FSiPanel 2024

User manual

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1 Introduction

1.1 Welcome to FSiPanel 2024

FSiPanel is designed to offer flight simulation enthusiasts an efficient and professional way to practice IFR approaches with their favorite airplanes—just like airline pilots.

As an airline pilot with over two decades of experience and a passionate flight simulation enthusiast, I understand the challenges of setting up complex aircraft maneuvers for practice. The traditional setup process for approaches can often be time-consuming and cumbersome.

FSiPanel 2024 eliminates these frustrations, enabling you to set up your desired approach at any airport listed in the MSFS 2024 database within seconds. With enhanced features and broader compatibility, FSiPanel 2024 is tailored to make your training as streamlined and effective as possible.

1.2 Important Notice

Before using FSiPanel, we strongly recommend reading through this user manual carefully. A thorough understanding of the software will help you avoid configuration issues and optimize your training sessions for maximum effectiveness.

1.3 GSX Compatibility issue

It has recently been reported that, in some cases, the GSX module (COUATL64) may cause the aircraft to crash while FSiPanel is positioning it. We have contacted FSDreamTeam to seek a solution. In the meantime, if you encounter this issue, please open your Task Manager and end all COUATL64 processes before clicking on MOVE AC.

1.4 Account Management

To download the latest installer, retrieve your license number, or check your account details, please log in to your FSiPanel account

1.5 Community and Support

For the latest updates, tips, and faster support, join our active community on social media and our user forum. Stay connected to ensure you don't miss any important news or announcements.

- Forum: Link to the forum (Password: "Embraer")
- Facebook: Link to FSiPanel Facebook Page
- YouTube: FSiPanel YouTube Channel
- Discord: Invite link

1.6 Licensing and Usage

FSiPanel 2024 is classified under the entertainment category and is not intended for commercial flight training. For commercial usage, a special license and agreement are required. Similar authorization must also be obtained from addon developers when applicable.

Thank you for choosing FSiPanel 2024. We're excited to support your journey to mastering IFR approaches and advanced flight simulation techniques.

Fly safe!

Best regards,
Jean-Pierre Garraio

2 Supported MSFS 2024 aircraft

You will find below a list of supported aircraft. This list will continue to expand over time with new ASOBO aircraft and third-party aircraft as they become available. FSiPanel will only support aircraft that are near or at study-level quality.

Some aircraft require specific procedures to be used with FSiPanel. To ensure you start correctly and don't miss any important steps, we have created a dedicated YouTube section. This includes tutorials for all aircraft, starting with General Aviation (both with and without autopilots) and extending to other aircraft that require special attention. Make sure to watch the quick tutorial for your favorite aircraft to learn how to use it effectively with FSiPanel.

You can access the YouTube list here.

2.1 Standard Edition

2.1.1 Airliners

Manufacturer	Supported Models
Airbus	A310-300, A320neo, A321LR, A330, A330-747 Beluga XL
Boeing	737 Max 8, 747-8I, 787-10 Dreamliner
Douglas	DC-3
De Havilland Canada	CL-415, DHC-2 Beaver, DHC-6 Twin Otter

2.1.2 Jets

Manufacturer	Supported Models
Cessna Citation	CJ4, Longitude
Fairchild Republic	A-10 Thunderbolt II
Heart Aerospace	ES-30
Boeing Military	F/A-18E

2.1.3 Turboprops

Manufacturer	Supported Models
Beechcraft	King Air 350i
Daher	TBM 930
Pilatus	PC-12 NGX, PC-6 B2

2.1.4 Propellers

Manufacturer	Supported Models
Beechcraft	Bonanza G36, Baron G58
Cessna	152, 152 Aerobat, 172 Skyhawk
Diamond Aircraft	DA40 NG, DA62, DA40 TDI, DV20
Robin Aircraft	DR400-100 Cadet, SAS CAP 10
Zlin Aviation	Savage Cub, Savage Norden, Shock Ultra
EXTRA Aircraft	330LT

2.1.5 Others

Manufacturer	Supported Models
ICON Aircraft	ICON 45
Cirrus Aircraft	Vision SF50, SR22
Ryan NYP	Spirit of St. Louis
Grumman	G-21A Goose

2.1.6 Helicopters

Coming soon!

2.2 Advanced Edition

The Advanced Edition is compatible with all Standard Edition aircraft and the following third-party aircraft. This list will grow over time as we continue to support additional third-party developments.

2.2.1 Airliners

Manufacturer	Supported Models
Fenix	A319, A320, A321
iniBuilds	A310, A300-600R, A330, A350
JustFlight	Avro RJ
JustFlight	Fokker 28 v2
PMDG	Boeing 777-200ER, 777F, 777-300ER
Leonardo	Maddog MD82
FSLabs	A321, A321 NEO
iFly	B737 MAX 8
Aerosoft	CRJ 550 / 700 / 900 / 1000

2.2.2 Propellers

Manufacturer	Supported Models
A2A Simulations	Piper Comanche

3 Edition Comparison and Feature Details

3.1 Standard Edition

The Standard Edition provides essential functionalities for basic training scenarios.
Key features include:

- Basic approach practice for various types of aircraft.
- All positioning options (Base, Downwind, Vectors, Final, STAR waypoint, Pilot Waypoint)
- Rate my landing: A detailed landing report to analyze and improve your performance.

3.2 Advanced Edition

The Advanced Edition builds on the Standard Edition by adding powerful tools and features for comprehensive flight training. It is designed for users who wish to master advanced maneuvers, failures, and airline-style operations.
Key features include:

- Training Scenarios: Predefined modules for practicing specific flying conditions and failures.
- Advanced Failures Panel: Select and activate any failure during the flight simulation for realistic training.
- Advanced TCAS Training: Control the intruder aircraft's position for realistic collision-avoidance scenarios.
- Snapshot Feature: Save and reload specific cockpit scenarios (available on qualifying aircraft).
- Fenix A320 Snapshot: Save and reload specific flight scenarios (ground positions only).
- Flows: Automated cockpit flows for various phases of flight, such as before start, after start, taxi, line up, after takeoff, after landing, and shutdown.
- Circuit Feature: Complete customizable short flights prepared by FSiPanel around any airport in the world.

- Takeoff Training: Randomized takeoff scenarios with failures for decision-making training.
- Airline Flights: Simulated roster flights from point A to point B, featuring voice ATC.
- Snapshot Feature: Available on selected aircraft (check compatibility table).
- Failures: Advanced failure simulation with multiple trigger conditions.
- Slew to Flightplan position :Quickly reposition your aircraft to any point along the flight plan (on qualifying aircraft).Summary of Features:

4 Changelog

Version	Date	Note(s)
1.0.0.6	12/22/2024	Initial release
1.0.0.16	02/05/2025	Added Support for PMDG 777-200ER
1.0.0.25	09/06/2025	Added Support for FSLabs A321
1.0.0.28	04/07/2025	Fixed FSLabs A321 NEO Failures Fixed iFly 737 MAX 8 steering to the right

5 Installation

5.1 System requirements

Minimum System Requirements

- Operating System: Windows 10, or Windows 11 (64-bit)
- Flight Simulation Software: Microsoft Flight Simulator 2024
- Additional Software:
    - Microsoft .NET Framework version 4.8 or later

Optional:

- Database: A Navigraph subscription is recommended for an up-to-date navigation database, especially for flying STARs and training scenarios.

Antivirus Recommendations:

- It is strongly advised to temporarily disable your antivirus software and add an exception for the FSiPanel 2024 directory prior to installation. This action will help avoid any false positive detections. Rest assured, all files have been rigorously tested with VirusTotal.com. If you encounter any virus warnings, you are encouraged to submit the FSiPanel files to your antivirus provider for verification.

Note: During the installation process and the initial run of the software, FSiPanel will perform a system check to ensure compatibility. If your system lacks any required software, FSiPanel will guide you through the installation process..

5.2 Installing FSiPanel

5.2.1 Installer

Installing FSiPanel is a straightforward process. Follow the steps below to get started:

1. **Run the Installer**: Locate and double-click the FSiPanel installer file.
    - **Note**: It is recommended to run the installer as an administrator to ensure a smooth installation process.
2. **Follow On-screen Instructions**: The installer will guide you through the setup.
3. **Choose Installation Directory**: You have the option to install FSiPanel in the default Program Files directory or specify a different location of your choice.

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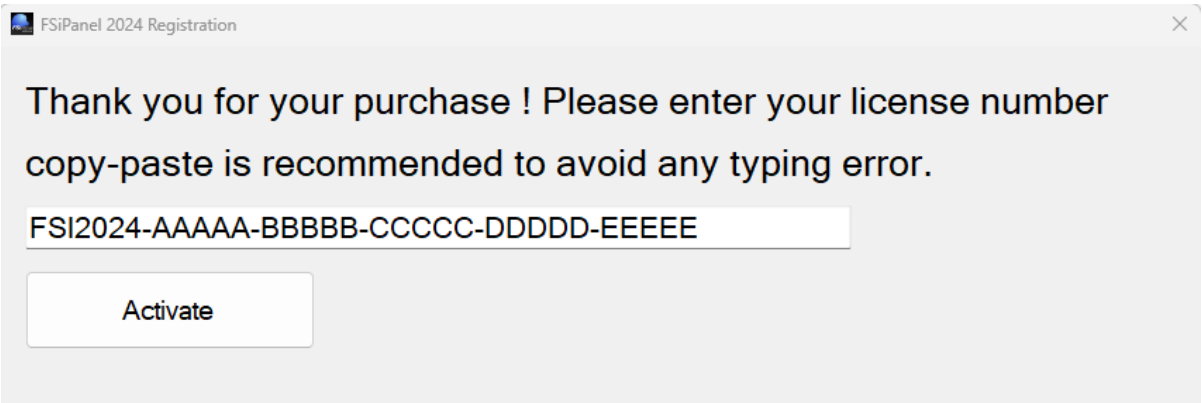
5.2.2 Software registration

On the first run of FSiPanel, you will be asked to register the software.



Activating your FSiPanel license is a crucial step in the installation process. Please follow these guidelines to ensure a successful activation:

1. **Copy-Paste the License**: Open the email containing your FSiPanel license. To avoid any typing errors, copy the license code and paste it into the designated field within the FSiPanel activation window.
2. **Activate**: Once the license code is entered, click the 'Activate' button to verify the validity of your license.

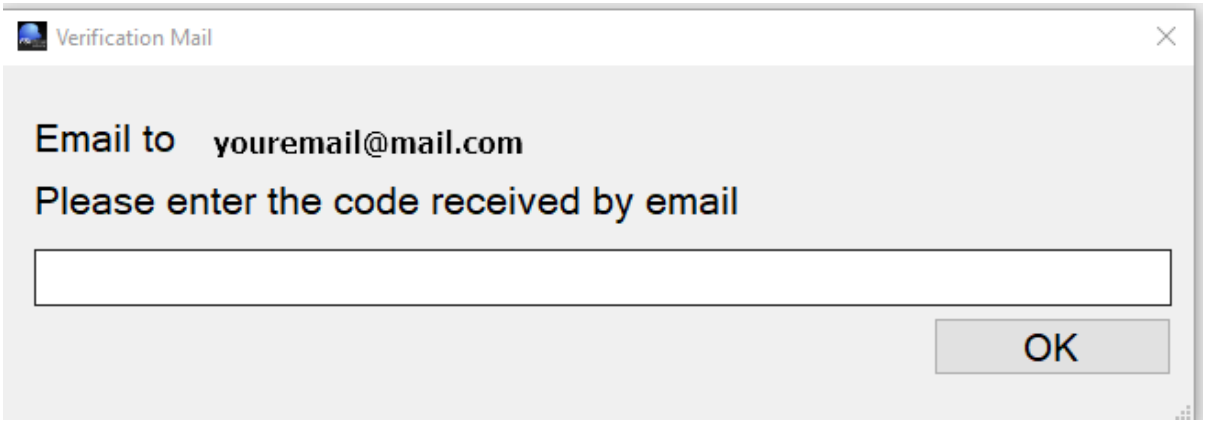
5.2.2.1 License status

- **Unlimited**: Your license has no expiration date and will remain valid indefinitely.
- **Subscription:** Your license is active but has a specific expiration date, which will be indicated.
- **Deactivated**: Your license has been revoked due to fraudulent usage or a processed refund.
- **Registration Issue**: This status indicates that FSiPanel has been installed on more than the allowed number of computers (two).

5.2.2.2 Email verification

As part of the license activation process, FSiPanel will send a validation code to the email address associated with your account. Please follow the steps below to complete the verification:

1. **Check Your Email**: Look for an email from FSiPanel containing the validation code.
    - **Note**: If you have recently changed your email address, contact support@fsipanel.com to update our license database, or visit the online shop to update your account information.
2. **Check SPAM Folder**: If you don't see the email in your inbox, please also check your SPAM folder to ensure it hasn't been mistakenly filtered.



