

MSFS2020 CONTROLS QUICK REFERENCE GUIDE V 1.00

20201212 – bm98

- <https://github.com/bm98>
- Change Log: see ReadMe.txt

MSFS2020 Control Layouts - V 1.0.0.0 beta

Load Profiles

Report

Layout

Use Language Pack: en-US

Profiles found:

- ☐ Saitek Pro Flight X-55 Rhino Stick profile (Saitek Pro Flight X-55 Rhino Stick)
- ☐ Arduino Micro profile (Arduino Micro)
- ☐ X65F Flight Controller profile (X65F Flight Controller)
- ☐ Mouse profile 2 (Mouse)
- ☐ vJoy Device profile (vJoy Device)
- ☐ Arduino Leonardo profile (Arduino Leonardo)
- ☐ Keyboard profile (Keyboard)
- ☐ Mouse profile (Mouse)

Only the first 4 checked profiles will be used for the layout

Collection Report:

Collected MSFS2020 Game Control Data:

Saitek Pro Flight X-55 Rhino Stick profile -
Saitek Pro Flight X-55 Rhino Stick
4 Map(s); 15 Actions

Arduino Micro profile -
Arduino Micro
1 Map(s); 22 Actions

X65F Flight Controller profile -
X65F Flight Controller
2 Map(s); 25 Actions

Mouse profile 2 -
Mouse
10 Map(s); 33 Actions

frmPrint

Close Right Click for a Context Menu

Saitek Pro Flight X-55 Rhino Stick profile
Device: Saitek Pro Flight X-55 Rhino Stick

Plane

BRAKES	button6
KEY_PARKING_BRAKES	button5
ELEVATOR AXIS	y
AILERONS AXIS	x
AUTOPILOT OFF	button2

MODES

KEY_VIEW_MODE	button3
RESET COCKPIT VIEW	button1

Cockpit

KEY_COCKPIT_CLOSE_VIEW_TOGGLE	button13
KEY_COCKPIT_DEFAULT_VIEW_TOGGLE	button11

USER_CAMERA

LOAD CUSTOM CAMERA 1	button14
LOAD CUSTOM CAMERA 2	button9
LOAD CUSTOM CAMERA 3	button12
LOAD CUSTOM CAMERA 4	button10
LOAD CUSTOM CAMERA 6	button8
LOAD CUSTOM CAMERA 8	button7

Device Layout

2: X55 joystick

Close

X-55 Stick

Labels in diagram: AUTOPILOT OFF, RESET COCKPIT VIEW, BRAKES, KEY_VIEW_MODE, KEY_COCKPIT_DEFAULT_VIEW_TOGGLE, KEY_COCKPIT_CLOSE_VIEW_TOGGLE, KEY_PARKING_BRAKES, ELEVATOR AXIS, AILERONS AXIS, LOAD CUSTOM CAMERA 8, LOAD CUSTOM CAMERA 6, LOAD CUSTOM CAMERA 2, LOAD CUSTOM CAMERA 4, LOAD CUSTOM CAMERA 3, LOAD CUSTOM CAMERA 1.

Disclaimer: Usual stuff – no warranty whatsoever..
Freeware – made for the FS community
Hope it helps and does not suck.
Have fun ...



General Information

- Gathers Device Control Profiles from MSFS2020 folders known as of Dec-2020
- Select one or more profiles to create a report from
- Select one or more profiles to get a painted layout image
- Save reports and layouts
- Choose from available language packs (MS content though)

Note: How the program tries to find information:

C:\Users\<USER>\AppData\Local\Packages\Microsoft.FlightSimulator_8wekyb3d8bbwe\SystemAppData\wgs*

Profile files are named like "61A5D20E803D4FE19240F16264826161" but are essentially XML files (some of them anyway)

The program also looks into the registry to figure out the device VidPid in order to figure out the appropriate device layouts. If not found it will provide a generic Joystick layout.

