MSFS CamControl V 0.65.0.65

New: 6DOF Camera, Folders G+H (additional 20 slots)

Control the Sim Camera from an independent App

- The App supports many Cam functions in a more condensed space than the MSFS Cam Window
- However at the time of writing many functions in SimConnect are not (yet) working – so this App is to be considered as Work In Progress
- As soon as MSFS supports more it will be added to the App

It is modelled to match the Views available in the Sim Camera Tool.

Content

Usage of the Standalone App

- Deploy the release all zip content in a folder (no installer provided or needed)

Best is to start MSFS first, then the CamControl
Start MSFS2020 first and once the Main Menu is shown

- Start FS20_CamControl.exe
- It attempts to connect to the Flight simulator in 5 sec intervals, but shows a red line on top while it cannot connect

Limitations

User Cam Saves cannot be loaded from an external App for the time being (SU12).
Switching cams via App when the MSFS Cam Window is open may cause spurious CTDs for unknown reasons.

Camera Management Console

A separate Window to control the Camera Views.

It is modelled to match the Views available in the Sim Camera Tool.
Hint: to see what is what open the Sim Camera tool and hit some buttons in the new Console – the Sim Tool will update accordingly

Open the Console via RightClick Menu **Camera…**

Close it with the X top right

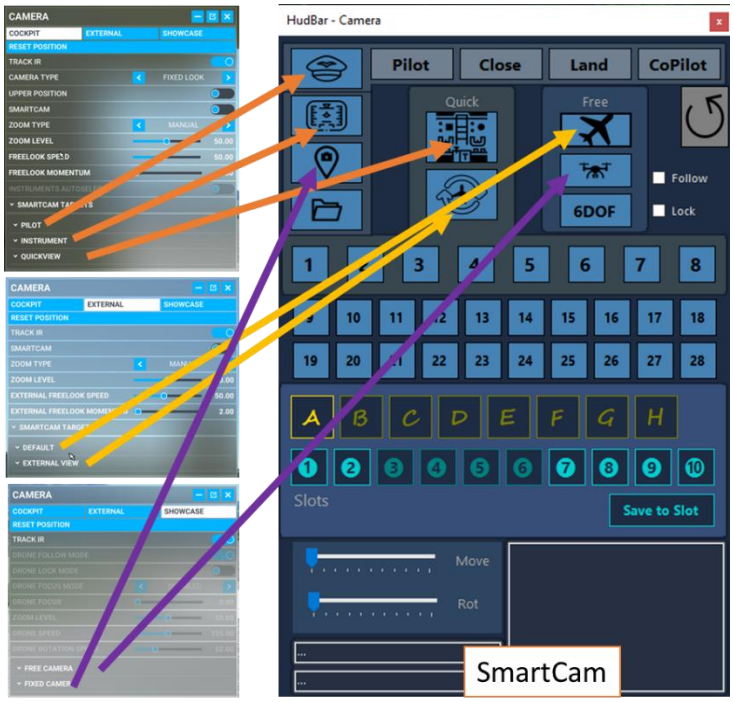
The **View Icons** match according to the illustration to the right.

Quick Views are named as such.

Free Views are the **Drone** and the **External** Default Cameras

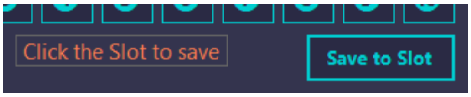
The **Cockpit** View goes with **Pilot**, **Instrument** and the **Quick** View.
For the Pilot the 4 fixed positions are named (Pilot, Close, Land, CoPilot)

Except for the Free Views the preset camera POI is selected with a **numbered button 1..28**.
Quick Views have 8, other Views according to the configuration of the plane (black numbers).



Starred ☼ Views

Up to 80 saved views are available in the lower part of the Window



You may **save** the **current** view into one of the 8 Folders (**A..H**) - Slots (❶..⑩), only the View is saved, not position, angle etc. when changed.

To **Save**, click '**`Save to Slot`**' and then the **Slot** to save to. To **Cancel** Save, click the Save button again.
The red advice should then go away.

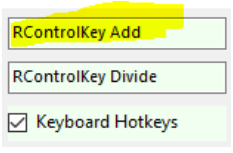
To **Recall**, click the **Folder/Slot** while not in Save mode.

