

User Manual

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Project Website: <https://flybywireless.github.io>

I. Setup Instruction

Step 1: Download the iOS app



Step 2: Download & Install vJoy Device Driver

[Download vJoy Device Driver for Windows \(x64\)](#)

Make sure you select the **vJoy Configuration application** when installer prompt you to select components. Other companion applications are not required by FBW.

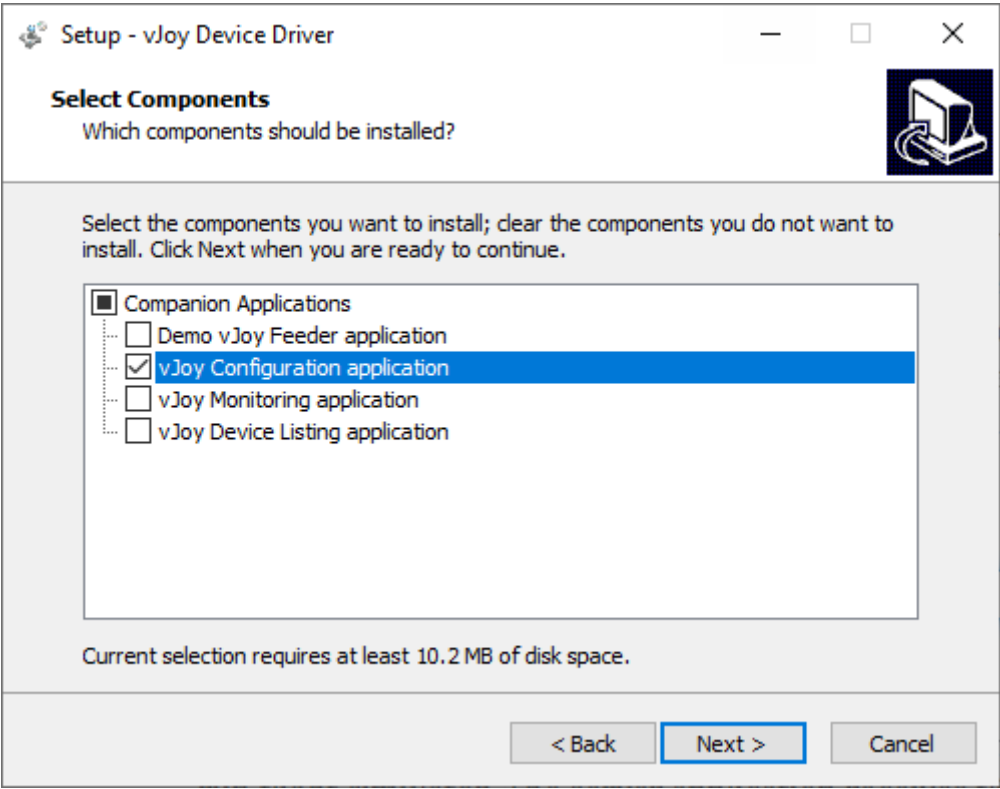


Figure 1. vJoy Installer - Select Components

Step 3: Download & Install FBW Server

[Download FBW Server \(V1.1\) for Windows \(x64\)](#)

Step 4: Configure vJoy Device

Use **Configure vJoy** application installed in Step 2 to configure vJoy Device. Make sure to enable X/Y/Z/Slider Axes, set Number of Buttons to **at least 10**, and configure **exactly one 4 Directions** POV Hat Switch, as shown in the figure below.