For language aware texts the program tries to find the language pack in the FS installation folder which it looks up in the registry as well: e.g. E:\G\MSFSPackages

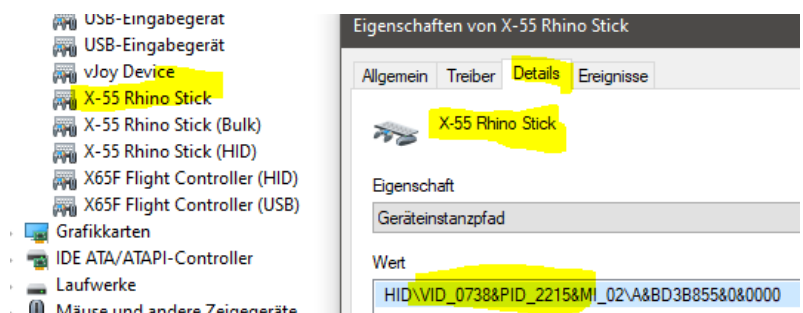
SO IF YOU ENCOUNTER access requests to registry—this would be perfectly intended ...

Contribution request

If you don't find your preferred control device in the layouts then we may create one for the community.

Please provide the following:

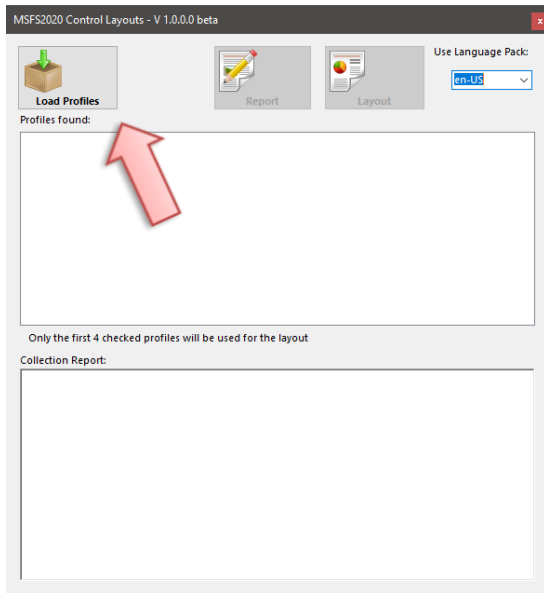
- A good image or Web Link for one
- A guide where the control items are clearly described i.e. buttons, axes etc.
- The VID_PID of the device (can be found in the device manager)



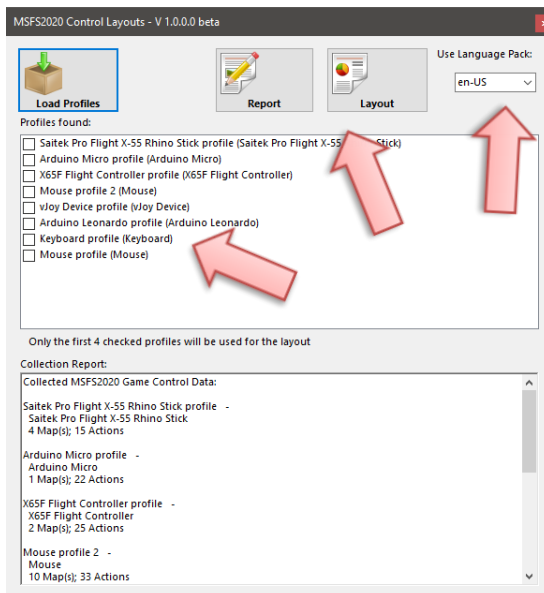
If you encounter an error or crash then read on...

- ♦ Collect as much information about your FS installation as possible. i.e. folder of the MS Package, devices used..
- ♦ send this via Git or to cassini@burri-web.org along with a description of the problem and your system i.e. OS, CPU, Graphics card, Joystick(s) we may then finally solve the issue ...

The Workflow



Start the program and hit **Load Profiles**



It should load the profiles into the empty area below and also create some report about the found items.