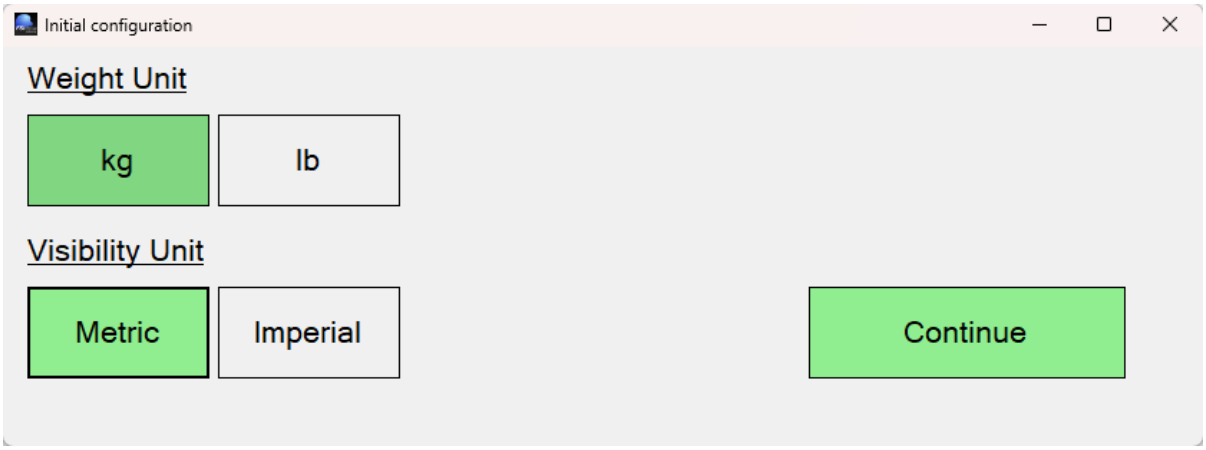
When license and email are verified, FSiPanel will restart.

6 Configure the software

6.1 Initial Setup on First Run

The first time you run FSiPanel, the software will guide you through some initial setup steps. Here's what to expect:

1. **Select Units**: You will be prompted to select your preferred units (e.g., Metric or Imperial) for flight data..
2. **System Requirements Check**: FSiPanel will automatically verify that your system meets all the necessary requirements for optimal performance.



Once setup is complete, FSiPanel will restart to finalize the configuration process. You can then begin using the software.

6.2 Options Tab

To access the setup page, click on the Setup button at the bottom right of the main screen.
You can check and change the default values used for the positioning of your aircraft
The following options are configured on this tab:

6.2.1 Aircraft positioning options

6.2.1.1 Final positions

Short Final Quick button

- Default value 4 NM.
- Description: This value will be used by the Quick Position button (Short Final) on the main screen.
- Adjustable Range: The default value for the Short Final distance can be adjusted between 3 NM and 7 NM

Long Final Button

- Default value 8 NM.
- Description: This value will be used by the Quick Position button (Long Final) on the main screen.
- Adjustable Range: The default value for the Long Final distance can be adjusted between 8 NM and 15 NM

6.2.1.2 Downwind position

Lateral distance to the Runway (RWY)

- Default value 3 NM
- Description: This value represents your lateral distance from the runway in NM when positioned on downwind.
- Adjustable Range: The default lateral distance to the runway can be adjusted between 2 NM and 8 NM.

Altitude AGL (in feet)

- Default value : 2000 ft
- Description: The aircraft will be positioned at xxxx ft AGL (Above Ground Level)

Note: For example, if the airport elevation is 499 ft and your setting is 2000 ft, the aircraft will be positioned at 2500 ft, which is 2000 ft above the airport elevation.

6.2.1.3 Base position

Base Leg Distance in NM

- Default value 3 NM.
- Description: Your base leg distance will be X NM until you intercept the final approach course.
- Adjustable Range: The default value for the base leg distance can be adjusted from 3 NM to 8 NM

Final Leg Distance in NM

- Default value 8 NM.
- Description: This will be your final distance in NM when intercepting the final approach course.
- Adjustable Range: The default value for the final leg distance can be adjusted from 4 NM to 15 NM

6.2.1.4 Vectors position

Vector Leg Distance in NM

- Default value 4 NM.
- Description: Your vector leg distance will be X NM until you intercept the final approach course.
- Adjustable The default value for the vector leg distance can be adjusted from 3 NM to 15 NM

Final Leg Distance in NM

- Default value 8 NM.
- Description: This will be your final distance in NM when intercepting the final approach course.
- Adjustable The default value for the final leg distance can be adjusted from 4 NM to 15 NM

6.2.1.5 Quick Traffic Pattern Options

Straight-out distance in NM

- Default value 5 NM.
- Description: This is the distance the aircraft will travel after takeoff before executing the first turn..
- Adjustable Range : The straight-out distance can be adjusted between 3 NM and 10 NM

Lateral offset distance in NM (Downwind)

- Default value 5 NM.
- Description: This is the lateral distance between the aircraft's downwind leg and the runway
- Adjustable Range : The lateral offset distance can be adjusted between 3 NM and 10 NM

Final distance in NM

- Default value 12 NM.
- Description: This is the distance at which the aircraft will intercept the final approach course
- Adjustable Range : The final distance can be adjusted between 6 NM and 20 NM

6.2.2 VR Mode

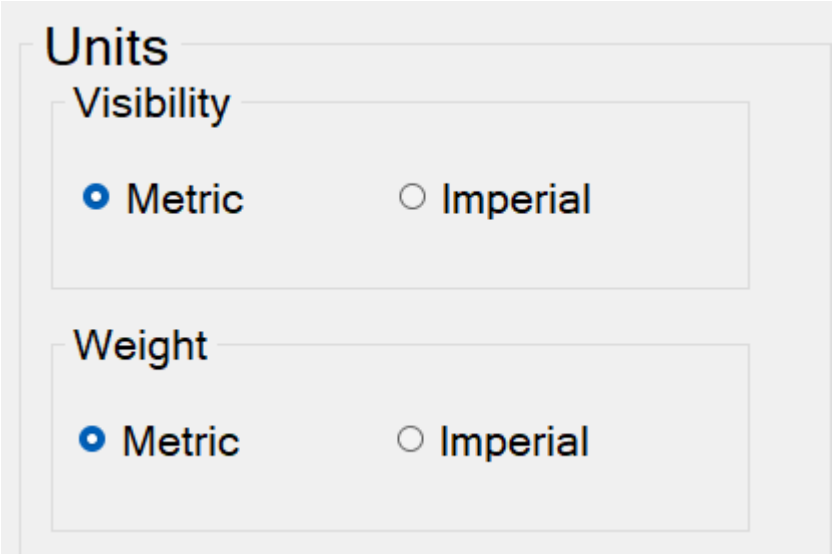
Enable this option if you plan to use FSiPanel with your VR headset. When activated, FSiPanel will provide specific instructions to ensure you're ready to put on your headset before flying. The approach setup or scenario setup shall be made in 2D using FSiPanel. After clicking on MOVE AC, the following will occur:

- FSiPanel will display a short instructions text
- Click OK on this message
- Within 15 seconds, switch MSFS to VR mode.
- Put your headset on and check that FSiPanel in-Game module is activated on the toolbar menu.
- After a few seconds, instructions will be displayed and visible with your headset.

For step-by-step guidance, refer to the tutorial here.

6.2.3 Units settings

Users can select their preferred units for visibility and weight to match their simulation preferences.



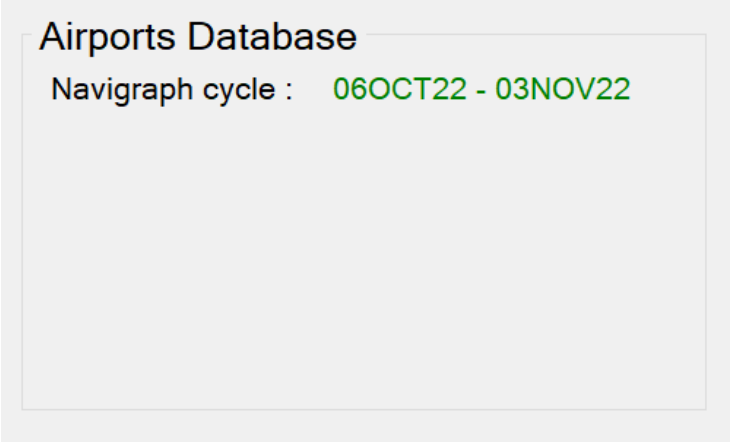
Note: Ensure that the selected units match the settings in your aircraft or simulation environment for consistency in data representation.

6.2.4 Airports database

FSiPanel integrates with the Navigraph database, allowing access to accurate and up-to-date navigation data. You can easily check the status of the installed AIRAC cycle within the software

FSiPanel comes with a default, outdated database. It is strongly recommended to update this database using a Navigraph subscription to ensure you have the most current and accurate navigation data for your simulations.

Use **Navigraph HUB** to update FSiPanel database



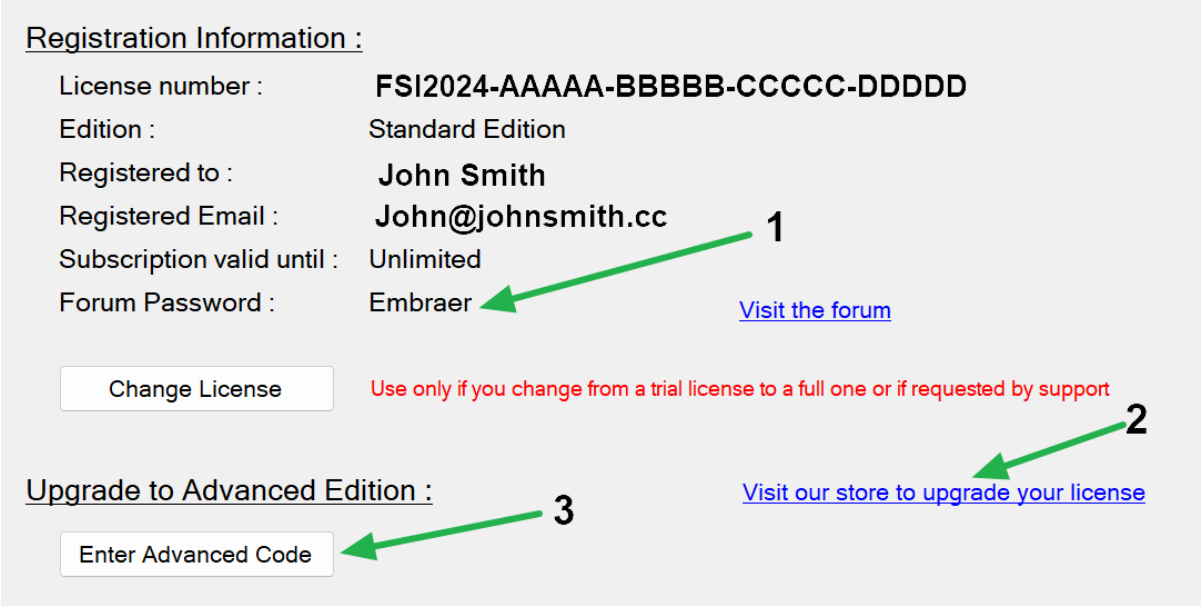
6.2.5 Set your Cockpit Flows button or key combination

To use the cockpit flows feature on supported aircraft, ensure you assign a controller button or a keyboard key combination for activation. This allows you to efficiently trigger automated flows during different phases of flight.

For step-by-step instructions, refer to the tutorial here.

7 License Information and Upgrade

You will find your license number as well as other important information under SETUP / License Information.



Notes:

1: Forum Password

This is your forum password, required to register and access the support forum.

2: *Upgrade Link*

Click this link to upgrade from the Standard Edition to the Advanced Edition.

3: *Upgrade Code*

Enter the one-time-use upgrade code you received via email to activate your Advanced Edition license.

IMPORTANT: If you need to re-install FSiPanel in the future, use your original Standard Edition license. The system will recognize it as an Advanced Edition license after the upgrade.

7.1 Visual Dark mode

Dark mode uses light colors to keep the atmosphere with low light intensity for night operation.

To activate night mode, double click on FSiPanel main screen.

Restart FSiPanel to revert to “Day Mode”

8 Getting started with FSiPanel (Quick tutorial)

The procedure to position your aircraft varies slightly between Airliners, Jets, and Propellers. To help you get started with FSiPanel 2024, I have created short tutorial videos demonstrating how to set up and fly a quick short final approach at your preferred airport.

Make sure to watch these aircraft-specific tutorials for a smooth and easy start.

8.1 Start the simulator and select your aircraft

The first step is to launch Microsoft Flight Simulator 2024 with your preferred aircraft at the airport where you plan to practice landings.

Once the aircraft is loaded in the simulator, ensure the following::

- **The engines are running.**
- **IRS (Inertial Reference Systems) are aligned.**
- **The aircraft is loaded as desired (passengers, fuel, and cargo).**
- **The Flight Director is switched ON.**
- **The FSiPanel in-game module is active on the MSFS toolbar.**

8.2 Start FSiPanel

FSiPanel will immediately detect whether your aircraft is compatible. This information is displayed at the bottom-left corner of the main screen.

Detected compatible aircraft : N/A

Aircraft not detected.