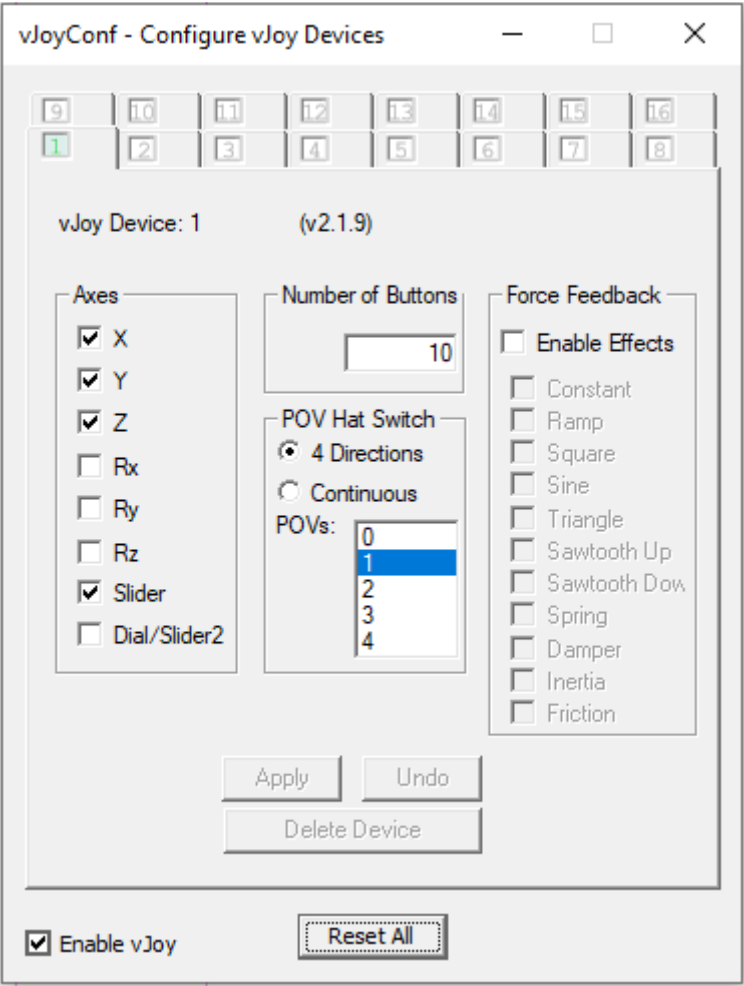


Figure 2. Example of vJoy Configuration

Step 5: Bind Controls

Bind control input to game events just like what you would do with a physical joystick device. Examples are provided in Section III.



