

A350 ADVANCED

RAAS / QAR BLACK BOX

Installation and User Guide

Final installation and user guide covering clean installation, folder layout, automatic and manual setup, first launch, updates and troubleshooting.

For Aerofly FS 4 - Airbus A350-1000

A350 Advanced builds on the excellent Aerofly FS 4 A350 with deeper system behaviour, realistic failure consequences and maintenance features, with the long-term goal of delivering a study-level simulation experience.

Contents

Section	Title
1	Before you begin
2	How the package is arranged
3	Automatic installation
4	Manual A350 Advanced installation
5	Installing the Advanced mod files
6	RAAS/QAR and Advanced GUI location
7	First launch and installation check
8	Updating or reinstalling
9	Common installation mistakes
10	Guide coverage and release status

1. Before you begin

A350 Advanced is installed as a separate user aircraft. The original Steam aircraft remains untouched and acts as the clean source used to build the Advanced aircraft folder.

Important

Do not install the Advanced replacement files directly into the Steam aircraft folder. Steam updates or file verification may overwrite them, and a damaged installation becomes harder to recover.

Requirements

- A working, clean Aerofly FS 4 A350-1000 installation.
- The complete A350 Advanced download package.
- Permission to copy files into your Windows Documents folder.
- Aerofly FS 4 closed while aircraft and system files are being copied.

Recommended backup

Before updating an existing Advanced installation, rename the current aircraft folder so it can be restored quickly. Example:

```
C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4\addons\aircraft\A350_1000_adv_BACKUP
```

2. How the package is arranged

The download is designed to mirror the Aerofly FS 4 folder inside Windows Documents. It contains only the files added or replaced by A350 Advanced, RAAS/QAR and the combined control panel.

Aerofly FS 4\

- addons\aircraft\a350_1000_adv\ Advanced aircraft replacement files
- addons\a350_advanced\ Advanced / RAAS GUI files
- raas\ RAAS/QAR program, audio and support files
- external_dll\ Aerofly bridge files, when included

Why a clean stock copy is required

The Advanced download does not need to duplicate every large stock model, texture, cockpit and livery file. A clean copy of the Steam A350 supplies those base files; the Advanced package then replaces the files that contain the modified aircraft definition, systems, sounds and support logic.

3. Automatic installation

The recommended installation method is the supplied automatic installer. It can be run from any folder after the complete download has been extracted.

Install_A350_Advanced.bat
 Install_A350_Advanced.ps1
 Aerofly FS 4\
 addons\
 raas\
 external_dll\

Running the installer

1. Close Aerofly FS 4.
2. Extract the complete download to any normal writable folder.
3. Keep the BAT file, PowerShell script and supplied Aerofly FS 4 folder together.
4. Double-click Install_A350_Advanced.bat.
5. The installer will locate the clean Steam A350 automatically. If it cannot, select the clean Steam aircraft\a350_1000 folder when prompted.

What the installer does

- Finds the user's Windows Documents folder automatically.
- Finds the clean Steam A350-1000 from common Steam locations and Steam library folders.
- Creates a timestamped backup of any existing a350_1000_adv installation.
- Copies the complete clean stock A350 into Documents\Aerofly FS 4\addons\aircraft\a350_1000_adv.
- Checks that the download contains Advanced replacement versions of a350_1000.tmc and a350_1000.tmd.
- Deletes only the copied stock a350_1000.tmc and a350_1000.tmd from the new Advanced folder.
- Overlays the supplied Advanced aircraft, GUI, RAAS/QAR and bridge files.

- Verifies the main aircraft and support folders after installation.
- Never edits or deletes files inside the original Steam A350 folder.

Why the stock TMC/TMD files are removed

Yes, the installer removes the copied stock a350_1000.tmc and a350_1000.tmd, but only after confirming that the extracted package contains the Advanced replacements. This prevents the stock definitions from remaining active and avoids leaving the aircraft without replacement files if the download is incomplete.

Manual installation

Use the following method only when the automatic installer cannot be used or when manually rebuilding a development installation.

4. Manual A350 Advanced installation

1

Close Aerofly FS 4

Exit the simulator completely before copying or replacing aircraft files.

2

Open the clean Steam A350 folder

The default Steam path is shown below. A custom Steam library may use a different drive.