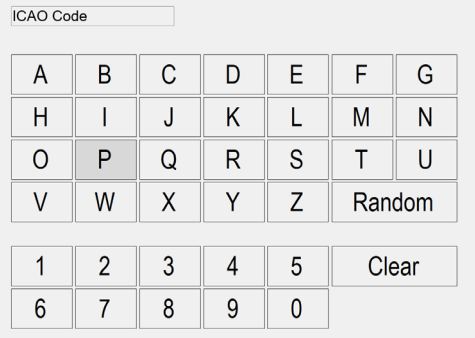
Detected compatible aircraft : TBM 930

Aircraft detected as TBM 930

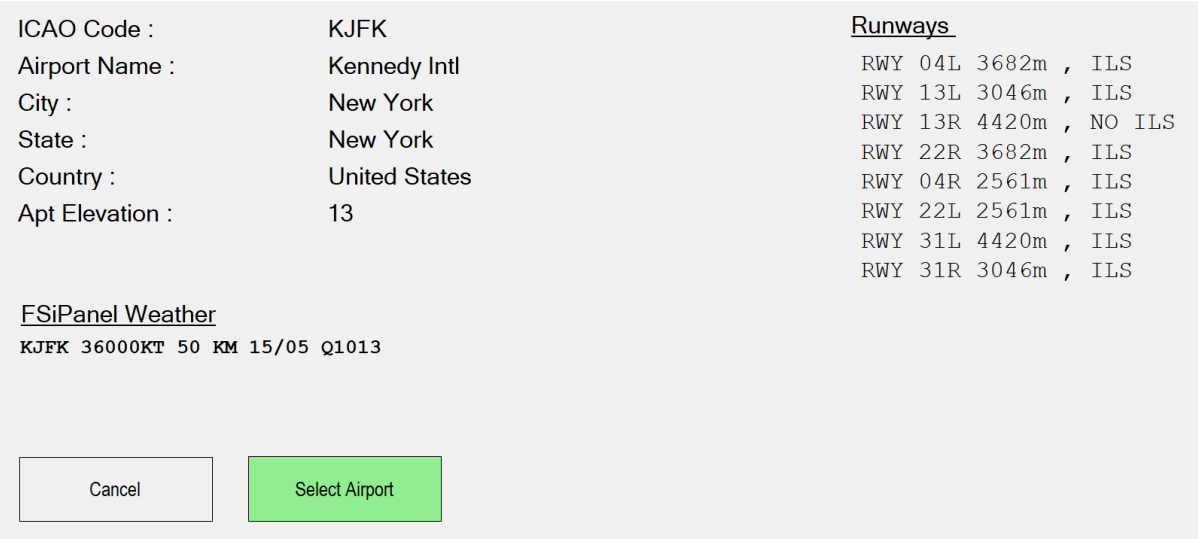
8.3 Select your airport

FSiPanel automatically selects the current airport and the closest runway. You can either keep this default setting or change it as needed.

To select a different airport, click on the Airport Select button (the first button at the top left of your screen, displaying the ICAO code of your current airport)



Enter the ICAO code of your desired airport (e.g., KJFK for New York JFK Airport).
Once the airport is located, the following information will be displayed



- Current Weather: The actual weather conditions at the selected airport
- Basic airport information: Key details about the airport.
- Available Runways: A list of all runways at the airport.

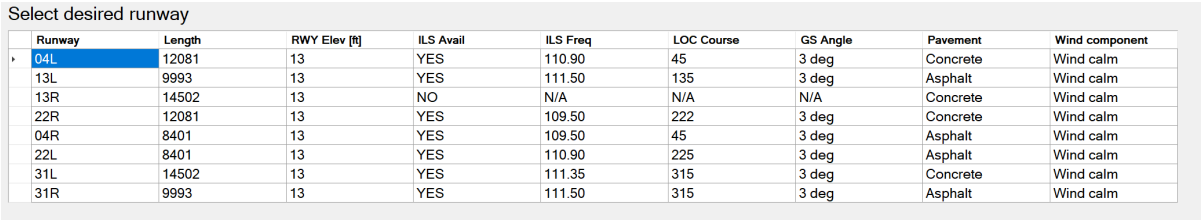
Click **Select Airport** to confirm your choice

8.4 Select your runway

Now, you need to select your runway.

Click on the Select Runway button or the currently displayed runway to proceed

A list of runways will be displayed as below:



Runway	Length	RWY Elev [ft]	ILS Avail	ILS Freq	LOC Course	GS Angle	Pavement	Wind component
04L	12081	13	YES	110.90	45	3 deg	Concrete	Wind calm
13L	9993	13	YES	111.50	135	3 deg	Asphalt	Wind calm
13R	14502	13	NO	N/A	N/A	N/A	Concrete	Wind calm
22R	12081	13	YES	109.50	222	3 deg	Concrete	Wind calm
04R	8401	13	YES	109.50	45	3 deg	Asphalt	Wind calm
22L	8401	13	YES	110.90	225	3 deg	Asphalt	Wind calm
31L	14502	13	YES	111.35	315	3 deg	Concrete	Wind calm
31R	9993	13	YES	111.50	315	3 deg	Asphalt	Wind calm

You can sort the runways by length, pavement type, or ILS availability.

To select the runway for your training, click on the corresponding line in the list.

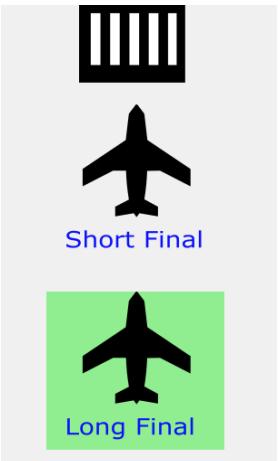
For example, I will select Runway 04L because it has an ILS available and is long enough for my 737.

8.5 Select your Quick Position Fix

Next, we will use the Quick Position Fixes buttons to set up a quick approach.

For this example, I will select a Long Final for Runway 04L by pressing the Long Final button.

(Note: The default distance for this position can be adjusted in the setup.)



8.6 Launch the approach

Everything is now set for a quick training session. Click the MOVE AC button located at the top-right corner of your screen to proceed.

What will happen next:

- FSiPanel will automatically switch to the MSFS view
- It will set your flaps.
- Your aircraft will be positioned at the correct approach position.
- FSiPanel will configure the autopilot modes (for aircraft equipped with an autopilot)
- It will also set the navigation settings for the approach

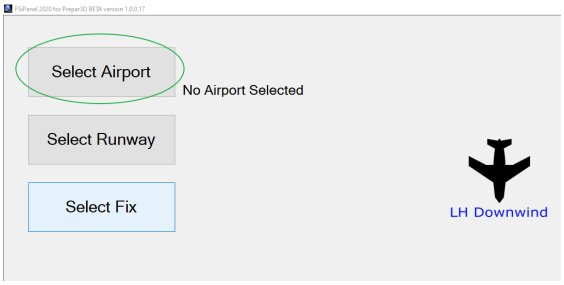
Once the aircraft is stabilized, a message will appear on your MSFS 2024 screen instructing you to take control. To do so, hold your brakes for three seconds, then proceed to fly your approach!

Note: Please do not touch any controls while FSiPanel is working. You can monitor its progress via messages displayed in the FSiPanel in-game panel.

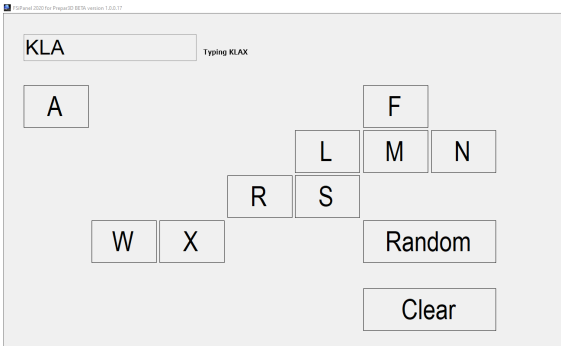
9 Select your airport and runway

9.1 User entry

You can select your airport by entering its 4-letter ICAO code (e.g., KLAX) or by allowing FSiPanel to select a random airport based on your specified criteria.



Click on Select Airport or the current ICAO code if an airport has already been selected, either manually by you or automatically as the closest available airport.

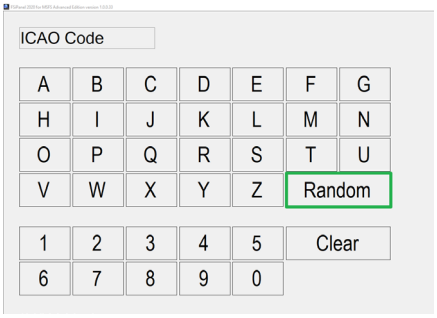


Type your desired airport code. Only the available letters will be displayed as you type.
For example, after entering KLA, the system will display only the remaining valid letters to complete the ICAO code.

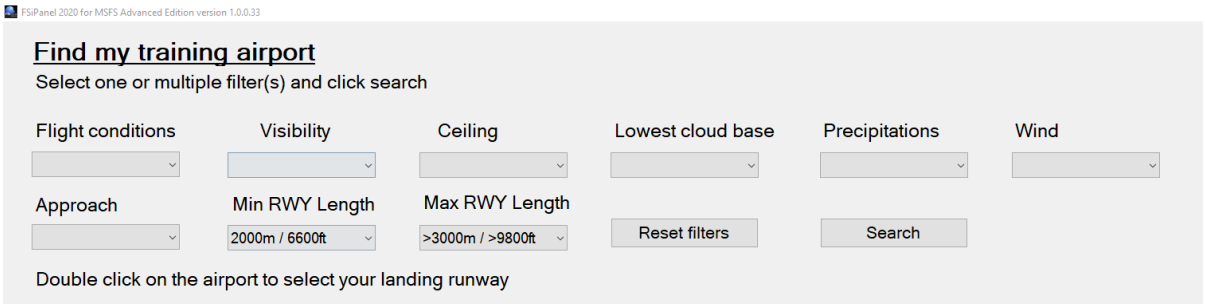
9.2 Random Airport

With this feature, FSiPanel can list all airports that meet your training criteria.

To access it, click on Select Airport and then RANDOM



Set your desired criteria and click **Search**.



A list of airports matching your criteria will be displayed. Select the one you want to use by double-clicking on it.

Live weather is used for this feature.

Note: If no airport is found, reset your filters and try again.

10 Selecting custom positions

FSiPanel allows you to select basic positioning options, including:

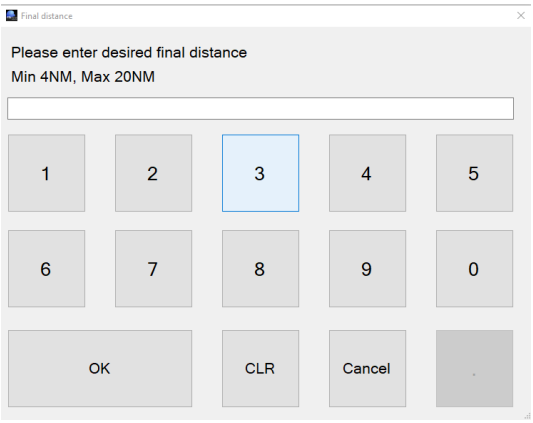
- Final
- Base
- Downwind
- Vector (30 degrees intercept to your final approach)
- STAR
- Airwork

You can choose these positions using the Quick Fix buttons on the main screen or access custom options by clicking the Select Fix button. (Note: The Select Fix button will only be visible if both an airport and a runway have been selected.)

10.1 Final Approach

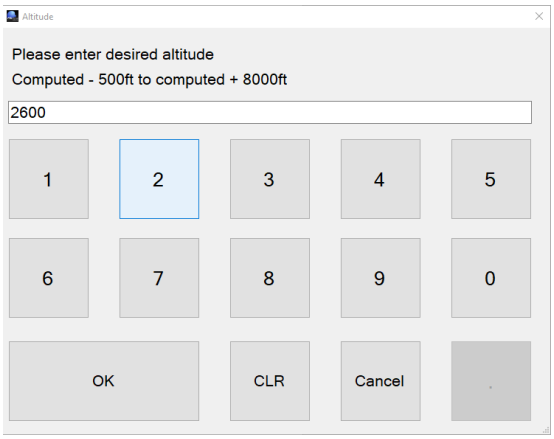
Selecting **4 NM** or **8 NM** is equivalent to using the **Quick Fix** buttons on the main panel (**Short Final** or **Long Final**)

The **X NM** Final button allows you to customize your desired approach distance in nautical miles.



Enter your desired approach distance.

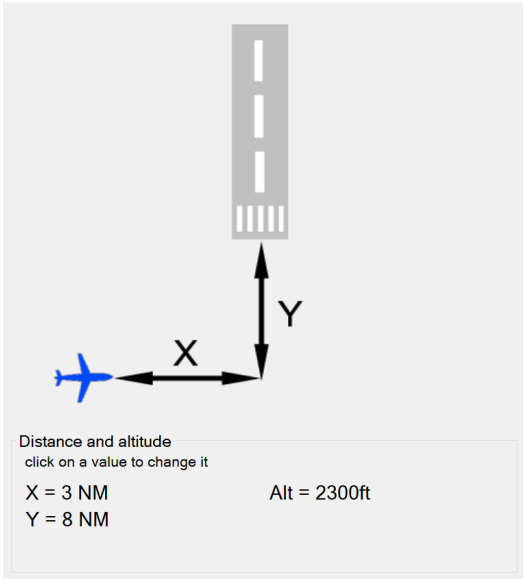
FSiPanel will calculate the correct altitude based on the runway's ILS glideslope angle (if available). If no ILS is present, it will default to a standard 3-degree glidepath.



