

Honeycomb0nArm64MacOS

Installation Guide

Honeycomb Bravo configuration plugin for MacOS

Native Apple Silicon

For X-Plane 12

OpenSource



Run X-Plane 12 Apple Silicon compatible aircraft with
Honeycomb Bravo controls, without needing Rosetta

Features

- Assign commands for all rotary controls
- Assign commands for all autopilot buttons
- Assign datarefs for all annunciator lights
- Assign datarefs for all autopilot button lights
- Use Bravo switches to modify rotary and button behaviour

Built-in configs for all Laminar Research supplied aircraft

Uses JSON files to read/modify/create configs



Installation 1

This installation step for a first-time install. If you are upgrading from a previous version of the plugin, please go [here](#) for the upgrade process.

Copy the Honeycomb directory to X-Plane 12/Resources/plugins

Open a terminal and go to the plugin directory.

Usually `cd "<your user area>/X-Plane \12/Resources/plugins"`

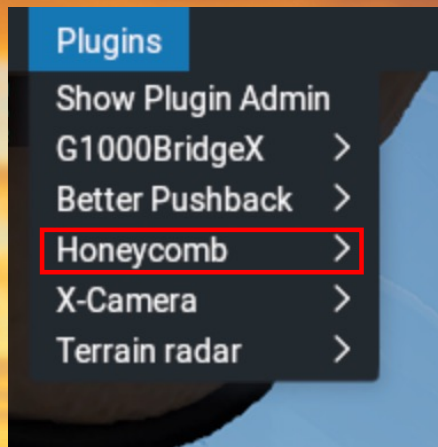
Run command `"xattr -dr com.apple.quarantine ./Honeycomb"`

Start x-plane (in apple silicon native mode)

Installation 2

In x-plane select your aircraft and start your flight

Go to the plugin menu and verify the Honeycomb plugin is present



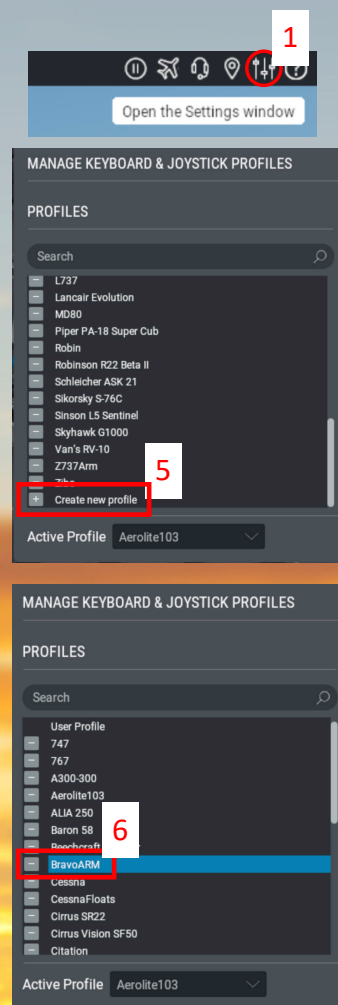
A screenshot of the X-Plane Plugin Admin window. The window has three tabs: 'Overview', 'Performance', and 'Information'. The 'Overview' tab is selected. It displays a table of installed plugins. The 'HoneycombOnArm64MacOS' plugin is highlighted with a red rectangle. The table has columns for ID, Name, Type, Cost, and Enabled.

ID	Name	Type	Cost	Enabled
1	PluginAdmin	Plugin		<input checked="" type="checkbox"/>
2	G1000BridgeX	Plugin		<input checked="" type="checkbox"/>
3	Navigraph Simlink	Plugin		<input checked="" type="checkbox"/>
4	BetterPushback-v0.52	Plugin		<input checked="" type="checkbox"/>
5	HoneycombOnArm64MacOS	Plugin		<input checked="" type="checkbox"/>

Installation 3

1. Open the x-plane settings window
2. Select the joystick tab
3. Select the Bravo Throttle
4. Click 'Manage Profiles'
5. Click '+' to "Create new profile"
6. Call it something like BravoARM*

This profile will become the base config required for the plugin to work correctly and will be copied to each new aircraft that wants to use the plugin. The following pages describe how to set up the base config and how to apply it to each aircraft



