

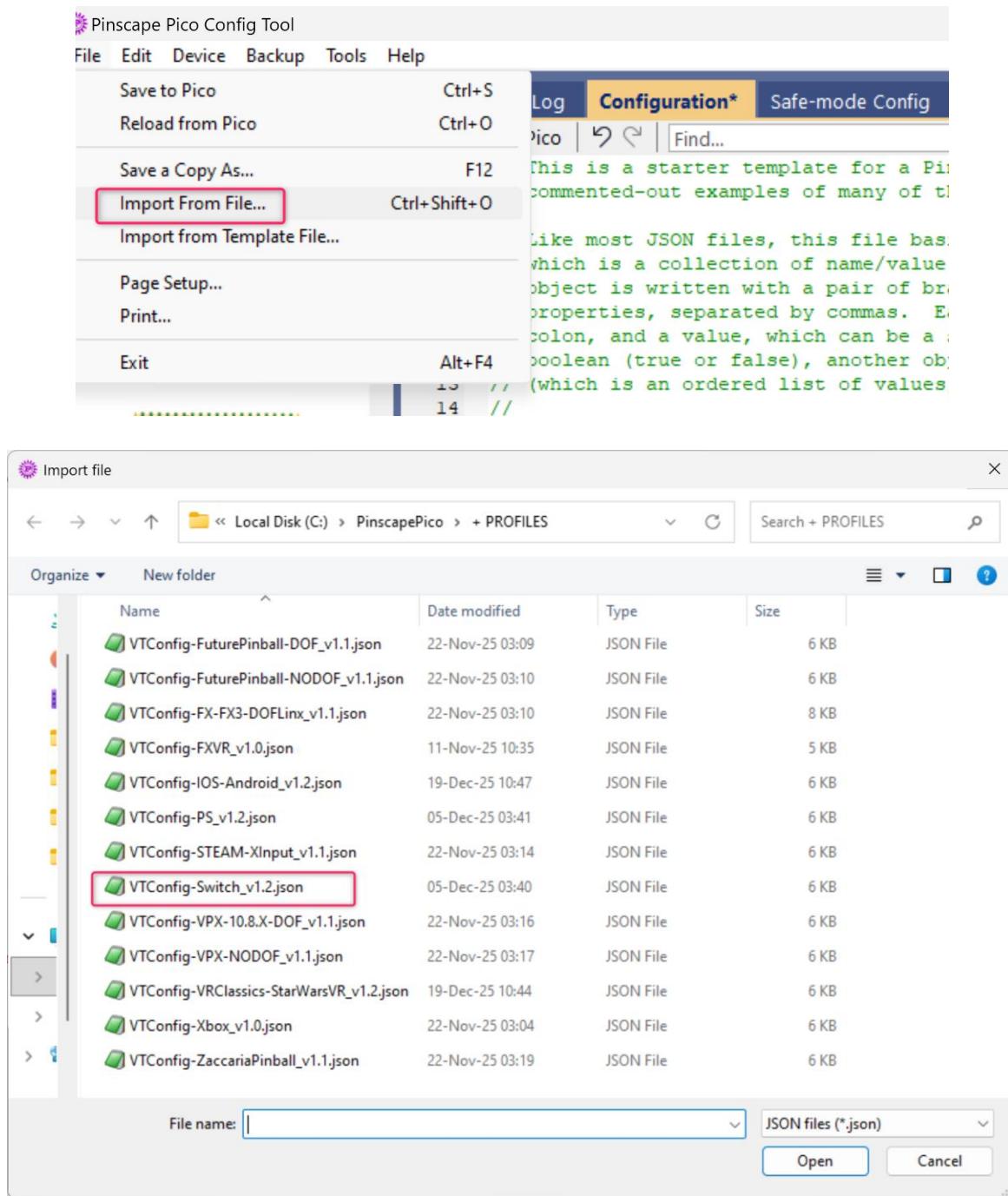
VIRTUATILT – Switch SETUP GUIDE

Following some basic instructions to set up your new VirtuaTilt for Switch systems.