Click OK to proceed with the default altitude, which positions you at the optimal height for your approach. Alternatively, enter a new value if you prefer to be positioned above or below the ideal glidepath.

10.2 Base options

You can select here your desired base settings



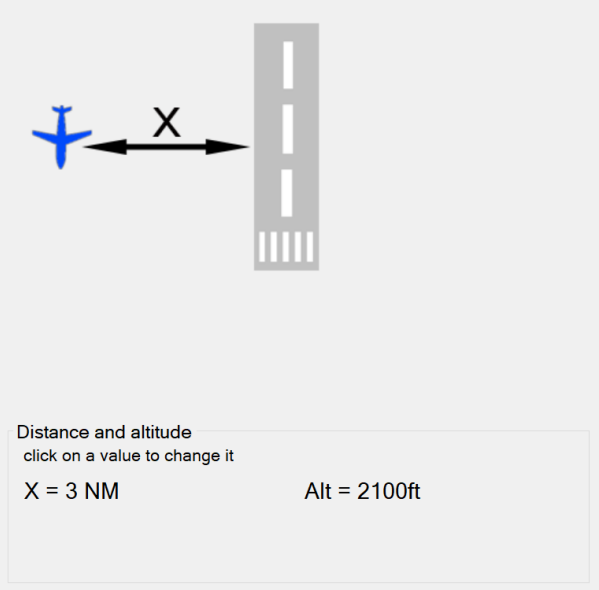
FSiPanel uses default parameters from your setup page as initial values

To change any value, click on the corresponding text. For example, click **X = 3 NM** to enter your desired distance.

If you modify the final distance (**Y = 8 NM** in the illustration above), FSiPanel will automatically compute the new ideal altitude. However, you can adjust the altitude manually to suit your needs, if desired.

10.3 Downwind options

You can select here your desired downwind settings



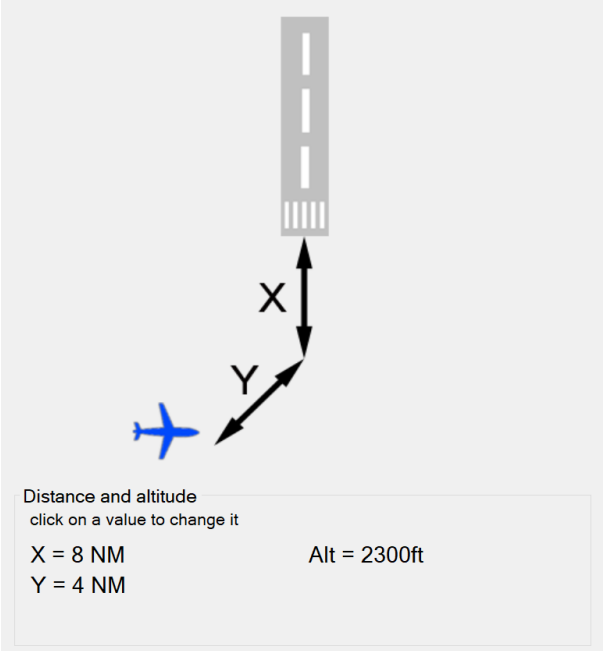
FSiPanel uses default parameters from your setup page as initial values.
To change any value, click on the corresponding text. For example, click **X = 3 NM** to enter your desired distance.

Altitude Calculation:

- The altitude is calculated as: Airport elevation + desired default downwind altitude.
- In the illustration above, the airport elevation is **50 ft**, and the default downwind altitude is 2000 ft AGL. Therefore, FSiPanel computes **50 + 2000 = 2050 ft** and rounds it up to the next autopilot-compatible value (**2100 ft** in this example)
- To adjust the altitude, click on "**Alt = 2100 ft**"

10.4 Vectors options

You can select here your vectors to final options.



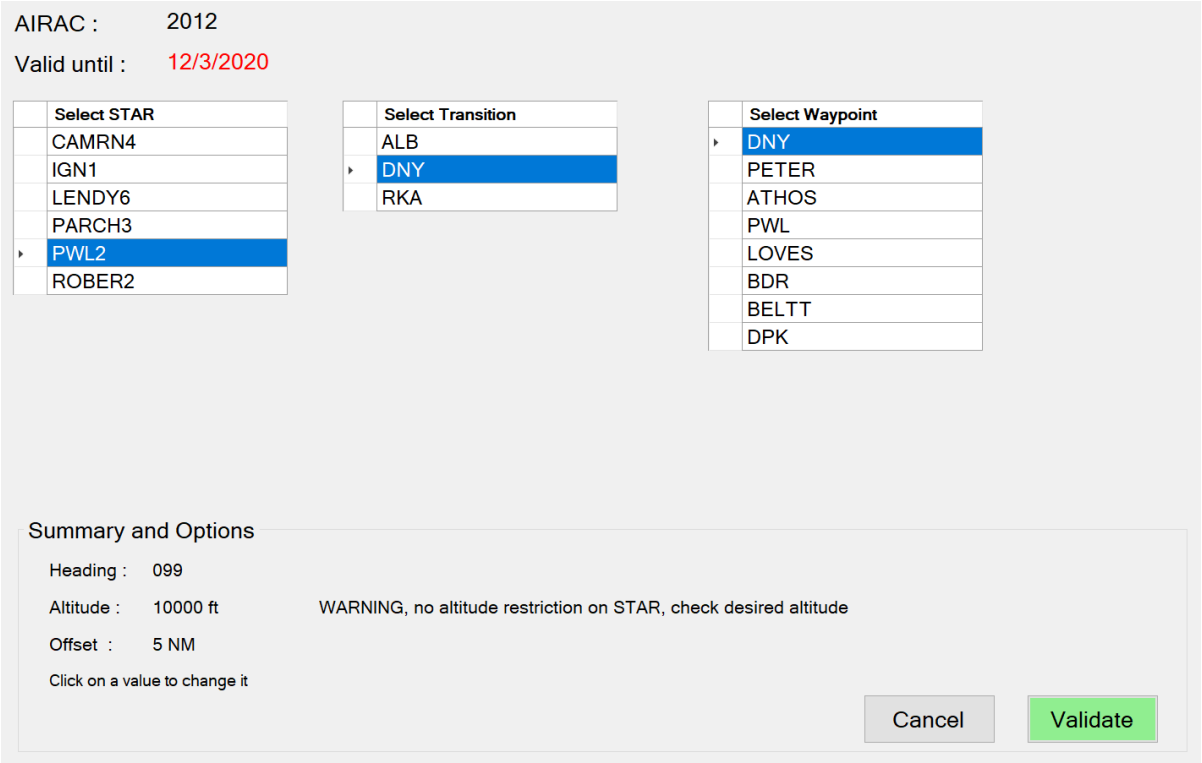
FSiPanel uses default parameters from your setup page as initial values.
To change any value, click on the corresponding text. For example, click **Y = 4 NM** to enter your desired distance.

If you modify the final distance (**X = 8 NM** in the illustration above), FSiPanel will automatically calculate the new ideal altitude. However, you can manually adjust the altitude if desired to better suit your needs.

10.5 STAR options

STAR stands for **Standard Terminal Arrival Route**, a predefined route used by airports to guide aircraft efficiently through the terminal area.
Some STARs include a transition to the final approach, allowing you to fly seamlessly from the first point of the STAR to your Initial Approach Fix (IAF).

FSiPanel includes an outdated STAR database by default. To access the latest STAR routes, update your navigation database using the **Navigraph Hub**.



10.5.1 How to select your STAR:

- **Select your STAR**: Choose the desired STAR from the first column
- **Select a Transition**: If the selected STAR includes a transition, it will appear in the second column. Choose your preferred transition
- **Choose a Waypoint**: Finally, select your desired waypoint in the STAR. This is where FSiPanel will position your aircraft.

10.5.2 STAR custom options

As shown in the illustration above, FSiPanel provides the following options:

- **Heading**: The heading from the previous fix to the selected waypoint
- **Altitude**: The restricted altitude (if applicable) or **10,000 ft** by default
- **Offset**: The default value is **5 NM**, positioning your aircraft 5 NM short of the waypoint

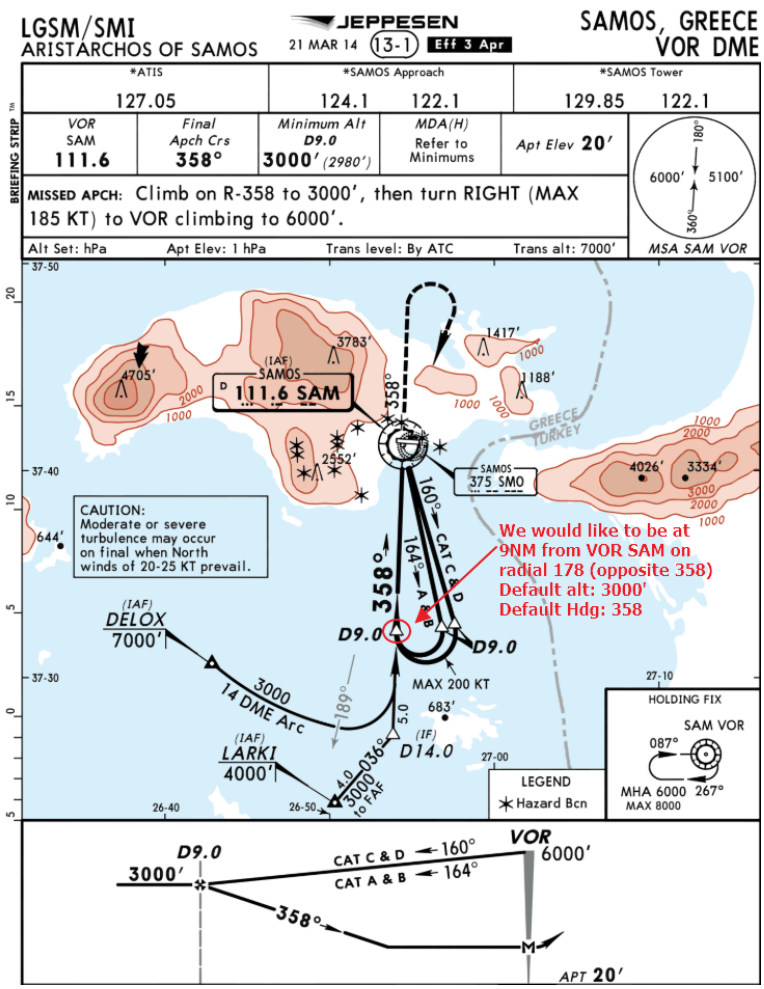
Click on any value to adjust it according to your needs.

10.6 Pilot's Waypoint

Pilots can create a waypoint using one of the following methods:

- **GPS Coordinates**: Enter the specific latitude and longitude.
- **NAVAIDs or Fixes**: Select any VOR, NDB, airway, or terminal fix
- **Radial/Distance**: Define a waypoint based on a radial and distance from a reference point (e.g., LAX, radial 090, 8 NM)

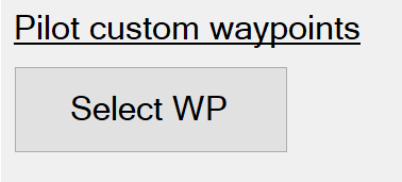
Example: LGSM VOR 09



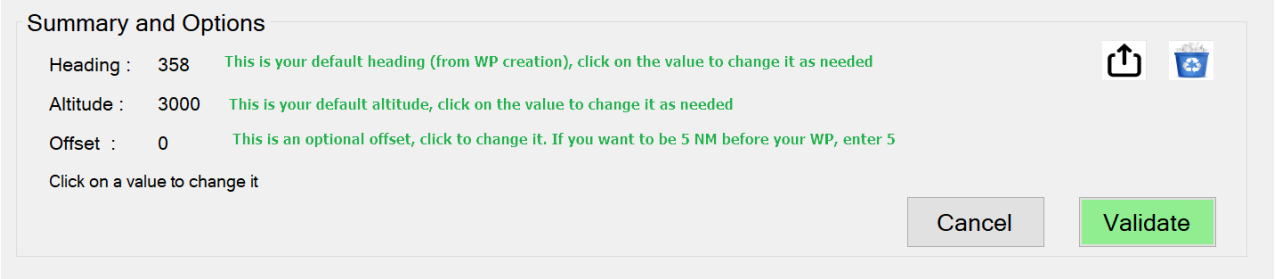
For a detailed tutorial on waypoint creation, please watch the YouTube video linked below:
Waypoint Creation Tutorial

10.6.1 Selecting a Pilot's Waypoint

To select a Pilot's waypoint, make sure to select first the airport and the runway, click on Select FIX and then Select WP.