Figure 3. Example Microsoft Flight Simulator Configuration

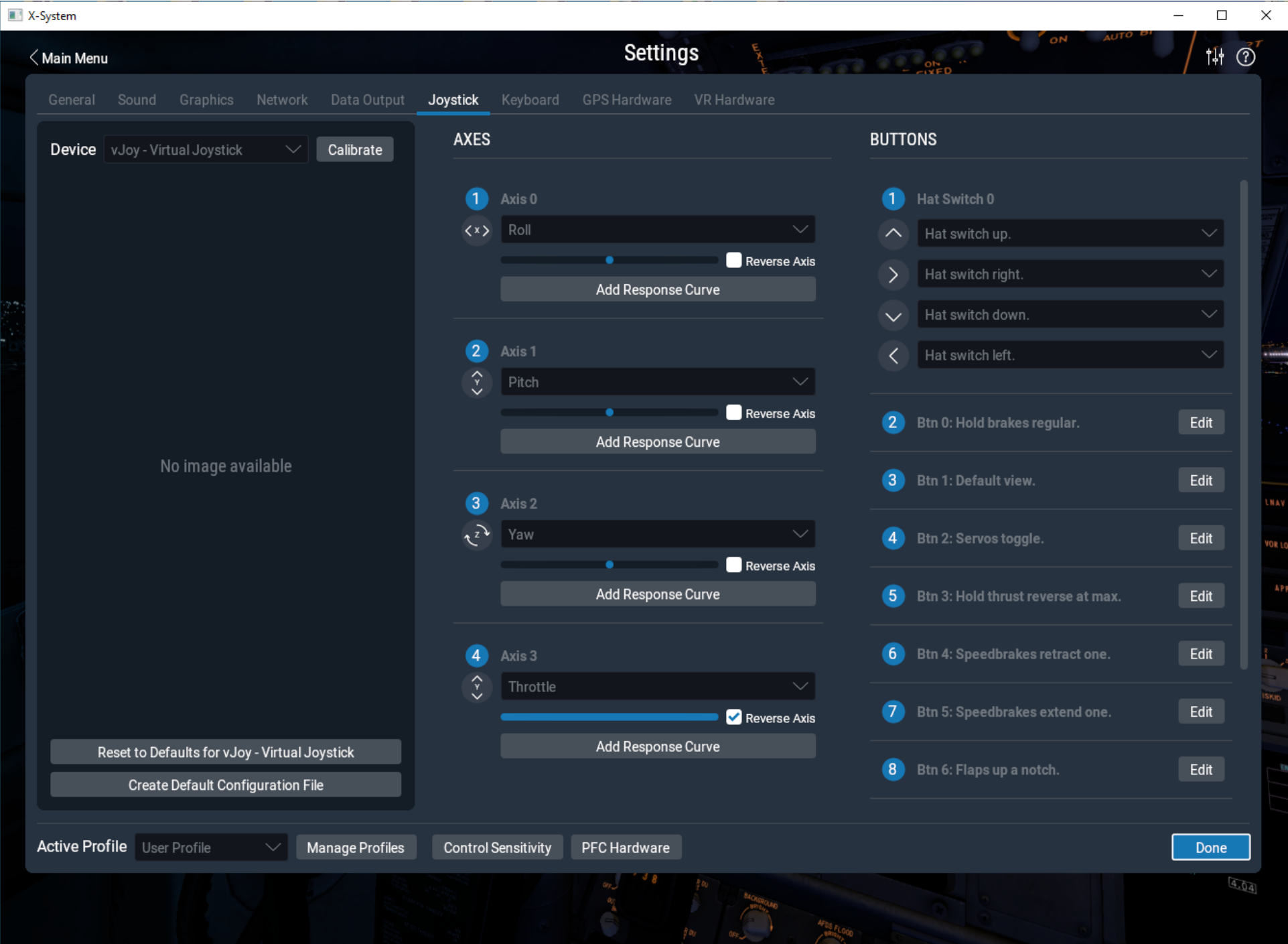


Figure 4. Example X-Plane 11 Configuration

In X-Plane 11, when asked to center all controls during calibration, place your phone down on a level surface and tap Calibrate button in the app to center all controls.

II. Go Flying!

Launch the FBW server on your computer and check a few things on the main screen:

1. **Server IP:** The application automatically detects your computer's local IP address. If your computer has only one network interface, you don't need to anything. If your computer has multiple network interface you may want to select IP address manually from the drop down menu to match the interface used for WLAN connection.
2. **Server Port:** The default port that the server listens on is 7773. If default port is taken by another application, you can manually set the port number to something else (1000-65535).
3. **vJoy Device:** Select the vJoy device you want to use. The default device is #1, leave it unchanged unless you're doing some advanced configuration. If there's no device to select from in the drop down menu, make sure you have vJoy device driver correctly installed and refresh with [Main-Refresh vJoy Device List](#).

If configured alright, check **Enable**, and copy enter **IP** and **Port** into the app. Tap the BIG blue button and you'll have full control!