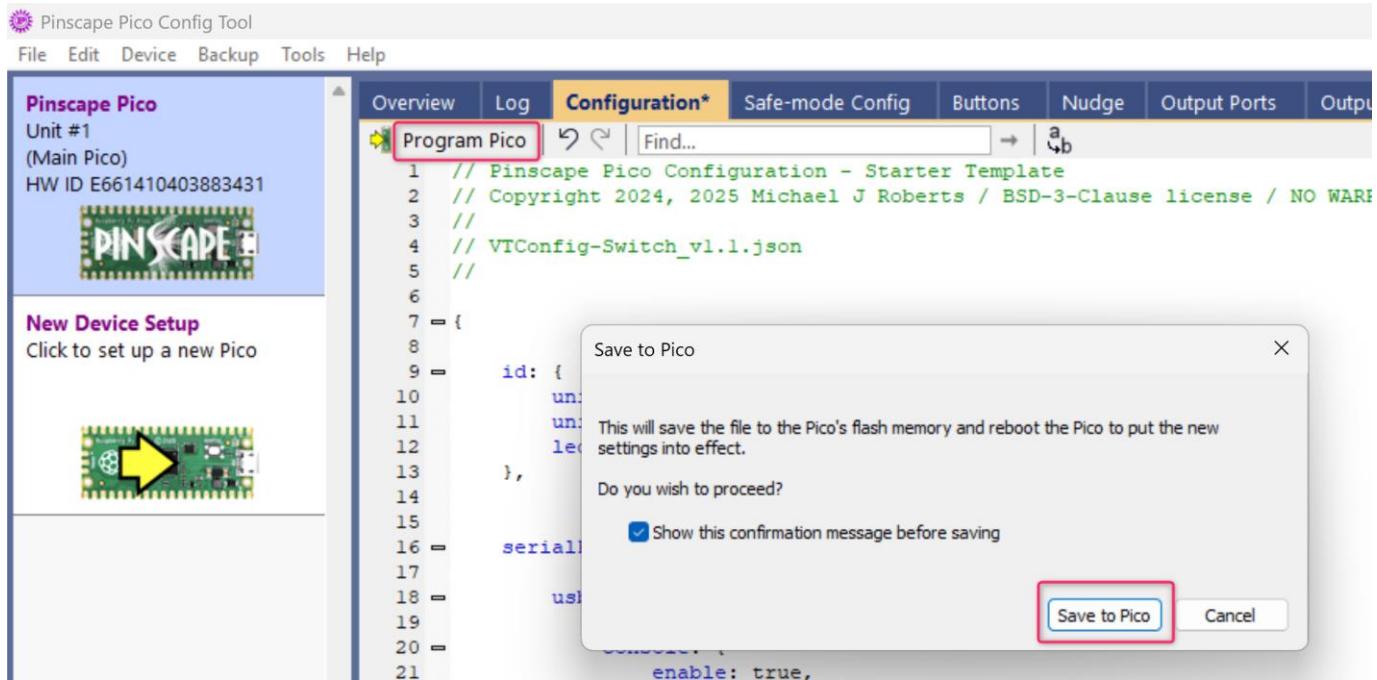
IMPORTANT NOTE: You need a proper USB dongle (not provided and not supported) to make VirtuaTilt compatible with above devices. If you connect directly, it won't be recognized as a controller.

Load Profile

Load **VTConfig-Switch_v1.X.json** profile in **Pinscape Pico Config Tool**:



Click on “Program Pico” to save new configuration:



NOTE: Once this profile is loaded, Pico will go offline because the Windows X-Input device driver now is claiming exclusive access to the device, preventing anyone from seeing its other USB interfaces:

Pinscape Pico
Unit #1 OFFLINE
(Pinscape)
HW ID E6614C311B5E0622

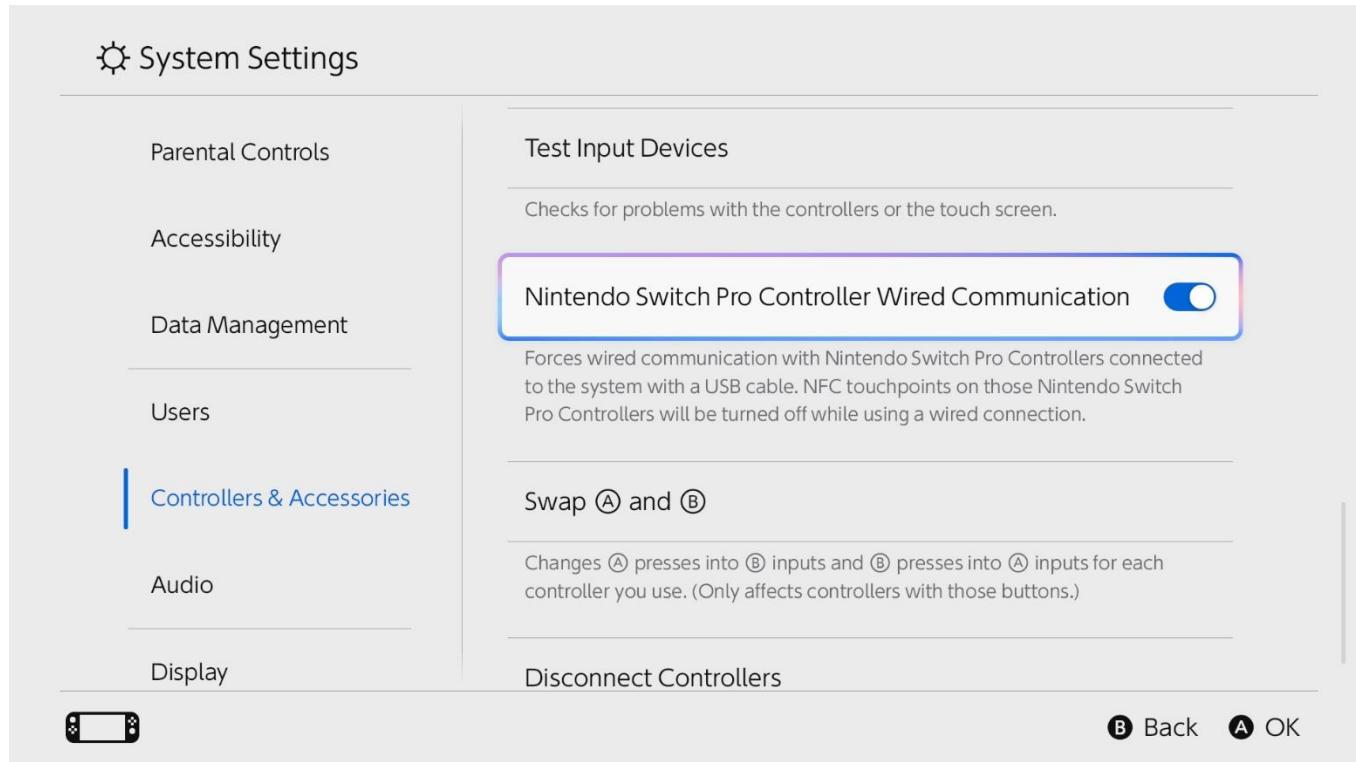
New Device Setup
Click to set up a new Pico

Device Manager

- File Action View Help
- < > | [] | [] | [] | [] | []
- > System devices
- > Universal Serial Bus controllers
- > USB Connector Managers
- > Xbox 360 Peripherals
- Xbox 360 Controller for Windows