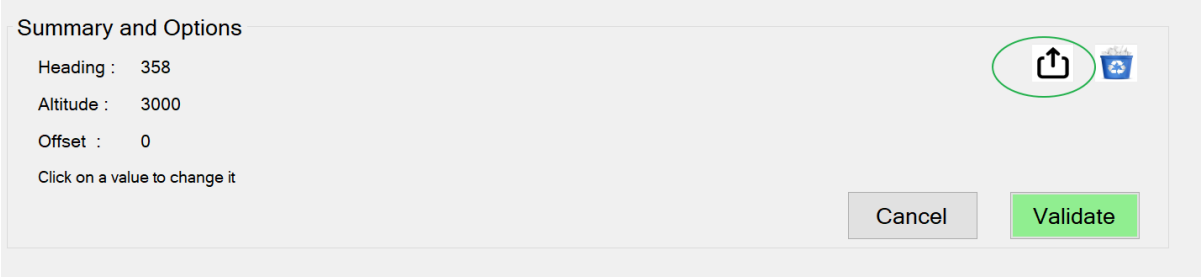
Click on your desired waypoint to display options:



10.6.2 Exporting Pilot's Waypoint

Pilot's waypoint can be exported as .FSP file by clicking on the export button, you can share this waypoint with your friends or the community.

After having selected a waypoint, the export button is displayed on the screen



10.6.3 Importing Pilot's Waypoint

To import a pilot's waypoint file (.FSP), drag and drop it on the main FSiPanel window (Where the runway and the quick position fixes are shown)

10.7 Airwork options

Aircraft will be positioned on final at the desired altitude in a clean configuration, allowing you to practise high altitude air work if needed.

Note: Please make sure your aircraft weight is within limits for the desired altitude or the positioning will fail. An aircraft at maximum take off weight cannot climb directly to its service ceiling altitude..

10.8 Circuit Feature (Advanced Edition)

The Circuit Feature in FSiPanel allows you to practice complete, customizable short flights efficiently. This feature is designed to help pilots enhance their skills by preparing the aircraft and cockpit for a circuit around any airport in the world within a minute. You can manually add failures if needed, and the FMC/MCDU and the entire cockpit will be set up for you.

This feature is available for the following addons (as of the time of publication)

- Fenix A320

Check this tutorial video for an inside look at the Circuit feature.

11 Training Scenario & Airline flights

This feature is available exclusively in the **Advanced Edition** of FSiPanel

Scenarios are updated regularly to cover a wide variety of situations, including different types of failures and standard airline flights, both with and without failures. These scenarios are designed to simulate real-world situations that airline pilots may encounter in their daily operations, offering valuable learning opportunities.

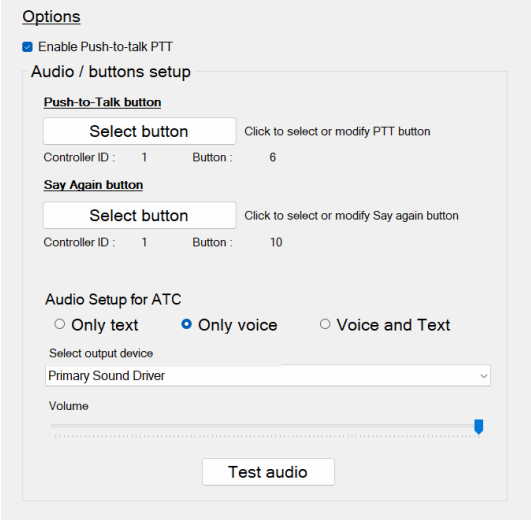
Scenarios are created using the latest AIRAC (navigation database). To ensure accurate route information, it is recommended to fly the scenarios as soon as they are released, starting from the most recent ones. Earlier scenarios may contain outdated routes or FMC/MCDU setups. However, you can still fly them by adjusting the route to align as closely as possible with the lesson plan..

11.1 Setup your audio and Push-to-talk button

The new training scenarios include full ATC audio. To fly these scenarios, you need to configure two buttons on your controller

- Push-to-talk (PTT)
- Say Again

Additionally, you must select where the audio will be played (e.g., headset, main computer speakers, etc.).



Check the quick YouTube tutorial below to see how to setup your system for the new training scenarios.

How to setup your system

11.1.1 Voice Only or Voice and Text

- **Only Voice**: Audio ATC will play without any text displayed on the screen
- **Voice and Text** : Both audio ATC and text instructions will be available

11.1.2 Auto-tune next frequency

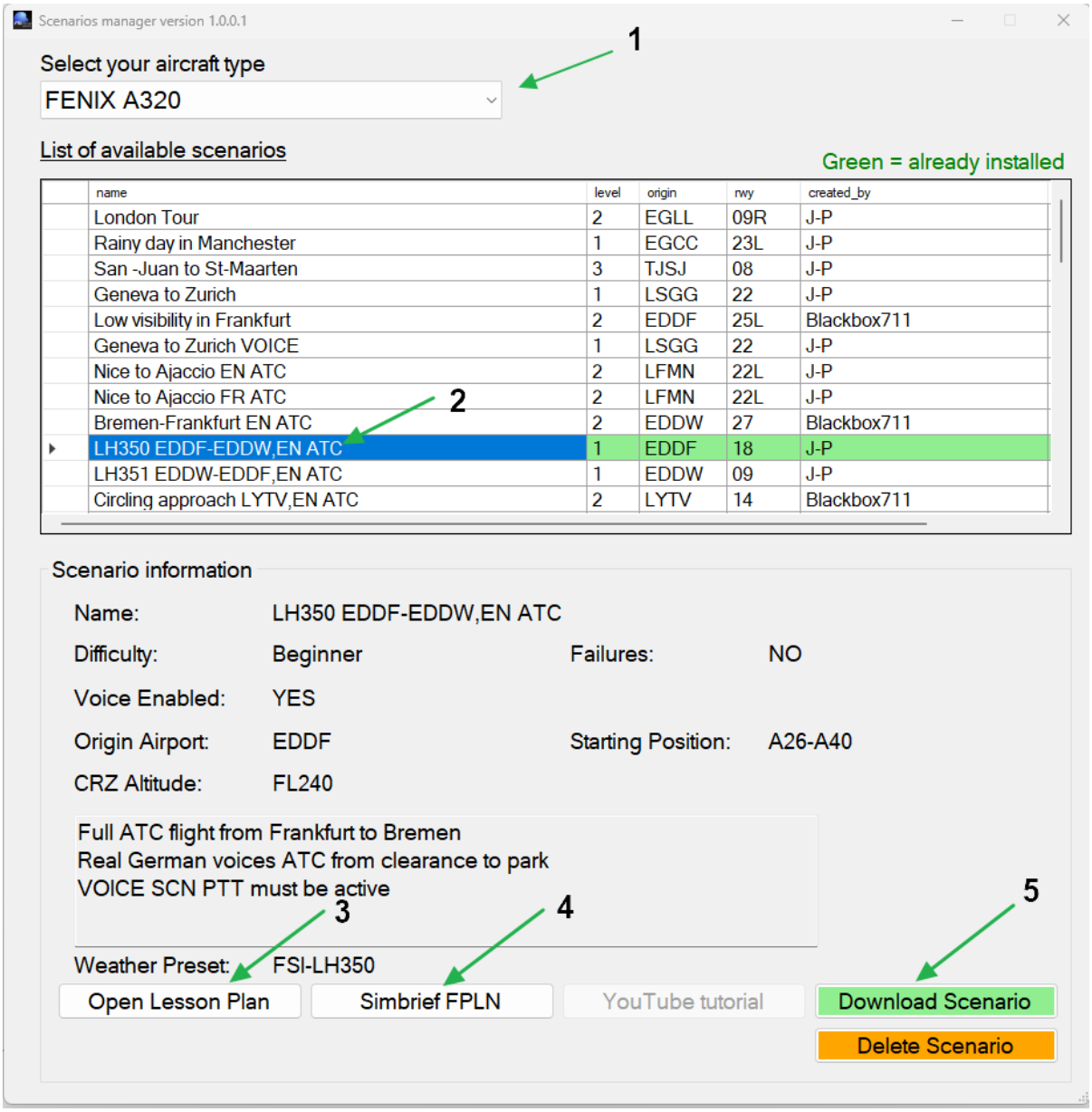
FSiPanel now offers an automatic frequency tuning feature to streamline your flight experience. Enable this option in Setup > Scenarios for effortless frequency management.

11.2 Select and import a training scenario

The first step is to select and import a training scenario.

To choose a scenario, go to SETUP / Scenarios and open the Scenarios Manager.

Make sure to select the correct aircraft in the list to see all scenarios available for this type



Point 1:

- Select or confirm that your favorite aircraft has been selected

Point 2:

- Click on any available scenario to see the information, difficulty, Origin, Destination,etc

Point 3:

- Check the Lesson Plan to get all the details of this scenario

Point 4:

- SimBrief will be opened on your default browser and all the information about your scenario will be populated, check that everything is correct and click on “Generate Flight”, you will then be able to import the routes, Flightplan in your favorite aircraft before flying the scenario.

Point 5:

- Download the scenario to your computer, this will download the ATC voices, weather and the script.
- NOTE: if MSFS 2024 is running when you import a scenario the weather preset will not be available until you restart MSFS 2024, therefore it is better to run the Scenarios Manager with MSFS not running to save time!

11.3 Fly a training Scenario

To fly a training scenario, check the lesson plan for the information you will need.

The steps are:

1. Start MSFS 2024
2. Select the addon
3. Select the airport as per the lesson plan
4. Select the start position as per the lesson plan (on runway or most probably a precise gate on the tarmac)
5. Select the correct weather preset and set MSFS time as per the lesson plan instructions
6. Click on FLY and let the simulator load

11.3.1 Once the simulator is ready

If your scenario starts at a gate, make sure your aircraft is in a AC powered State (APU or GPU) and engines are OFF.

If your scenario starts on a runway, ready to depart, make sure the aircraft has engines running, IRS aligned.

Then do the following Steps:

1. In MSFS 2024, open FSiPanel in-game Module from the Toolbar
2. Start FSiPanel 2024, check that the correct airport has been detected as well as your aircraft.
3. Click on training scenario button on the main screen
4. Select the training scenario

Options :

- Disable failures : Any failure in the scenario will not be triggered BUT you will still have ATC instructions as if you had the failure, this will allow you to fly it without stress for the first time.
- Load FMC/MCDU : If you untick this option, FSiPanel will let you do the cockpit preparation by yourself, you can use the SimBrief import, nothing will be prepared by FSiPanel.

When all set, click on Start Scenario!

11.3.2 Flying the Scenario

FSiPanel will start working on your aircraft, if the scenario is for a fully supported aircraft, the MCDU / FMC will be programmed, do not interfere with any FSiPanel inputs until you receive the message “Scenario Starts now, ATIS available on COM2 123.45”.

At this stage, click on the message to acknowledge and wait a few seconds, you should hear a cabin chime confirming that the scenario has started.

11.3.2.1 ATIS

During a scenario, you can dial 123.45 on COM2 at any time to get the ATIS, if you are at the gate, you will get the departure ATIS, if you are in the air and within range, you will get destination ATIS to prepare your approach, should you divert and follow the ATC instructions, you will get the alternate ATIS.

11.3.2.2 Calling ATC to start your flight

When ready, make sure the correct frequency is dialed on COM1, if not ATC will not reply to your communication, you can see later in this chapter how to find the next expected frequency on FSiPanel main screen during a scenario.

Call ATC to request your clearance, enjoy your scenario!
Always readback ATC instructions, this will close the ATC text message if option enabled or play a radio acknowledge sound telling you that ATC has received your readback.

11.3.2.3 Multiple Choices

ATC might give you several options during a scenario like for example : Can you accept intersection B for departure ?

In that case, the options will be printed on your MSFS screen, you do NOT need to readback this instruction with your PTT button, instead click on the desired option on your MSFS screen to validate your choice. ATC will give you next instruction based on your choice.

11.3.2.4 Say again

If you are flying without printed instructions on your screen and you're not sure to have understand the instructions correctly, do not readback using your PTT button, instead use your SAY-AGAIN button, ATC will repeat the instructions.

If you use the Say Again button another time, ATC will repeat again the instructions and the instructions will also be printed on your MSFS screen in order to make sure you can comply with instructions

11.3.2.5 Compliance is the key factor

Always comply with ATC instructions, do not shortcut the route, climb or descend without ATC instructions, for IFR training you may be asked to fly a specific radial, make sure to comply.

If you are not getting further instructions during a scenario, you most likely did a navigation mistake and FSiPanel is waiting for a trigger that will never come, therefore it is crucial to follow and comply precisely with ALL ATC instructions!

Always comply with the instructions on screen and only then click on the acknowledge button. Remember to always fly the aircraft first and to prioritize your tasks to keep the aircraft safe at all time!

Scenarios will be added regularly for the compatible addons, if you have suggestions for the scenarios, please use the forum to post your ideas! www.fsipanel.com/forum

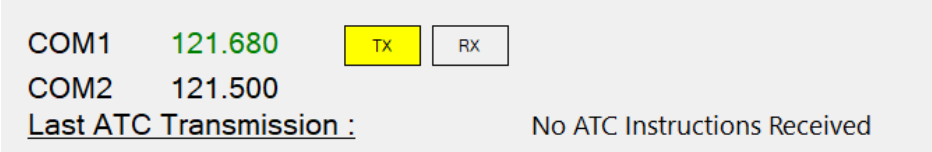
Note: The failure button on the main screen of FSiPanel will be showing Training in green when a scenario is in progress, if the button is back to normal (Failures), your scenario is over.