Check one or more profiles and then either Click **Report** or **Layout**

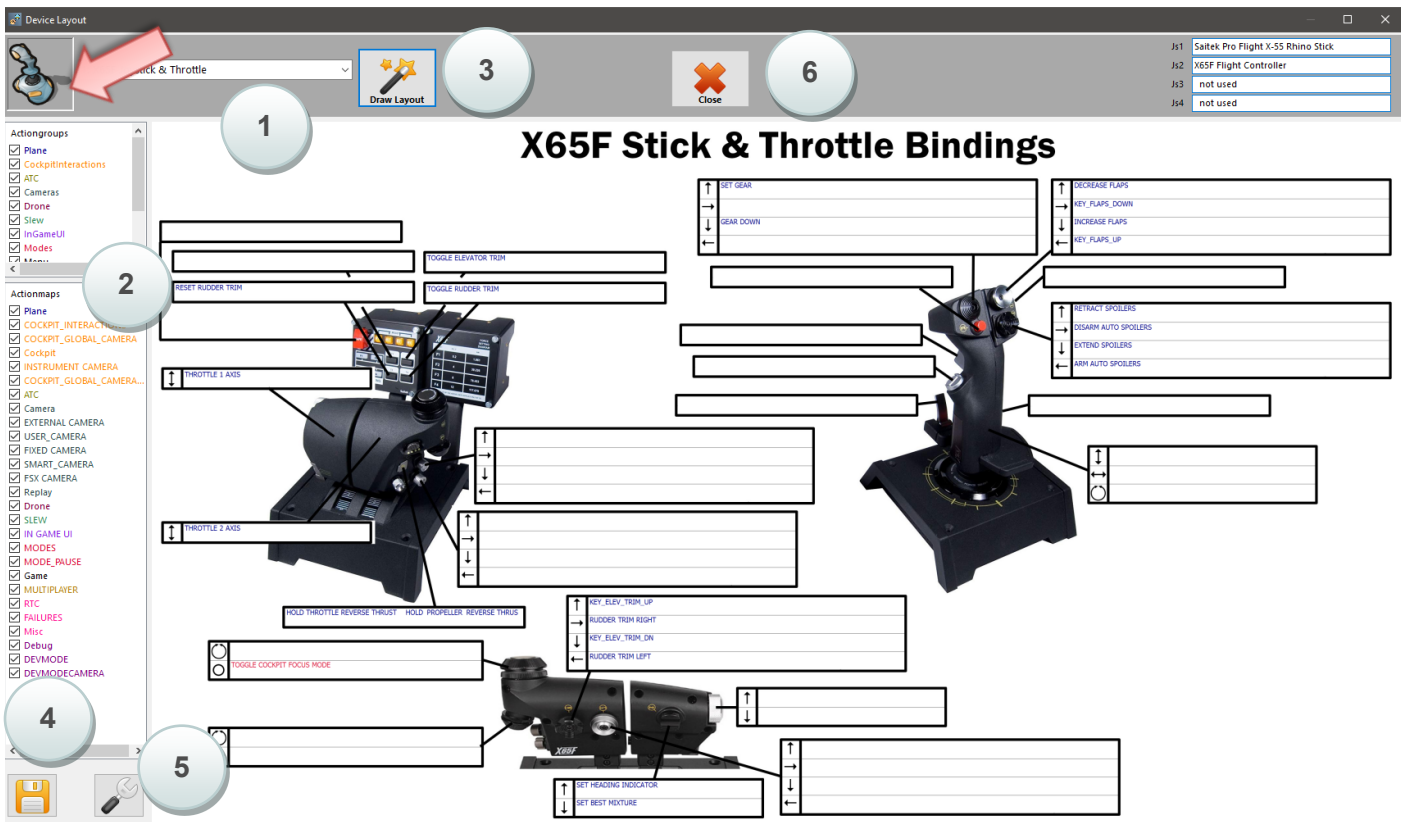
You may choose a language pack to use the MS provided strings for the actions found in the profiles.

Note: I found that there are a lot of translations still missing - may get better over times..

The keyboard Layout needs still some work for localization.

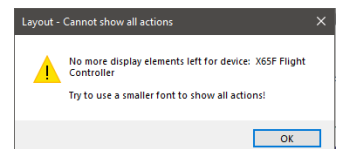
I.e. Keys may get into the wrong place for non QWERTY keyboards.