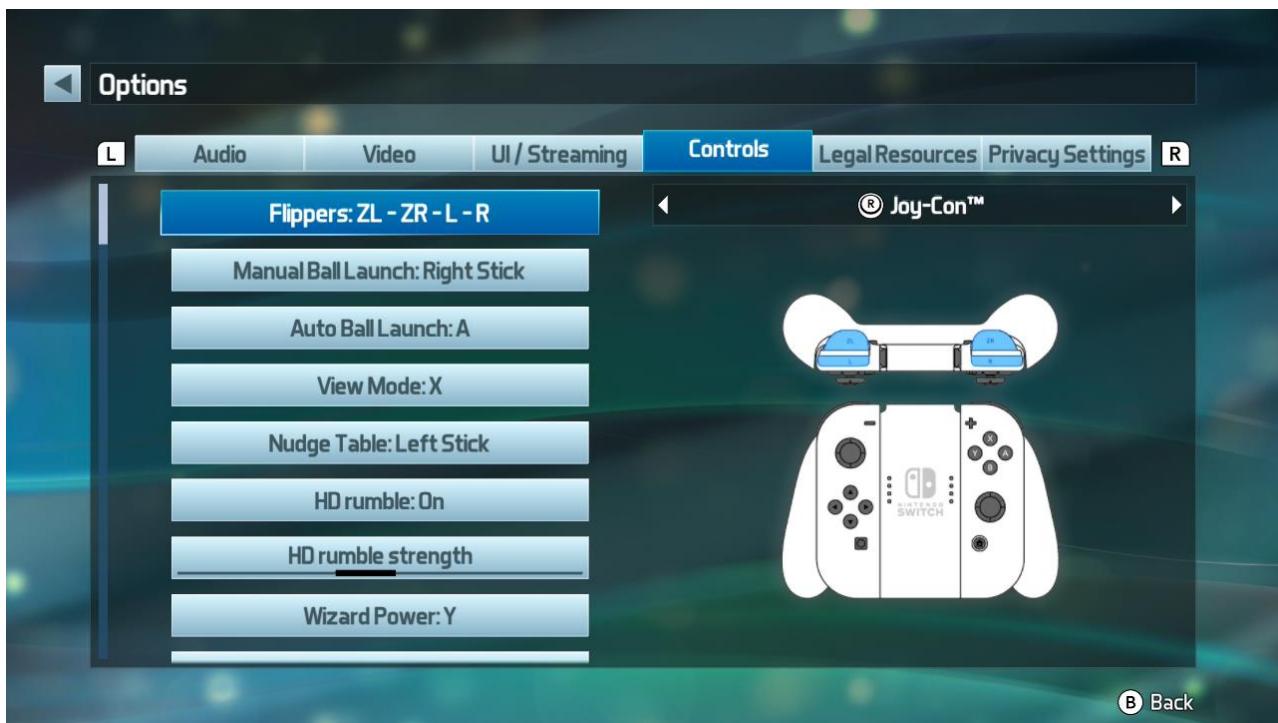
System/Games Settings

Select the following option in **System Settings → Controllers & Accessories**:

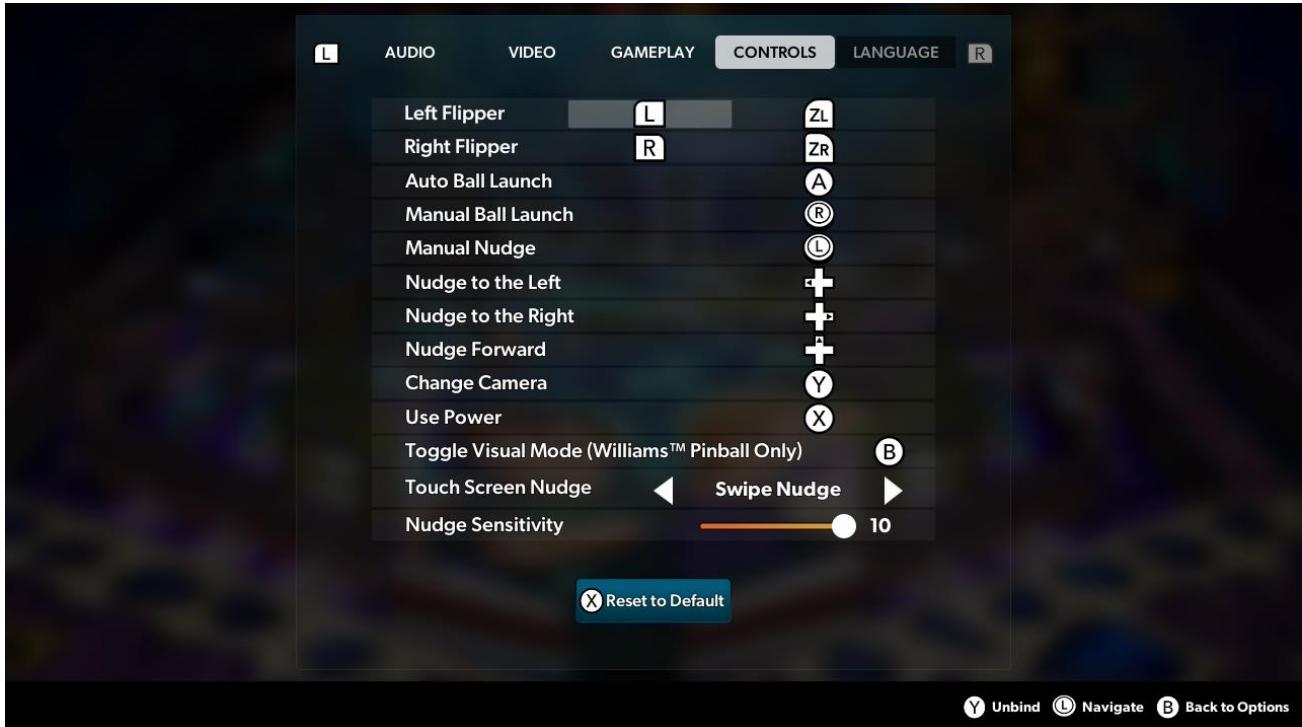


The screenshot shows the 'System Settings' menu. On the left, there is a vertical list of options: Parental Controls, Accessibility, Data Management, Users, **Controllers & Accessories**, Audio, and Display. The 'Controllers & Accessories' option is highlighted with a blue border. On the right, under 'Test Input Devices', there is a section titled 'Nintendo Switch Pro Controller Wired Communication' with a blue toggle switch set to 'On'. Below it, a note states: 'Forces wired communication with Nintendo Switch Pro Controllers connected to the system with a USB cable. NFC touchpoints on those Nintendo Switch Pro Controllers will be turned off while using a wired connection.' At the bottom right, there are buttons for 'B Back' and 'A OK'.

PinballFX 3 settings:



PinballFX settings:



Pinball M settings:



The Pinball Arcade settings:



3DPTronics

Restore Profile

VirtuaTilt RP2040 – Switch Setup Guide v1.2

To load/restore a different profile keep **VirtuaTilt's Reset button** pressed for 2 seconds; device will reboot in **Factory mode**:

The screenshot shows the Pinscape Pico Config Tool interface. The left sidebar has sections for 'Pinscape Pico' (Unit #1, HW ID E6614C311B5E0622), 'New Device Setup' (Click to set up a new Pico), and a small image of a Raspberry Pi Pico board with a yellow arrow pointing to it. The main area has tabs for 'Overview' (selected), 'Log', 'Configuration', 'Safe-mode Config', 'Buttons', 'Nudge', 'Output Ports', 'Output Hardware', 'Plunger', and 'IR & TV ON'. The 'Overview' tab displays device information: Pinscape Unit #1, Pinscape, Virtual LedWiz ID 1, Pinscape firmware version 1.0.0, build 202510231210, Target board: Pico, Hardware ID: E6614C311B5E0622, CPU: RP2040, Version: 2, ROM: 3 (RP2040-B2), Build environment: Pico SDK 2.2.0, TinyUSB 0.18.0, GNUC 14.3.1. It also shows 'Uptime' (Time since Pico reset: 84,454,446 us (1:24 minutes)), 'USB Interfaces' (USB device identification: VID 1209, PID EAEB, Pinscape Vendor Interface: Configured (always present), Pinscape Feedback Controller: Configured, LedWiz Protocol Emulation: Not Configured, Virtual COM port (CDC): Not Configured, Keyboard: Not Configured, Gamepad: Not Configured, Xbox Controller: Not Configured, Open Pinball Device: Not Configured), 'Recent main loop counters' (Iterations (recent rolling window): 90,888, Avg main loop time: 22 us, Max main loop time: 731 us), 'Recent secondary core loop counters' (Iterations (recent rolling window): 1,175,561, Avg main loop time: 1 us, Max main loop time: 12 us), and 'Memory' (Heap memory size: 209,560 bytes, Heap unused: 184,320 bytes, Malloc arena size: 25,240, Arena in use: 22,120, Arena unused: 3,120, Total free memory: 187,440). To the right is a detailed diagram of the Raspberry Pi Pico board, showing all pins numbered 1 through 40 and their corresponding functions: VBUS, VSYS, GND, 3V3_EN, 3V3_OUT, ADCVREF, GP28, GP27, GP26, GP25, GP24, GP23, GP22, GP21, GP20, GP19, GP18, GP17, GP16, GP15, GP14, GP13, GP12, GP11, GP10, GP9, GP8, GP7, GP6, GP5, GP4, GP3, GP2, GP1, GP0, and GND.