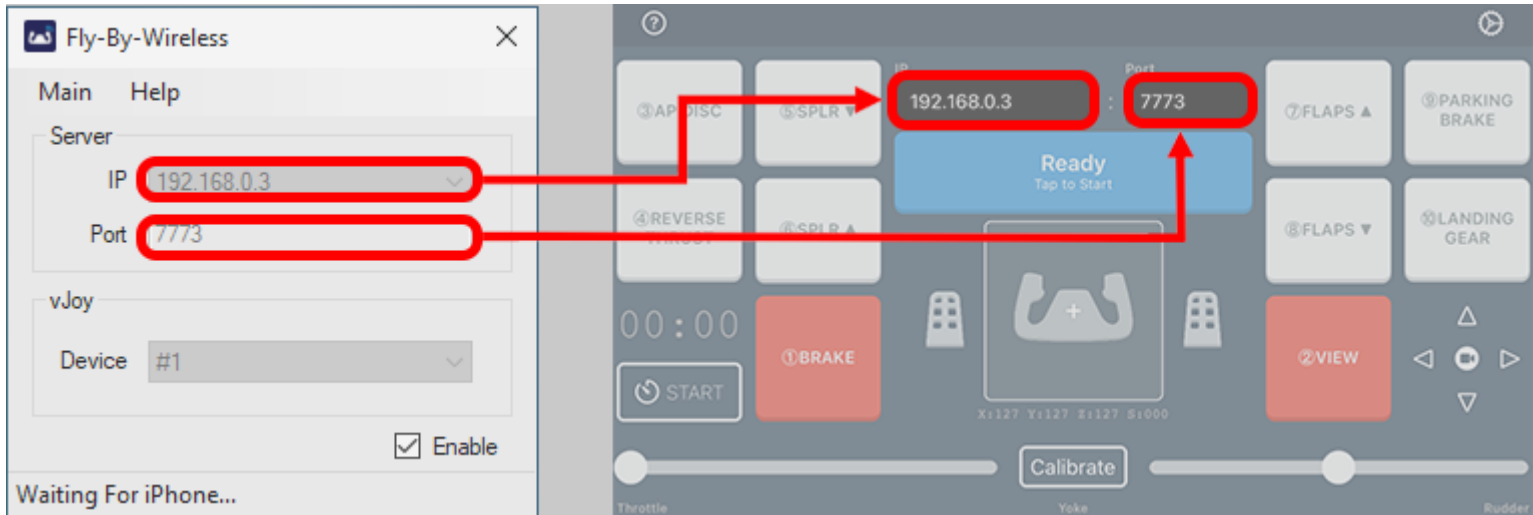


Figure 5. Network Configuration

Closing the server window will minimize FBW server to system tray. If you want to exit the application, right click the tray icon, or using the menu bar **Main-Quit**.

Tips

- If you're tired of holding your device during cruise, tap the yoke icon in the center of the app to temporary disable the X/Y input. FBW will hold your current X/Y input until you tap again to re-enable. Y axis will automatically calibrate to make sure the input is continuous.
- You can adjust axis sensitivity in the settings. Generally, use higher sensitivity for X (roll) axis and lower sensitivity for Y (pitch) axis can make adjustment during a landing easier.

III. Control Binding Examples

Example 1: Microsoft Flight Simulator (2020)

In-App Control	Input	Binding
Device Tilt (Leftward/Rightward)	Joystick L - Axis X	Aileron Axis
Device Tilt (Forward/Backward)	Joystick L - Axis Y	Elevator Axis
Left Slider	Joystick L - Axis Z	Rudder Axis
Right Slider	Joystick Slider X	Throttle Axis
Button 1	1	Brakes
Button 2	2	Toggle Smart Camera
Button 3	3	Toggle Autopilot Master
Button 4	4	Toggle Throttle Reverse Thrust
Button 5	5	Retract Spoilers
Button 6	6	Extend Spoilers
Button 7	7	Decrease Flaps
Button 8	8	Increase Flaps
Button 9	9	Toggle Parking Brakes
Button 10	10	Toggle Landing Gear

In-App Control	Input	Binding
POV Left	POV Left	Cockpit Quickview Left & External Quickview Left
POV Right	POV Right	Cockpit Quickview Right & External Quickview Right
POV Up	POV Up	Cockpit Quickview Up & External Quickview Top
POV Down	POV Down	Cockpit Quickview Rear & External Quickview Rear

Example 2: X-Plane 11

In-App Control	Input	Binding
Device Tilt (Leftward/Rightward)	Axis 0	Roll
Device Tilt (Forward/Backward)	Axis 1	Pitch
Right Slider	Axis 2	Yaw
Left Slider	Axis 3	Throttle
Button 1	Btn 0	Hold brakes regular
Button 2	Btn 1	Default view
Button 3	Btn 2	Toggle servos
Button 4	Btn 3	Toggle thrust reversers
Button 5	Btn 4	Speedbrakes retract one
Button 6	Btn 5	Speedbrakes extend one
Button 7	Btn 6	Flaps up a notch
Button 8	Btn 7	Flaps down a notch
Button 9	Btn 8	Toggle brakes regular effort
Button 10	Btn 9	Landing gear toggle
POV Left	Hat Switch 0 - Left	Hat switch left
POV Right	Hat Switch 0 - Right	Hat switch right
POV Up	Hat Switch 0 - Up	Hat switch up
POV Down	Hat Switch 0 - Down	Hat switch down