C:\Steam\steamapps\common\Aerofly FS 4 Flight Simulator\aircraft\a350_1000

3

Copy the complete a350_1000 folder

Copy the whole folder, including all livery, cockpit, cabin, model, texture and sound files.

4

Paste it into the user aircraft folder

Paste the copied folder into Documents\Aerofly FS 4\addons\aircraft.

C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4\addons\aircraft

5

Rename the copied folder

Rename the copied stock folder to a350_1000_adv. This keeps it separate from the stock aircraft and matches the Advanced package layout.

C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4\addons\aircraft\A350_1000_adv

Stock source folder example

The source folder should be the complete clean Steam A350-1000 folder, not a partial selection of files.

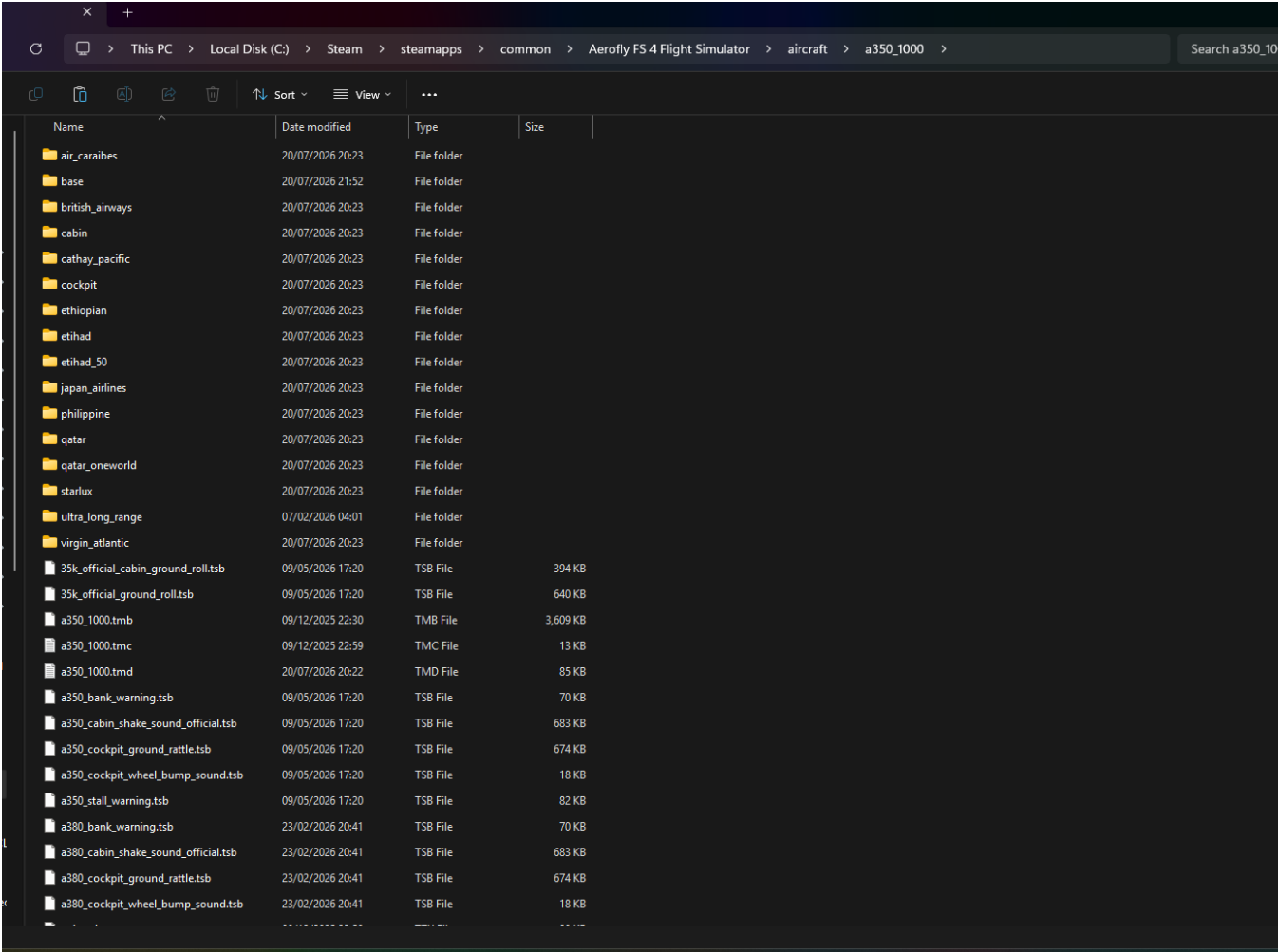


Figure 1. Example clean Steam A350-1000 folder used as the installation source.