11.4 Communication during a training scenario

During a training scenario, FSiPanel will act as ATC controllers, giving you all the instructions required to fly the mission successfully.

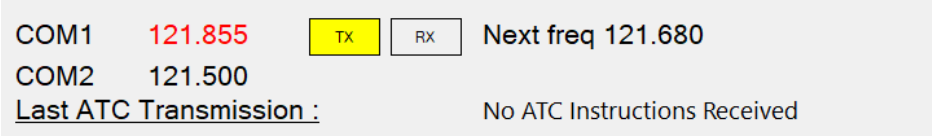
On FSiPanel main screen, you will have a summary of the communication status.

Example 1: shows a scenario where COM1 is correctly set and ATC is expecting a call



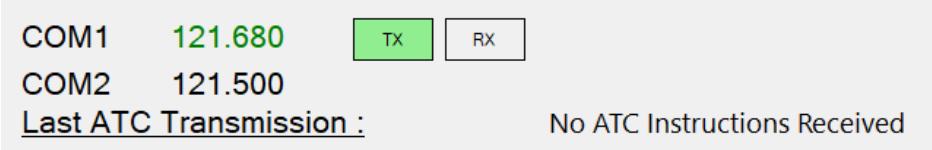
- Com1 is set to the correct expected frequency, shown in Green (121.680)
- TX button is amber, this means that ATC is expecting a call from the pilot

Example 2: Shows incorrect frequency setting with guidance on what the pilot should do next.



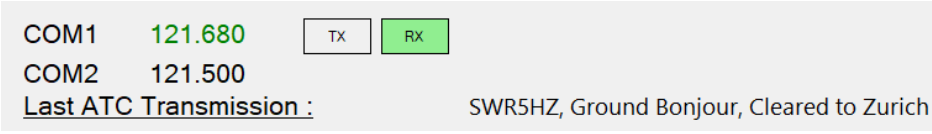
- Com1 is not tuned correctly, shown in Red (121.855)
- ATC expects you to switch to the next frequency (121.680)
- TX buton is amber, ATC is expecting a call from the pilot.

Example 3: Indicates correct frequency and that the pilot is transmitting to ATC



- Correct COM1 frequency, shown in green
- TX button is green, Pilot is transmitting to ATC

Example 4: ATC transmitting an instruction and displays the last ATC instruction received



- ATC is transmitting an instruction, RX button in green
- Last ATC instruction is now shown as well for your reference.

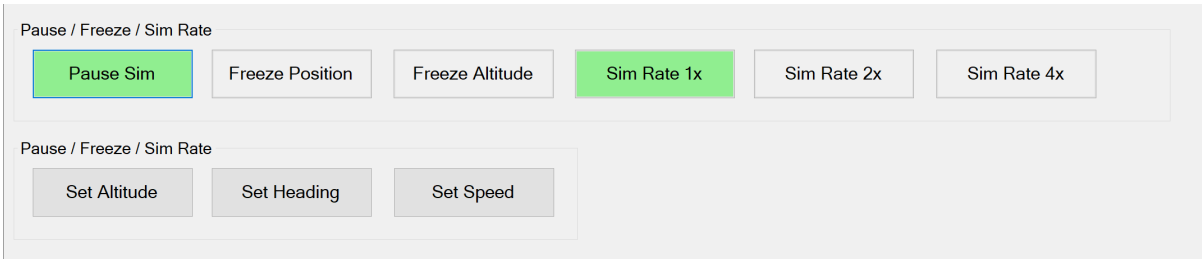
12 Setting your weather

12.1 MSFS 2024

Please set your weather directly in MSFS 2024 before flying your approach.
If in the future third party companies will release weather addons for the weather, we will be working on integrating them in the program just like in P3D / FSX versions.

13 Simulator Controls

You can control some of the simulator features from FSiPanel Sim Controls menu.
Any active mode will be displayed in green



In the above illustration, simulator is on pause and simulation rate is set to normal speed (1x)

On this panel, you can immediately change aircraft Altitude, heading and speed by using the provided functions, please note that this will affect your aircraft, use with caution only if required. For example you would like to quickly climb to 20’000ft, make sure speed is good and then select 20000ft with Pause mode ON. In the simulator, set your autopilot modes as required and release pause to take controls.

14 Flows (advanced edition)

FSiPanel can act as your first officer and do the cockpit flows for you while you are busy taxiing or flying your aircraft. The following flows are available:

- Before start
- After start
- Taxi procedure
- Line up
- After takeoff
- After landing (also on standard edition)
- Shutdown

To use this panel, you need to setup a joystick controller or a keyboard keys combination in SETUP / Options.

The following aircraft are compatible:

- PMDG737, PMDG 777, TFDi Design MD11, iniBuilds A320 NEO, Fenix A320, IniBuilds A300 & A310, Headwind A330 NEO, FlyByWire A320, iFly 737 MAX8

To use the flows, press the designated button on your controller or the key combination on your keyboard to open the flows menu. From there, you can initiate the desired flow. For detailed information on the included flows, trigger conditions, and actions performed by FSiPanel, please refer to the flows user manual of your aircraft located in the FSiPanel directory under “Cockpit Flows Manuals”.

14.1 Repeat training

On the after landing flow, you will also have the option to select “Repeat training”, This feature repositions the aircraft to the same location you just flew from, which is particularly useful when flying in VR. It allows you to repeat the approach without needing to remove your headset.

15 Snapshot Feature

This feature is only available on PMDG 737, PMDG 777, Maddog MD82, Fenix A320 and iFly737 MAX8

As in a real Level-D simulator, FSiPanel can save and reload so called snapshot.
A snapshot is a picture of the actual aircraft position and settings that can be reloaded by the instructor to repeat a particular scenario

Fenix A320:

- only snapshots starting at parking position or ready for departure can be taken.
- Check this tutorial to take snapshot at parking position with engines off
- Check this tutorial to take snapshot on the runway, ready for departure

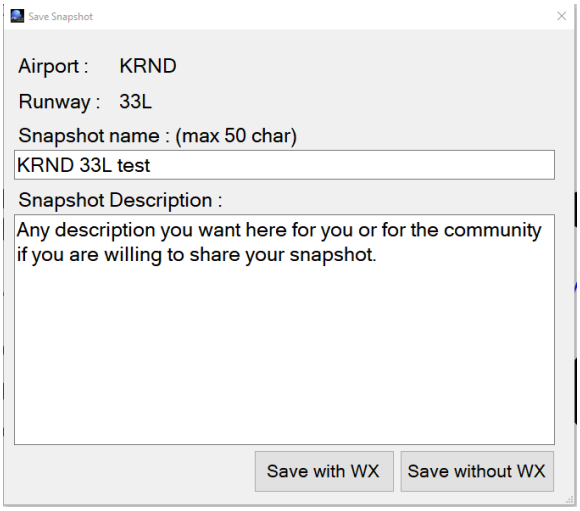
Note: Due to SDK limitations for some addons, snapshot feature is not available for all aircraft, if the snapshot feature is not available, the buttons will be disabled.

15.1 Take a snapshot

To take a snapshot, the following conditions must be met:

- Aircraft shall be steady on heading, speed and altitude.
- Autopilot shall be engaged in ALT HOLD and HDG HOLD
- Autothrottle shall be engaged in SPD HOLD

Once ready to take a snapshot of your actual flight, click on “Take Snapshot” button, the simulator will freeze during the process and a message will confirm that a snapshot capture is in progress.



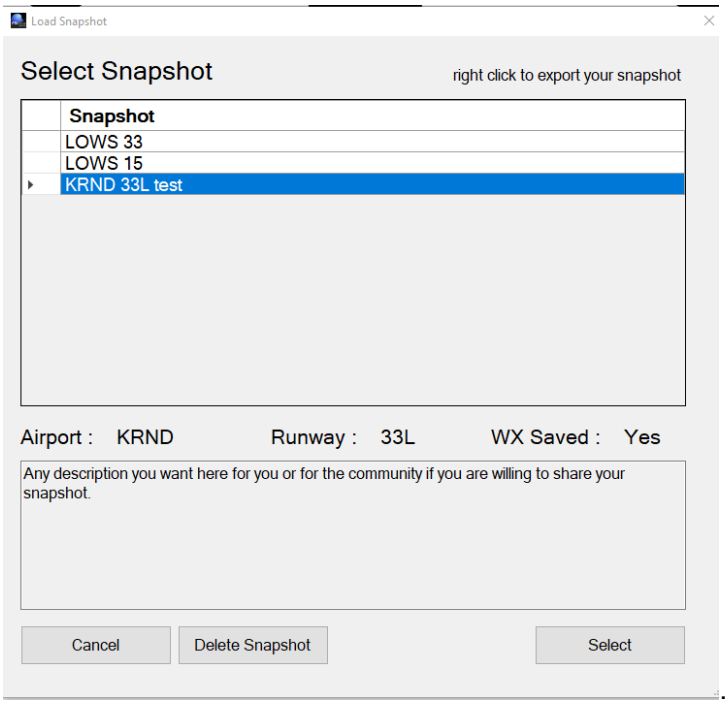
15.1.1 Snapshot Description

Enter here any description about the snapshot you are taking

Note: Make sure that the right FMC scratchpad is cleared when saving a snapshot as FSiPanel will use it to save your cockpit panel state.

15.2 Load a Snapshot

Make sure you have loaded a compatible aircraft, only compatible snapshots will be listed (you cannot load a PMDG737 on another addon)



By clicking on a snapshot, you will see the airport, runway and if the weather has been captured.

Weather engine is not yet implemented in MSFS due to SDK limitations

15.2.1 Delete Snapshot

Snapshot will be deleted from your database

15.2.2 Select

Select this snapshot for your training

15.2.3 Share your Snapshot

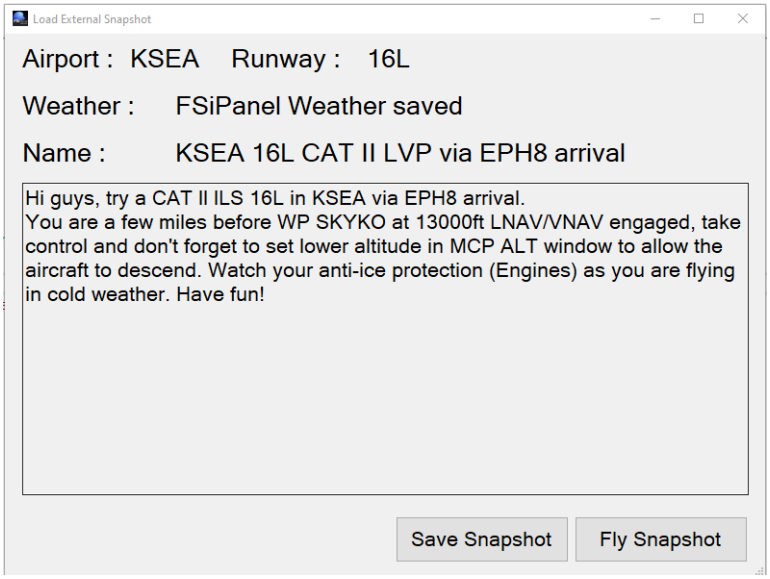
Right click on a snapshot to export it as a .FSI file.

15.3 Importing a Snapshot

With this feature, you can import a snapshot downloaded on the forum or shared by the community.

Make sure to have the right aircraft type loaded in MSFS before importing your snapshot.

On FSiPanel main window, drag and drop your .FSI file over the runway symbol, if the snapshot is compatible, you will be given some options to use it.



15.3.1 Save Snapshot

Snapshot will be saved in your database, you will not to import it anymore for further training.

15.3.2 Fly Snapshot

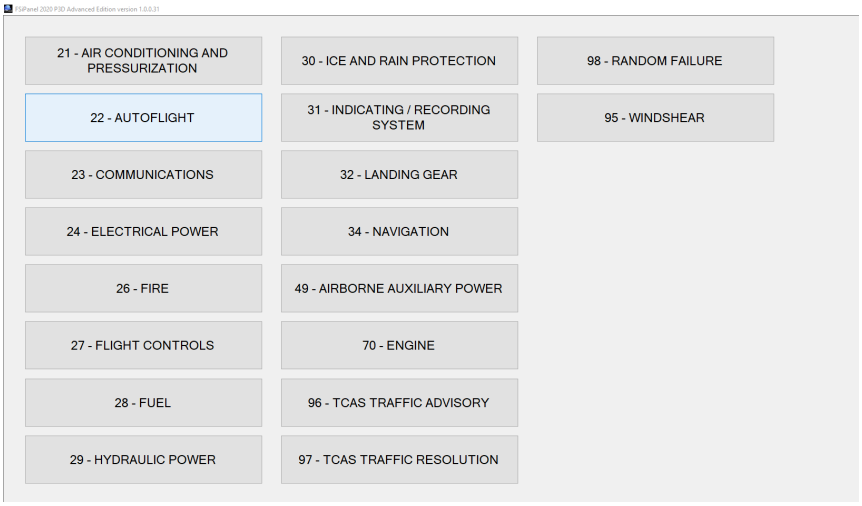
Fly the snapshot.