Device Layouts



Working with device layouts

1. Choose your device to map - there are a number of popular devices provided
For Joystick type devices the ones that match and a generic Joystick is provided.
If you see only a Generic Joystick then there is no specific Layout available yet (see page 1 on how to contribute for one)
2. Check the Actionmaps to layout - there are Actiongroups predefined to make it easier
3. Hit the Wand (Draw Layout) to see how it looks like - you may encounter a message that there is not enough room to layout all controls;
— either reduce the font or uncheck some Actionmaps or both
4. Once happy you may save the layout as image (PNG or JPG are supported)
5. To change the appearance, fontsize, colors go to Settings
6. Close the dialog by clicking the red crossed button

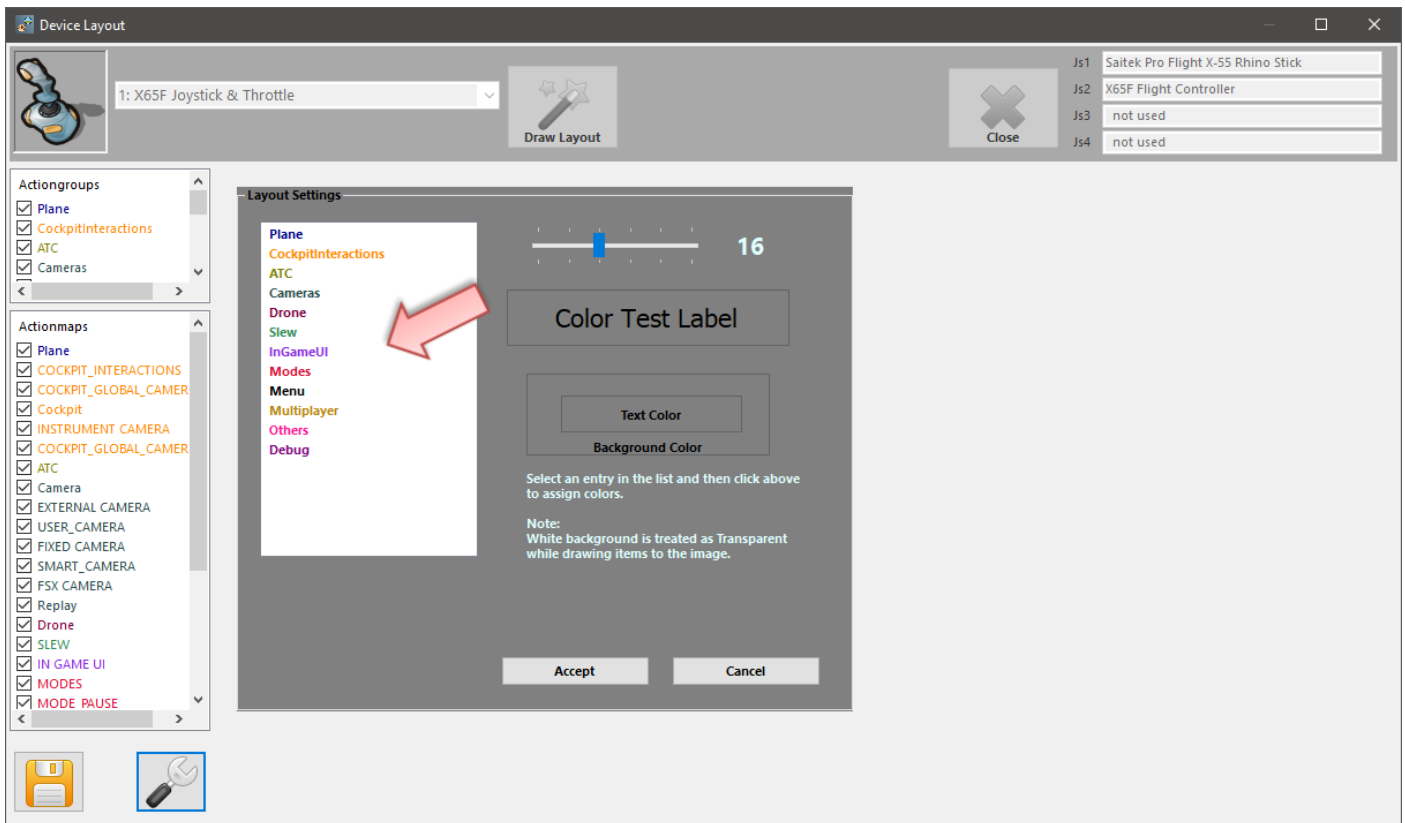


Double clicking the Joystick symbol toggles all Actionmaps at once

Consider - the layout will map whatever the checked profiles are setup. I.e. checking the keyboard and a Joystick profile will allow to layout EITHER the joystick device or the keyboard but not both at the same time.

Some layouts are for dual joysticks where both are the same device - select both profiles and the appropriate layout which comes as “right left” and “left right” variant - find the one that fits.

Device Layout Settings



Settings allows to change:

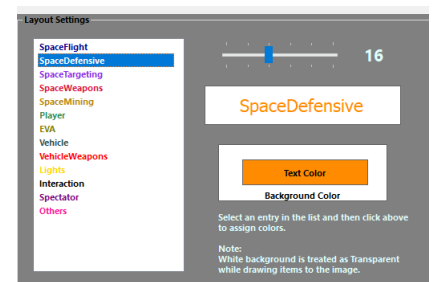
The font size from 12 to 22 pts using the Slider

The text and background color of each Actiongroup

To do so click one of the groups



It should show the groupname in preview with size and colors



Then click either text or background color to change it.

Use the new settings with Accept, else Cancel the configuration changes