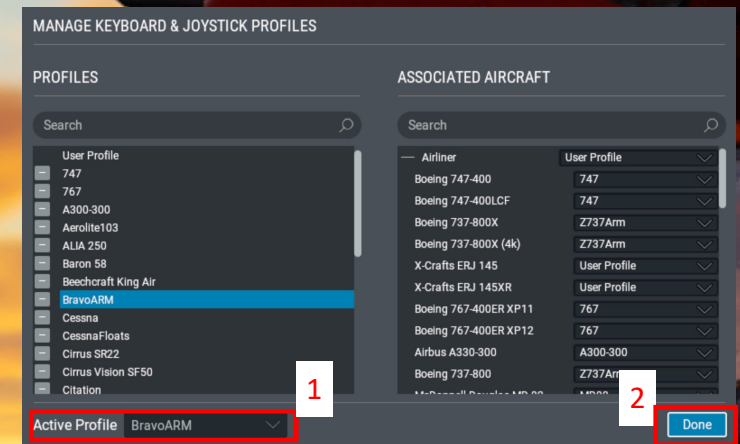
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Installation 4

The next step will take a few minutes, but only is only done once. During this step you will assign a plug-in reference to every Bravo button, toggle and rotary control. This enables the plug-in to respond to every button press, toggle press or rotary click and apply the correct command based on the plane's configuration profile

- Ensure the steps on the previous page have been completed
1. Select the new base config in the 'Active Profile' dropdown
 2. Press 'Done'
 3. Go to the next page



Installation 5

- Ensure the steps on the previous page have been completed

- Click on the 'Edit' button for Switch 1
- Go to the next page

*Ignore these values for now. Your config may look very different at this point. However, this is what it will look like when you have completed the current setup steps.



Installation 6

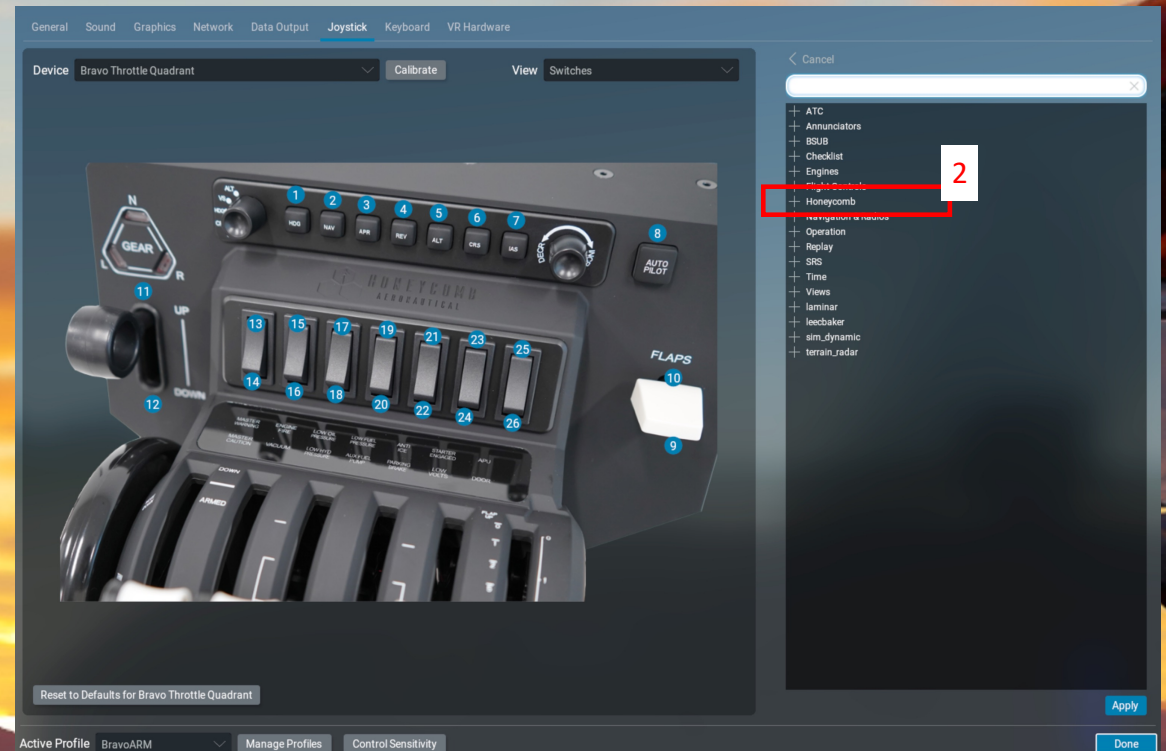
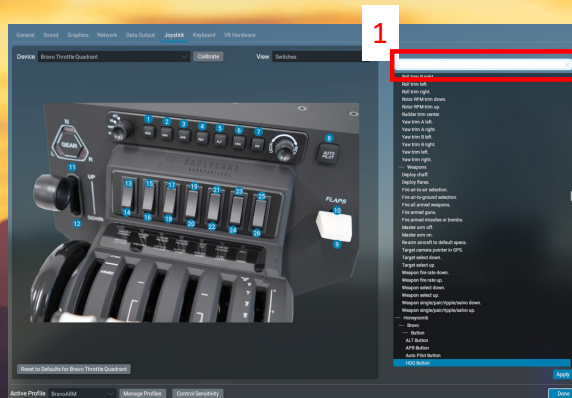
- Ensure the steps on the previous page have been completed