Reset View

Sometimes it is helpful to **Reset** a View

HotKey Binding for the HudBar Version

Show/Hide can be assigned to a **keyboard shortcut**. It is also mapped to a MSFS command (ADF2_FRACT_DEC_CARRY), both must be enabled in Configuration (see Hotkeys above).
There is no label, it is two above the CheckBox for Keyboard Hotkeys (see Tooltip)
Here I assigned it to <Right Control> + <Numpad+>, default it is empty.



NOTE: Sometimes switching Views or POIs may not change the first time, just hit the button again.
I assume there is still quite a bit of WorkInProgress ™ by Asobo… as the Sim Tool does the same.
Also note that I cannot retrieve the names of the POI views as shown in the Sim Window – we have to live with the numbers …

Another note: With SU12 **Custom Views** cannot be recalled via SimConnect Events – hopefully this will be resolved in another update of MSFS. (That would be the Folder Icon)

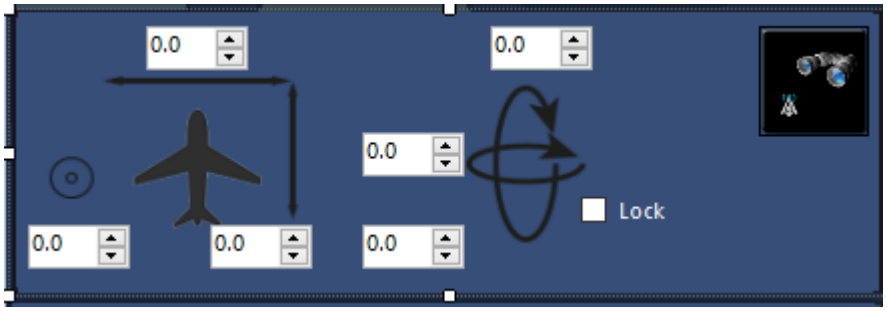
6DOF Camera (new V0.65)

This is *undocumented* in the MSFS SDK but works in SU12 …

The 6DOF Camera is a gimballed camera firmly attached to the aircraft at position 0/0/0 which is usually close to the pilot seat.
Note: the camera is really attached to the plane and will follow ALL movements of the aircraft, especially when on a runway it shakes quite a bit...

One can adjust the position of the camera relative to its origin in X,Y,Z which is front, back; above, below; and left, right of that center point.
The gimbal, or viewpoint of the camera is controlled by heading (left, right), pitch (up, down), and bank values.

! 6DOF Camera Positions can be saved to Slots and recalled like other camera positions (see Starred Views).
For the 6DOF camera also the number values are saved and restored.



When selecting the 6DOF cam the button area is overlaid by the numeric controls shown above.

Using the numeric controls one can adjust the **position** and **viewpoint** (gimbal) of the camera.

- On the left side is the cam position (the circle is up, down movement)
- On the right side the viewpoint (gimbal)
- Checking **LOCK** will maintain the viewpoint towards the aircraft while moving the camera position
- The button to the right will set a 'look down' viewpoint either left or right down

Numeric controls can be clicked, clicked and held, or accept a number entry.
The value range is +-500.0 for the position which is an increment of about 10cm (4 inch) and +-180.0° for the viewpoint.

Note: the MSFS Camera Dialog show does not support this mode but you still can revert to any other cam view if you wish (need) to do so.

Distributed Contents:

My FlightSim Libraries (included in the release package)

SEE README.TXT FOR THE LIST

Appendix:

Issue Reporting:

In case you encounter a problem please include as much information as possible. Sometimes it is also relevant which aircraft you were using.

To get some helpful information the following procedure will create such output:

Locate where the application is stored (where you extracted the ZIP)

Create a file: `HB_DEBUG.txt`

Usually **Right click** in the Explorer File list gives you a **New >**
There choose Text Document and rename it to `HB_DEBUG.txt`
It is just an empty file to trigger debug output into a file `DEBUG_log.txt`

Restart the HudBar and try to reproduce the problem

Exit the HudBar and include the `DEBUG_log.txt` file in the failure report

It is a plain text file – so you can check the contents for anything you don't like to be sent out.

Once done you may delete the `HB_DEBUG.txt` file to no longer create debug output.

Issues can be reported directly via GitHub (or a Message in Flightsim.to)

https://github.com/bm98/FS20_HudBar/issues

https://flightsim.to/file/16604/msfs-hudbar