16 Adding failures to your training

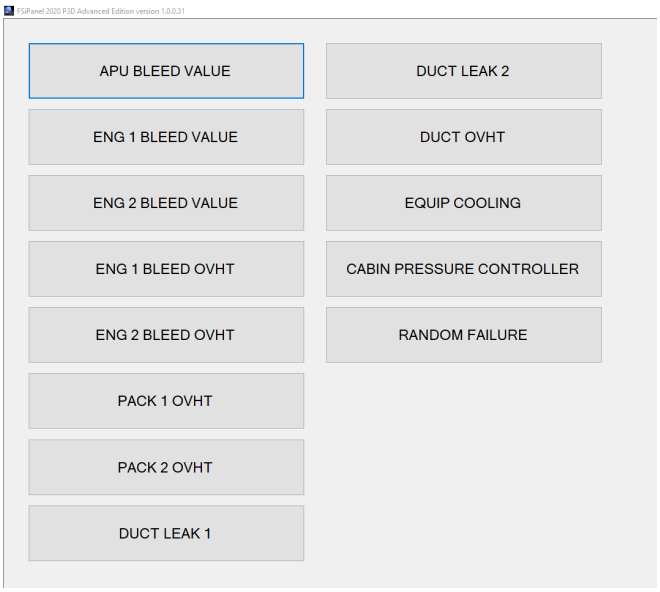
Available on advanced edition only, Standard edition can simulate TCAS event.

A quick tutorial video shows you how to use this advanced failure panel.
https://youtu.be/C62Oymx_vCc

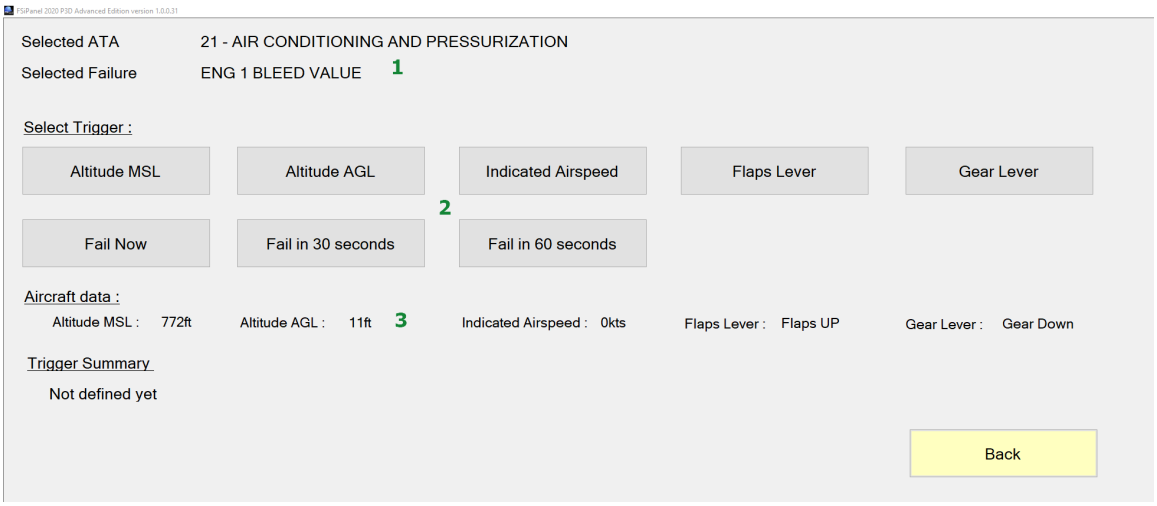
All available failures are classified by systems ATA, select your desired system



Then all failures will be listed for the selected ATA



After having selected your desired failure, you will have to define the trigger condition



Section 1 shows a summary of your selected failure

Section 2 shows the various trigger options

Section 3 shows actual aircraft parameters such as FLAPS, GEAR, ALTITUDE, SPEED

16.1 Trigger conditions:

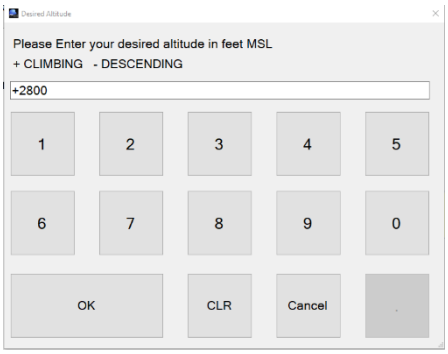
16.1.1 Fail now

Failure will be activated immediately

16.1.2 Fail in 30 or 60 seconds

Failure will be activated after 30 or 60 seconds.

16.1.3 Altitude MSL (Mean see level)



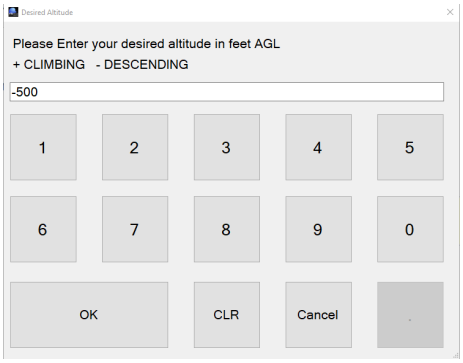
Enter your altitude as below:

+2800 means aircraft climbing through 2800ft MSL

-2800 means aircraft descending through 2800ft MSL

You can type the + or – sign at the beginning or at the end of your altitude input

16.1.4 Altitude AGL (Above ground level)



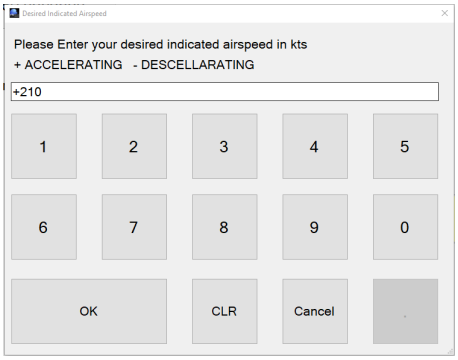
Enter your altitude as below:

+500 means aircraft climbing through 500ft AGL

-500 means aircraft descending through 500ft AGL

You can type the + or – sign at the beginning or at the end of your altitude input

16.1.5 Indicated Airspeed

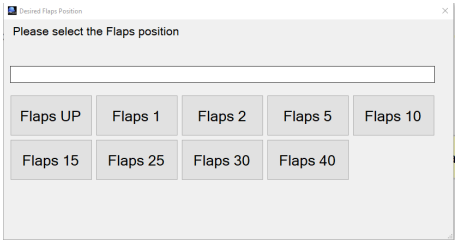


Enter your speed as below:

+210 means aircraft accelerating through 210kts

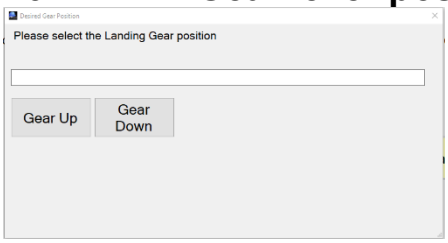
-80 means aircraft decelerating through to 80 kts.

16.1.6 Flaps lever



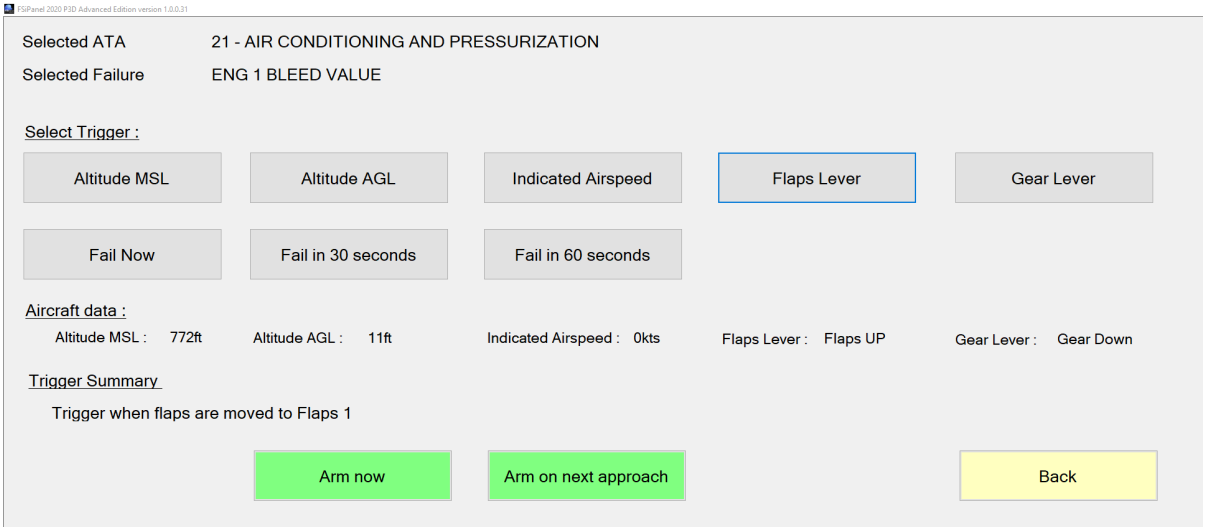
Failure will be triggered when Flaps are moved to the selected position

16.1.7 Gear lever position



Failure will be triggered when gear is moved UP or DOWN as selected

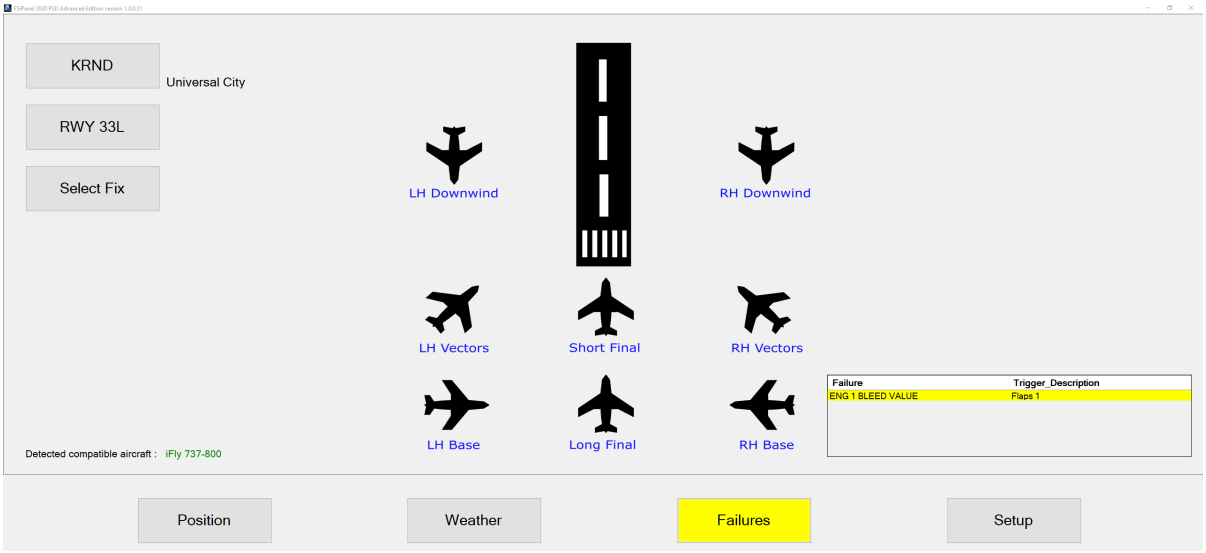
16.1.8 Confirm the selected failure and trigger condition



You can now review your failure under trigger summary, in the example above, ENG 1 BLEED VALVE will fail when flaps are moved to FLAPS 1 position.

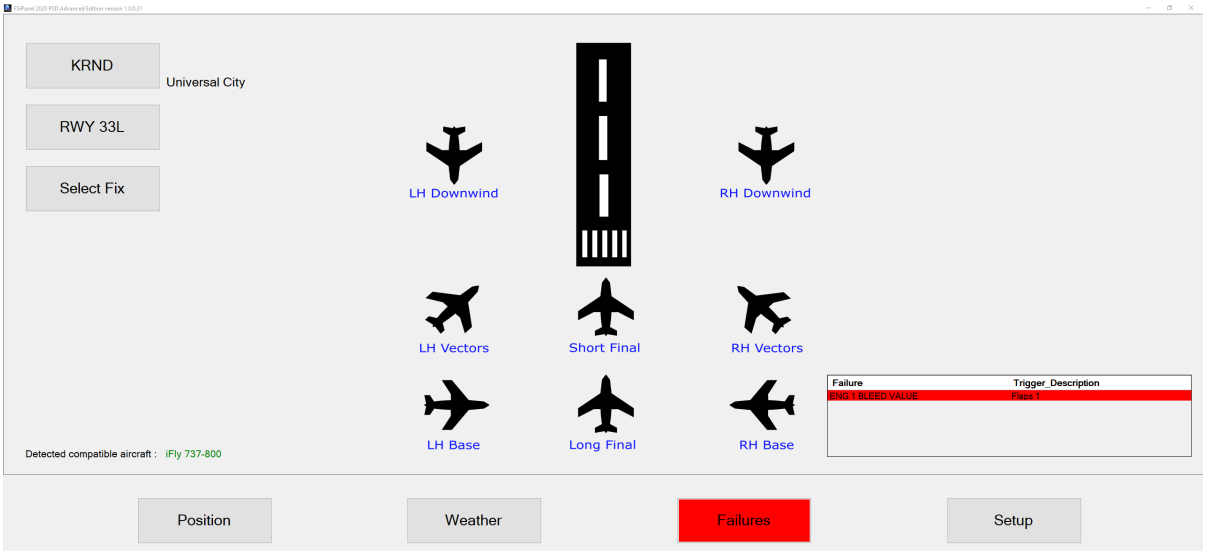
- Arm Now — Failure will be armed (not executed) immediately
- Arm on next approach — Failure will be armed when released on your next app

16.2 Failure summary



On the example above, ENG 1 BLEED VALVE is armed (amber) and you can see that the trigger condition is FLAPS 1.