On my mac the command list always appears in a random order. To fix this

- Enter a single character in the search box, then delete it.

This rearranges everything in hierarchical order, making it much easier to find the right Honeycomb command

- Click the '+' next to Honeycomb and explore the structure underneath
- Go to the next page



Installation 7

- Ensure the steps on the previous page have been completed

1. Select the HDG Button option
2. Click apply
3. Go to the next page



Device Bravo Throttle Quadrant

Calibrate

View Switches

Installation 8



- Repeat installation steps 5, 6, 7 for
1. each of the eight autopilot buttons
 2. all switches 13-26
 3. the increment and decrement rotary
 4. the function selector rotary

Other Controls

- | | | | |
|---|-----------------------------------|---|------|
| 1 | Btn 12: Rotary Selector Increment | 3 | Edit |
| 2 | Btn 13: Rotary Selector Decrement | | Edit |
| 3 | Btn 16: Rotary Selector IAS | 4 | Edit |
| 4 | Btn 17: Rotary Selector CRS | | Edit |
| 5 | Btn 18: Rotary Selector HDG | | Edit |
| 6 | Btn 19: Rotary Selector VS | | Edit |
| 7 | Btn 20: Rotary Selector ALT | | Edit |

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Switches

- | | | | |
|----|----------------------|---|------|
| 1 | 1: HDG Button | 1 | Edit |
| 2 | 2: NAV Button | | Edit |
| 3 | 3: APR Button | | Edit |
| 4 | 4: REV Button | | Edit |
| 5 | 5: ALT Button | | Edit |
| 6 | 6: VS Button | | Edit |
| 7 | 7: IAS Button | | Edit |
| 8 | 8: Auto Pilot Button | | Edit |
| 9 | | | Edit |
| 10 | | | Edit |
| 11 | | | Edit |
| 12 | | | Edit |
| 13 | 13: Switch 13 | 2 | Edit |
| 14 | 14: Switch 14 | | Edit |
| 15 | 15: Switch 15 | | Edit |
| 16 | 16: Switch 16 | | Edit |
| 17 | 17: Switch 17 | | Edit |
| 18 | 18: Switch 18 | | Edit |
| 19 | 19: Switch 19 | | Edit |
| 20 | 20: Switch 20 | | Edit |

Ignore 9-12 for now,
these are not
controlled by the plugin

Reset to Defaults for Bravo Throttle Quadrant

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Installation Guide vBeta1.02

Active Profile BravoARM

Manage Profiles

Control Sensitivity

Done

Installation 8a

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Make sure the previous step has assigned all the green-box items in your new base config (BravoArm or whatever you named it). Anything missing or mis-configured from the green box will cause unexpected plug-in behaviour. The plug-in only manages the Bravo controls listed in the green box, Any other controls can be assigned any value you wish. This includes the blue box items below, however the blue-box controls are commonly assigned to these commands, so may be useful to include in your base config.

Switches

1

1: HDG Button

Edit

2

2: NAV Button

Edit

3

3: APR Button

Edit

4

4: REV Button

Edit

5

5: ALT Button

Edit

6

6: VS Button

Edit

7

7: IAS Button

Edit

8

8: Auto Pilot Button

Edit

Other Controls

1

Btn 12: Rotary Selector Increment

Edit

2

Btn 13: Rotary Selector Decrement

Edit

3

Btn 16: Rotary Selector IAS

Edit

4

Btn 17: Rotary Selector CRS

Edit

5

Btn 18: Rotary Selector HDG

Edit

6

Btn 19: Rotary Selector VS

Edit

7

Btn 20: Rotary Selector ALT

Edit

13

13: Switch 13

Edit

14

14: Switch 14

Edit

15

15: Switch 15

Edit

16

16: Switch 16

Edit

17

17: Switch 17

Edit

18

18: Switch 18

Edit

19

19: Switch 19

Edit

20

20: Switch 20

Edit

21

21: Switch 21

Edit

22

22: Switch 22

Edit

23

23: Switch 23

Edit

24

24: Switch 24

Edit

25

25: Switch 25

Edit

26

26: Switch 26

Edit

9

10: Flaps down a notch.

