combo of the Raspberry Pi and Picade X HAT. It's beautifully packaged, comes with stickers and a neon-infused A3 Picade Console poster, and full assembly instructions.

It comes in kit form and takes an hour or two to build. The enclosure is made from powder-coated MDF and acrylic, giving it an authentic arcade look and feel. All you'll need to add is a [Raspberry Pi](#), [power supply](#), [HDMI cable](#), and [micro-SD card](#).

**TV not included! Using a CRT TV requires additional adaptors.*

Features

- Black, powder-coated panels
- Acrylic console with retro artwork
- Push-fit arcade buttons
- Joystick with black ball top
- Speaker (3W, 4Ω, 2.5" driver)
- Easy access with removable back panel
- Dedicated illuminated power button
- Grippy rubber feet
- Dimensions (assembled): 245x120x140mm

Picade X HAT features

- Easy DuPont connectors for buttons and joystick
- Push-fit speaker terminals
- I2S audio DAC with 3W amplifier (mono)
- Power management, power switch pins, and power button
- 4-way joystick inputs
- 6 player buttons
- 4 utility buttons
- Metal standoffs to hold your Picade X HAT securely

Extras

- Picade Console poster / assembly instructions
- Picade stickers

What's new!?

Picade Console is more compact and easier to build, but has a bunch of new features liked a dedicated power button, better cable routing out the back of the console with a panel-mount micro-USB connector for power, and slick new artwork.

The new buttons in Picade are lower profile, and the new joystick has a single connector rather than the eight spade connectors on our previous Picade joystick.

Picade X HAT is all-new and packed full of useful features. We've moved from more fiddly screw terminals to simple DuPont connectors that just push in, and the speaker terminals are the same easy push-fit connectors that we use on pHAT BEAT.

There's dedicated power management on-board Picade X HAT; just plug your micro-USB power supply into the HAT and it'll power your Pi through its pins. The power button connected to the HAT means that once your Pi is safely shutdown, the power will be cut completely to the Pi. A simple press of the power button will boot your Picade Console up again.

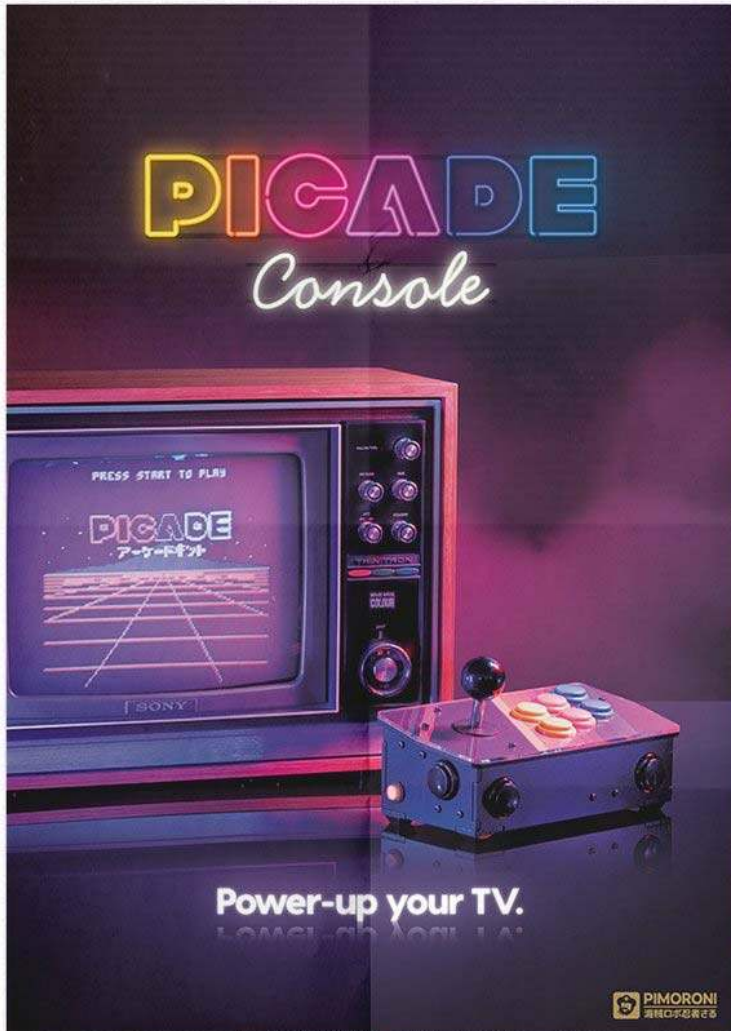
Software setup

We recommend the [RetroPie](#) operating system for your Picade. You can [download it from the RetroPie website](#) and then burn it to a micro-SD card with [Etcher](#).