Note that Failures button is amber as at least one failure is armed.

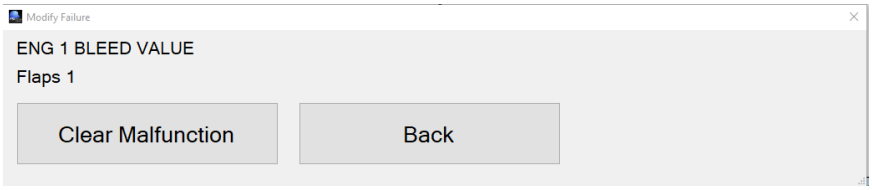


Flaps have been moved and failure is now active showing in RED

Failures button is also red as at least one failure is active.

16.2.1 Clear a failure

To clear a failure, click on the desired failure on the failure summary.



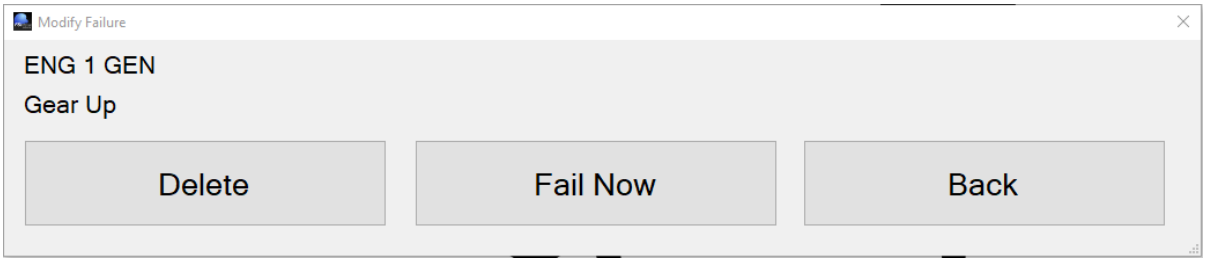
Note: You can also clear a failure from the failure panel, the color code is as below:

- Red Failure is active
- Amber Failure is armed
-

You can also clear a failure from its system page on the main failures panel.

16.2.2 Activate an armed failure

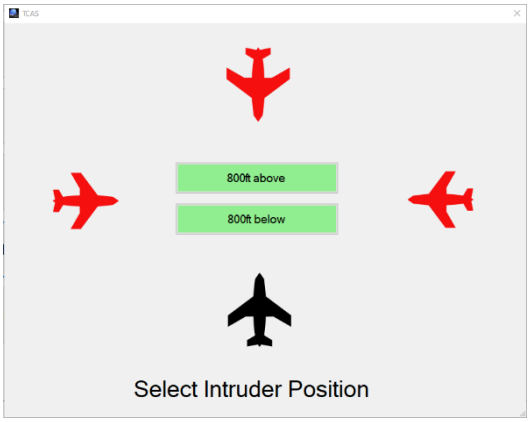
If for any reason you want to activate a failure before the trigger condition is met, click on the desired failure on the failure summary and click on Delete button



Note: You can also activate an armed failure from the failure panel, the color code is as below:

- Yellow Failure is armed

16.3 TCAS Advanced edition



Select the position of the intruder and the altitude offset, above or below your actual altitude.

Note: This example shows a traffic advisory, if you select a traffic resolution, the altitude offset is not an option as the intruder will fly at the same altitude as your aircraft.

Note: Make sure to fly straight and level when creating a TCAS scenario

16.4 Takeoff training (advanced edition)

This feature allows you to train decision making during the takeoff roll.
See a tutorial here

- Go to SETUP / Scenarios and install Takeoff training in IBIZA DRY or WET runway.
- Load your aircraft engines running in LEIB runway 24 and start the scenario

FSiPanel will prepare your cockpit for a flight from Ibiza to Barcelona and you will be cleared for takeoff.
This scenario will never be the same, you can fly it as many times as you want, the failure and time at which it occurs will always be random, making it impossible to prepare, you will be confronted to the same situation as a real crew taking off for a normal flight and having an unexpected failure.

The failure can occur before or after V1 and it can be an easy failure up to an engine fire.
ATC will guide you for a safe return should you get airborne.

Choose the Difficulty Level(s) of Failures to Integrate into the Random Selection Process:

When ready for the scenario you will be asked to choose which failures to include for your training.

Note: You have the flexibility to select one or multiple levels of difficulty based on your training preferences and skill level. Feel free to customize your training experience by choosing from the following options:

Light: Easy Failures
In this level, you will face relatively straightforward failures that won't pose significant challenges. They may require minimal actions or basic checklist procedures.

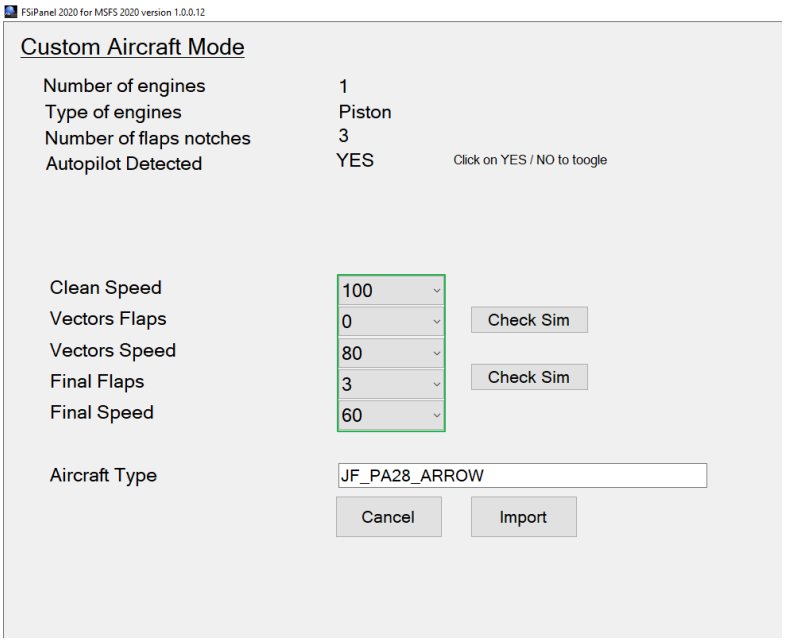
Moderate: Failures Requiring Attention and Checklist Procedures
Selecting this level introduces failures that demand more attention and actions from the pilot. You may need to perform specific checklist procedures to handle these situations adequately.

Severe: Challenging Malfunctions Requiring Precise Actions
If you opt for this level, be prepared to face severe malfunctions that will demand precise and skillful actions to safely regain control of the aircraft and handle the emergency.

17 Non Supported aircraft with FSiPanel

FSiPanel 2024 can try to import any aircraft not officially supported.
WARNING: There is no guarantee that this feature will work on all aircraft, some are more complexes than others and need more actions to be positioned correctly.

When launching FSiPanel with an unknown aircraft, you will automatically be directed to the custom Aircraft mode as shown below:



The first part contains what FSiPanel has detected, in the example above for the JustFlight PA28. 1 engine, Piston engine, 3 notches of flaps and Autopilot is available.

The second part shall be configured as per your preferences:

Configuration	Value
Clean Speed	Desired speed in clean configuration (Gear up, flaps up)
Vectors Flaps	Desired Flaps notch on vectors (0 = clean, max value = full extended)
Vectors Speed	Desired speed in vectors
Final Flaps	Desired Flaps notch on Final (0 = clean, max value = full extended)
Final Speed	Desired Final Speed
Aircraft Type	Type of aircraft imported

17.1 Autopilot or not?

If using autopilot, the aircraft will be positioned and autopilot set to maintain heading and altitude. If this action fails, you can try without Autopilot modes.

17.2 Update Aircraft Configuration / Speed

On main FSiPanel screen, pilot can right click on the aircraft type to change the desired speed and flaps configuration if so needed.

17.3 Tutorial video

See below a tutorial video showing how to import the JustFlight PA28 and the FlyingIron Spitfire in FSiPanel 2020

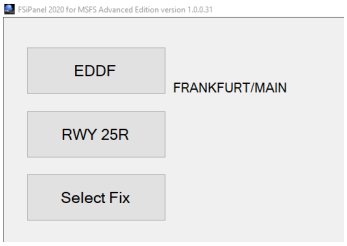
https://youtu.be/nyEj_gsG8A8

18 Rate my landing

18.1 Aircraft airborne

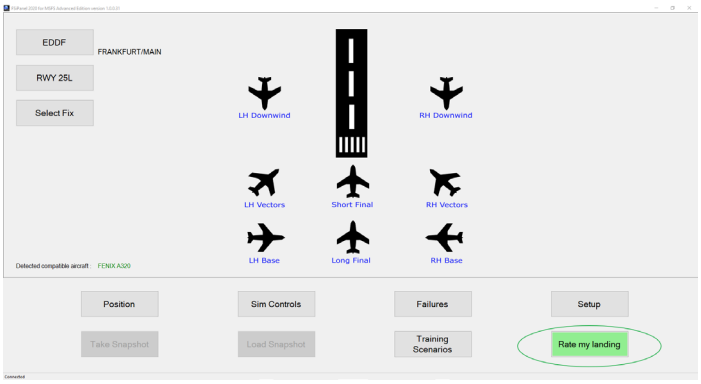
This feature allows you to get a landing report even when FSiPanel did not position your aircraft. Please follow the steps below to enable this feature.

- Make sure your aircraft is within 100NM of your destination
- Start FSiPanel
- Select the airport ICAO
- Select your landing runway



Warning : always reselect the runway, even if automatically detected by FSiPanel!

If all the conditions are met, you will see a green button “Rate my landing” on FSiPanel main screen, click this button and FSiPanel will monitor your flight, issue a landing report and execute the after landing flow if desired.



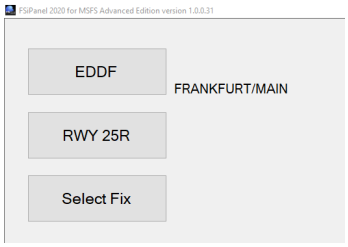
Note: Clicking a second time on the button will cancel the flight monitoring and no landing report will be issued.

18.2 Aircraft on ground

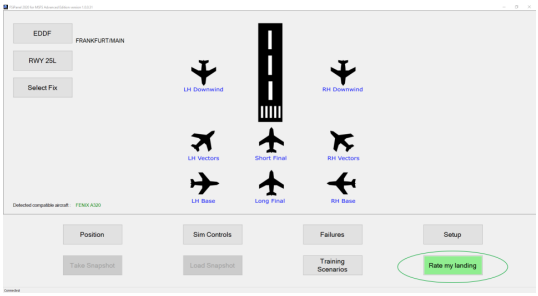
This feature will allow you to fly from your origin to your destination with FSiPanel monitoring your flight. Upon landing at destination, you will get a landing report and after landing flow if initiated and option enabled in the setup tab of your preferred aircraft.

To use this feature, do the following before starting your flight:

- Have your aircraft loaded anywhere at your origin airport
- Start FSiPanel
- Change Airport to your destination airport
- Change Runway to your desired landing runway at destination



The button “Rate my landing” should now be visible at the bottom right of your screen, click on it to arm the landing report.



It will change to “Monitoring armed”, from now on you can go to your sim and fly!

Note: Should you decide to change destination and or runway, do not forget to update FSiPanel as early as possible.

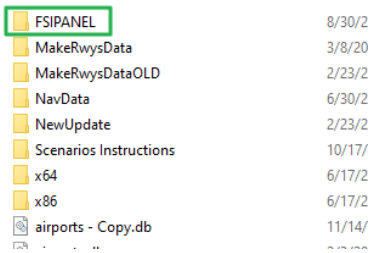
19 Manual WASM module installation

If FSiPanel is unable to automatically install its WASM module in your community folder, you can use the following procedure to install it manually.

If you received the message to check user manual for manual module installation, you are at the right place, FSiPanel has created a folder “FSIPANEL” in your FSiPanel installation directory.

You just need to copy that folder in your community folder and when done **don’t forget to restart MSFS and FSiPanel!**

FSiPanel directory



Copy this folder to your community folder

20 Fenix A320 Hot brake reset

When flying multiple approaches, your brake temperature can exceed limits and you will get an EICAM message to cool down your brake before next approach.

To clear that message proceed as follow on Captain MCDU.

Press key “MCDU MENU” and select MAINT and then FAILURES

Finally click on key CLR until scratchpad shows “CLR” and click on the LSK for BRAKE HOT TEMPERATURE, once done your brakes are ready for next approach!

21 End-user license agreement EULA

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