Honeycomb Bravo Plugin

Version 1.1.1

Introduction

The primary objective of the Honeycomb Bravo Plugin is to facilitate the seamless integration of the Honeycomb Bravo control module with X-Plane, eliminating the dependency on the Aerosoft AFC bridge or the Honeycomb configurator. This independent plugin is designed to autonomously identify the loaded aircraft and dynamically implement the appropriate configuration for that specific aircraft, provided that the corresponding profile is already incorporated into the plugin.

The development of this plugin was motivated by the incompatibility of the Aerosoft configurator and the AFC bridge with Macs using Apple Silicon architecture. Notably, the plugin has undergone thorough testing on Apple Silicon, both with and without Rosetta, and has also been validated on Mac Intel systems. While its compatibility with Windows and Linux is anticipated, further testing on these operating systems is required to confirm seamless functionality.

By offering a Mac-friendly alternative, this plugin serves as a versatile solution, ensuring that users can enjoy a streamlined and efficient experience when utilizing the Honeycomb Bravo hardware with X-Plane, irrespective of their operating system.

Also, thank you to @PeakFinder for starting the modification of this plugin to work on mac native Apple Silicon. To @Alfiepops for helping on the ZIBO B738 configuration. And also, to @nonstop73 and @Clyde Crashcup for testing the plugin during the very initial phase, and all the other testers that helped in the plugin validation.
And finally, thanks to everyone who has been providing and testing new aircraft profiles. Names mentioned in the Change Log section.

Operation

This plugin will configure the commands for the right and left knobs of the Honeycomb Bravo, as well as the LEDs of the hardware. Further configuration is required to map the proper commands, as explained in the installation section of this document.

Aircraft Profiles

Current aircraft profiles:

- Default aircrafts
- ZIBO B738
- EVO BE9L G1000
- C172 SKYHAWK & G1000, by Plam55
- SR22, by Plam55

More aircraft profiles can be incorporated to the plugin in the future.

Requirements

- Mac Apple Silicon, with or without Rosetta, or Mac Intel.
- X-Plane 12
- FlyWithLua NG+:

https://forums.x-plane.org/index.php?/files/file/82888-flywithlua-ng-next-generation-plus-edition-for-x-plane-12-win-lin-mac/

Note that the Honeycomb Bravo plugin might or might not run on Windows and Linux. It was never tested on those 2 operational systems. Testing and feedbacks are very appreciated.

Installation

The installation zip package contains the following compacted files and folder:

- Honeycomb Bravo Plugin Manual.pdf

- Honeycomb Bravo.lua

- joystick configs FOLDER

    o HoneycombBravoThrottle_Linux.joy

    o HoneycombBravoThrottle_Mac.joy

    o HoneycombBravoThrottle_Win.joy

The installation steps are:

1. Make sure that the latest version of the FlyWithLua NG+ is installed.

2. Remove any AFC bridge or the Honeycomb configurator files. They will conflict with this plugin.

3. Unzip the downloaded zip file.

4. Copy the 3 *.joy files from the joystick configs FOLDER of this package to the folder "*<X-Plane12>/Resources/joystick configs*". The 3 original files are missing some configuration, but it is recommended to back up them. **Read the IMPORTANT note at the end of this installation section.**

5. Copy the file **Honeycomb Bravo.lua** to the FlyWithLua script folder at "*<X-Plane12>/Resources/plugins/FlyWithLua/Scripts/"*.

6. Open X-Plane.

7. Once an aircraft is loaded, move the left knob (ALT, VS, HDG, CRS, IAS) of the Honeycomb Bravo all the way counter-clockwise to the IAS position. This procedure will align the knob and the script, allowing the script to start tracking the knob position. This step must be done every time that an aircraft is loaded.