Go to **Configuration** → **File** → **Import From File** and choose the profile you need:

The screenshot shows the 'File' menu of the Pinscape Pico Config Tool. The menu items are: File (highlighted in yellow), Edit, Device, Backup, Tools, and Help. Under 'File', there are several options: 'Save to Pico' (Ctrl+S), 'Reload from Pico' (Ctrl+O), 'Save a Copy As...' (F12), 'Import From File...' (Ctrl+Shift+O, highlighted with a red box), 'Import from Template File...', 'Page Setup...', 'Print...', and 'Exit' (Alt+F4). To the right of the menu, the main window has tabs for 'Log', 'Configuration' (highlighted in blue), and 'Safe-m'. There is also a search bar labeled 'Find...'.

Click on "**Program Pico**" to save new configuration and you're done:

 Pinscape Pico Config Tool

File Edit Device Backup Tools Help

Pinscape Pico

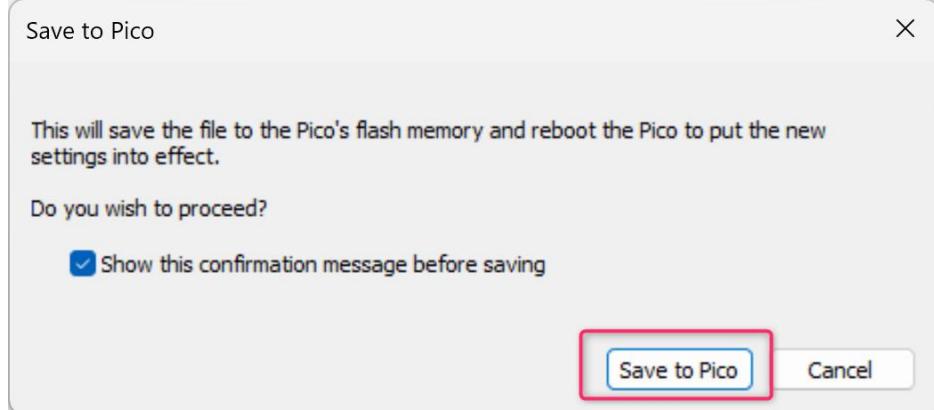
Unit #1
(Main Pico)
HW ID E6614C311B34A828



New Device Setup
Click to set up a new Pico

Configuration*

```
1 // Pinscape Pico Configuration - Starter Template
2 // Copyright 2024, 2025 Michael J Roberts / BSD-3-Clause licen
3 //
4 // VTConfig-IOS-Android_v1.0.json
5 //
6
7 = {
8
9 =     id: {
10         unitNum: 1.
```



That's it, enjoy!

Default Buttons Mapping

This is the default buttons mapping for Switch profile. You can of course change assignments in Pinscape Pico Config Tool.