Edit

10

9: Flaps up a notch.

Edit

11

11: Landing gear up.

Edit

12

12: Landing gear down.

Edit

Throttle Buttons (GA)

1

1: Pitch trim down.

Edit

2

2: Pitch trim up.

Edit

Installation 9

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Final step for this first aircraft

1. Ensure the new base config is selected in the 'Active Profile' dropdown (see Installation 4, graphic 1)
2. Click the 'Manage profiles' button at the bottom of the config window (see Installation 3, graphic 4)
3. Scroll to the bottom on the left-hand pane and click on 'Create new profile' (see installation 3, graphic 5)
4. Give the new profile a suitable name for this aircraft*

This creates a new profile specific to this aircraft, incorporating all the assignments from the base config

5. Ensure the new aircraft profile is assigned to this aircraft in the right-hand pane (see Installation 4, graphic 2)
6. Ensure the new aircraft profile is selected in the Active Profile box
7. Click 'Done' (see Installation 4, graphic 2)
8. Complete the plane's control assignments for throttle controls, flap controls, Gear up/down controls etc in the usual way.

Go Fly - see user guide for information on using the plugin assigned controls

This completes the plug-in installation and the setup of your first aircraft (see next page for configuring other aircraft to use the plugin).

*If you intend using both the ARM plugin and the Bravo Manufacturer's own AFC_Bridge plugin for the same aircraft, then in step 4 you need to give this profile a distinctive name (e.g., add 'ARM' to the end) so you can select it when using the ARM plugin. The AFC_bridge will need its own profile for this aircraft. See [here](#) for further information on AFC_Bridge co-existence



Installation 10

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Configuring the 2nd aircraft and beyond to use the plug-in

1. Start your flight with an aircraft not previously configured to use the plug-in
2. Open the x-plane settings window at the joystick tab
3. Select the Bravo Throttle
4. Select the BravoArm profile
5. Follow the instructions on the previous page to create a new profile for this new aircraft

Go Fly - see user guide for information on using the plugin assigned controls



Installation - compatibility with AFC_Bridge

HoneycombOnArm64MacOS

AFC_Bridge is the plugin from Honeycomb Aeronautical, manufacturers of the Bravo throttle control and Alpha yoke. AFC_Bridge is primarily a windows configuration tool but a version runs on intel macs and can also run on apple silicon macs under Rosetta. Note, running a plug-in under Rosetta means X-Plane must also run under Rosetta, which can significantly degrade performance and frame-rate on an Apple Silicon Mac.

The HoneycomOnArm64 plugin described in this document can be installed alongside AFC_bridge on an apple silicon mac as they are mutually exclusive. When X-Plane is run in intel mode using Rosetta, it will pick up the AFC_Bridge plugin. When run in native apple silicon mode it will pick up the HoneycomOnArm64 plugin.

The json files used by HoneycombOnArm64 and AFC_Bridge are bespoke to each plugin and are not interchangeable. If you run both plugins, they each require their own json configuration file per aircraft. They will also require their own aircraft profile within X-Plane.

Upgrading from a previous version – no custom json files

If you have not made edits to any of the default json files and have not created your own custom json files then

1. delete the Honeycomb directory X-Plane 12/Resources/plugins/Honeycomb
2. Follow the steps for a [first-time install](#) - only requires Installation steps 1 & 2

If you want to keep your custom json file, then see the next page

Upgrading from a previous version – keep custom configs

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You have two options:

1. take a copy of your custom json files
delete the Honeycomb directory
follow the [first-time install](#) process - only requires Installation steps 1 & 2
copy your json files back to the Honeycomb directory

OR

2. Keep the Honeycomb directory
delete the mac_x64 directory and replace with the new version
delete the Documentation directory and replace with the new version
Open a terminal and go to the plugin directory
Usually cd "<your user area>/X-Plane \12/Resources/plugins"
Run command "xattr -dr com.apple.quarantine ./Honeycomb"

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End of Installation Guide