8. Map the left and right knobs of the Honeycomb Bravo in X-Plane configuration as following:

    a. Right knob

        i. INCR: HoneycombBravo/increase

        ii. DECR: HoneycombBravo/decrease

INCR: Increase the value of the autopilot mode selected with the rotary encoder. Edit

DECR: Decrease the value of the autopilot mode selected with the rotary encoder. Edit
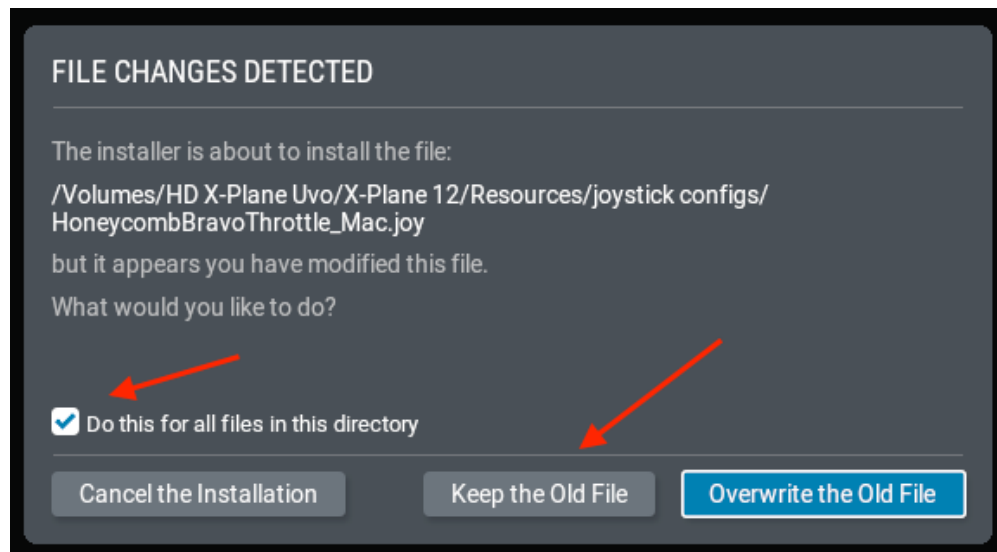
b. Left knob

    i. IAS: HoneycombBravo/mode_ias

    ii. CRS: HoneycombBravo/mode_crs

    iii. HDG: HoneycombBravo/mode_hdg

    iv. VS: HoneycombBravo/mode_vs

    v. ALT: HoneycombBravo/mode_alt

IAS: Set autopilot rotary encoder mode to IAS.	Edit
CRS: Set autopilot rotary encoder mode to CRS.	Edit
HDG: Set autopilot rotary encoder mode to HDG.	Edit
VS: Set autopilot rotary encoder mode to VS.	Edit
ALT: Set autopilot rotary encoder mode to ALT.	Edit

9. All the rest of the Bravo switches, levers and buttons can be configured according to your preferences to each aircraft. The plugin will not touch them.

10. Report any issue, or suggestion in the comments section of the download page of this plug in in the X-PLANE.ORG.

11. Enjoy.

IMPORTANT: Every time that you run the X-Plane installer to update your X-Plane, the installer will ask to overwrite the *.joy files in the joystick configs FOLDER. You simply confirm to keep the old files. If you accept to overwrite the files, you have to copy again the 3 *.joy files of this package. See the screen shot below:

Author

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Change Log

0.0.4

- Modified from the original HoneycombBravoMacHelper v0.0.3 from Joe Milligan.

- Modified for ZIBO B738.

0.0.5

- Merged with the HoneycombBravoZIBOv1.5 from Alfiepops.

0.0.6

- Fixed compatibility issues with X-Plane version XP12.0.9-rc-5 or newer.

0.0.7

- Fixed Parking Brake LED and Anti Ice LED, matching the annunciators.

0.0.8

- Added automatic airplane detection and set configuration.

- Added ZIBO B738 profile.

- Added BE9L profile.

- Added default aircrafts profile.

- Added Bravo and aircraft detection to the log.txt.

0.0.9

- Fixed issue with LEDs not turning on.

- Code clean up.

- Typos fixed.

0.0.10

- Fixed VS above 1000 fps for B738.

1.0.0

- Initial public release.

1.1.0

- Add C172 profile, by Plam55.

- Code clean up.

1.1.1

- Fixed issue with C172 G1000 Autopilot Altitude knob function.
- Add SR22 profile, by Plam55