Connect a USB keyboard to your Pi, and connect to Wi-Fi in the RetroPie menu. Press F4 to exit to the terminal and then type `curl https://get.pimoroni.com/picadehat | bash` to run the Picade HAT installer.

Reboot your Pi, if it doesn't prompt you to. Press the "Alt" key on your keyboard and then select "Configure input" to configure your Picade Console's controls. You'll find that the sound and power button should both be working now too!





PICADE Console

Power-up your TV.



Loosen the screws on the inside of the console. Insert the metal stand, sliding through the large hole in the console. Mount the joystick using two M3 bolts and nuts. Put the dust cover on and screw the ball top onto the joystick, using a thin board

while plastic spacers on top of each. Then plastic pad (P1) at the bottom, with the USB ports facing down. In and the LCD port facing the back. Screw the four metal standoffs onto the screws, securing your TV.

Building Your Picade Console

5. Wiring the player buttons

Next, trim one of the sets of twelve wires, and separate the strands if they're at pairs at the end with the spacers. Working from one side of the cable, connect each pair of spacers to buttons 1 to 8 (marked on the underside of the console). Take the top pair of pairs of the other end and connect them to the terminals marked BUT1-8 (from 1 left, counter-clockwise).

and the back to -. Connect the pins at the other end to the terminals marked L23, with the red one at the side marked +.

The speaker wires push into the terminals marked SPE1 (red) and SPE2 (black) like a pin or pencil tip to gently press the clips on the speaker terminals as you push the wires firmly in.

7. Attaching the console

Before attaching the console, plug the micro-USB end of the panel-mount micro-USB socket into the connector on the Picade X HAT. It's important that you plug it into the HAT, not into the Pi back, as the HAT handles power management.

Set the console in the casing, with the joystick closest to the side of the casing with the power button in, and allow each pair of M3 bolts and nuts. Begin in from the rear of the console, to hold the nuts in place while you tighten the bolts.



Take the other set of twelve wires, and slice off one pair of wires. Leave only three pairs. Again, separate the strands in one pair of the end with the spacers. Taking each pair in turn, connect them to the GND, DAC1-8, COM1 and power button respectively. On the power button, connect the speaker connectors to the pair of spacers closest to the edge of the button. Take the pair at the other end and connect them to the terminals marked ONE, TWO, DA, COM1 and ON respectively.



Feel the backing off the rubber feet and stick them in the underside, in the four corners.

6. Wiring the power button and speaker



8. Mounting the panel-mount micro-USB socket

Unscrew the two screws from the panel-mount end of the cable and use them to push the socket to the back panel of your console. This may require a little force, perhaps by boosting the top set of tabs in the slots in the console top, and then flexing the bottom of the console slightly to allow the bottom set of tabs to pop in.

9. Getting up and running

Connect an HDMI cable from the back of your Picade Console to your TV or monitor, and plug a micro-USB power supply into the power mount socket.

We recommend the RetroPie operating system. Download it from <https://retropie.org.uk/download/>, and burn it to a micro-SD card.

Plug a USB keyboard into your Picade.



Plug the micro-SD card into the slot on the Pi. Plug the stick on the underside of the console, and press the power button. Your Picade Console will boot up.

Connect to Wi-Fi in the RetroPie menu under "CONFIGURE WiFi". To run the Picade HAT installer, which will set up the joystick and buttons, the audio and the power button, use the installer GUI by pressing F4 on your keyboard, and type the following:

"curl https://get.pimoroni.com/products/boards"

Press "Enter". Then follow the instructions on screen.

FWM: FWFM FWFM Your Picade Console is now set up and ready to go!