Note: I found that clicking a group may take an odd while to show the current item, don't know why - but don't raise an issue, I don't know how to fix it anyway

If you want to make a layout for a device not in the list - raise an issue in Github

To prepare:

- Highres pictures of the device(s),
- A guide which control is where i.e. buttons, axes, etc.
- Use the Device Manager to get the device PID_VID & Name

Profile Report

FrmPrint

Close Right Click for a Context Menu

Saitek Pro Flight X-55 Rhino Stick profile

Device: Saitek Pro Flight X-55 Rhino Stick

Plane

BRAKES	button6
KEY_PARKING_BRAKES	button5
ELEVATOR AXIS	y
AILERONS AXIS	x
AUTOPILOT OFF	button2

MODES

KEY_VIEW_MODE	button3
RESET COCKPIT VIEW	button1

Cockpit

KEY_COCKPIT_CLOSE_VIEW_TOGGLE	button13
KEY_COCKPIT_DEFAULT_VIEW_TOGGLE	button11

USER_CAMERA

LOAD CUSTOM CAMERA 1	button14
LOAD CUSTOM CAMERA 2	button9
LOAD CUSTOM CAMERA 3	button12
LOAD CUSTOM CAMERA 4	button10
LOAD CUSTOM CAMERA 6	button8
LOAD CUSTOM CAMERA 8	button7

X65F Flight Controller profile

Device: X65F Flight Controller

Plane

SET HEADING INDICATOR	button40
KEY_FLAPS_UP	button12
KEY_FLAPS_DOWN	button10
KEY_ELEV_TRIM_DN	button31
KEY_ELEV_TRIM_UP	button29
SET GEAR	hat1_up
INCREASE FLAPS	button11
DECREASE FLAPS	button9
EXTEND SPOILERS	button15
RETRACT SPOILERS	button13
ARM AUTO SPOILERS	button16
DISARM AUTO SPOILERS	button14
GEAR DOWN	hat1 down

Report list the checked profiles in one document.

You may right click to open a context menu to copy, select All and Save As (RTF file)

Alternatively you may use Ctrl-A to select all then Ctrl-C to copy the content as RTF.

Paste it into e.g. WinWord or any other RTF aware application.

Hints ...

Intentionally left blank for future hints -
OR your hint if you send it to me ...



Changelog:
V1.00 - Initial version