5. Installing the Advanced mod files

6

Open the downloaded Aerofly FS 4 folder

The download contains a folder named Aerofly FS 4 with the required subfolders already arranged underneath it.

7

Copy the downloaded Aerofly FS 4 folder into Documents

Copy it to your Windows Documents folder and merge it with the existing Aerofly FS 4 folder when

Windows asks.

C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4

8

Allow the Advanced files to replace the stock copies

When prompted, choose Replace the files in the destination. This applies the Advanced aircraft definition and system files to a350_1000_adv while leaving the original Steam aircraft untouched.

Critical aircraft files

The copied stock aircraft includes the original a350_1000.tmc and a350_1000.tmd. These must not remain as the active stock versions inside the Advanced aircraft folder. The Advanced package should replace them with its supplied versions using the same required filenames.

The two main files are:

- a350_1000.tmc - aircraft identity, limits, loading data and simulator aircraft-selection information.
- a350_1000.tmd - aircraft model and graphics definition used by the Advanced aircraft.

Depending on the release package, additional Advanced files such as system.tmd, system_normal.tmd, system_running.tmd, soundmod files and GUI-controlled variants will also be copied into their correct locations.

6. RAAS/QAR and Advanced GUI location

The combined A350 Advanced and RAAS/QAR control-panel folder is installed separately from the aircraft.

```
C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4\addons\A350_advanced
```

This folder contains the Advanced launcher/GUI and its supporting files. The RAAS/QAR program files are installed under the main Aerofly FS 4 Documents folder:

```
C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4\raas
```

Bridge files required for communication with Aerofly FS 4 may also be supplied under:

```
C:\Users\<YOUR USER NAME>\Documents\Aerofly FS 4\external_dll
```

Do not place the GUI inside the aircraft folder

The A350_advanced GUI folder belongs directly under Documents\Aerofly FS 4\addons. The aircraft itself belongs under Documents\Aerofly FS 4\addons\aircraft\A350_1000_adv.

Expected final folder layout

Folder	Purpose
Documents\Aerofly FS 4\addons\aircraft\A350_1000_adv	Complete copied aircraft plus Advanced replacements
Documents\Aerofly FS 4\addons\A350_advanced	Advanced and RAAS control panel
Documents\Aerofly FS 4\raas	RAAS/QAR black-box application and audio
Documents\Aerofly FS 4\external_dll	Aerofly bridge, when included

7. First launch and installation check

1

Start the Advanced control panel

Run the supplied A350 Advanced / RAAS GUI from the A350_advanced folder.

2

Select the desired dispatch or startup state, including engines-off, engines-running, maintenance and configured failure options.

3

Apply or launch

Use the GUI's normal apply/launch workflow so the correct system variant is copied into the Advanced aircraft folder.

4

Start Aerofly FS 4

Select the separate A350 Advanced aircraft rather than the original stock A350-1000.

5

Confirm RAAS/QAR communication

After loading the aircraft, confirm the RAAS/QAR application is running and that its status changes when the cockpit RCDR GND CTL control is used.

Initial verification

A successful installation should show a separate Advanced aircraft, a working Advanced/RAAS GUI, and no simulator crash while loading. Do not continue troubleshooting individual systems until this basic installation check passes.

8. Updating or reinstalling

Normal update

For a normal A350 Advanced update, close Aerofly FS 4 and the GUI, then merge the new downloaded Aerofly FS 4 folder into Documents and replace the supplied files.

Clean rebuild

Use a clean rebuild after a major Aerofly beta update, repeated crashes, uncertain manual edits or an incomplete previous installation:

- Rename or remove the existing a350_1000_adv folder.
- Copy a fresh clean a350_1000 folder from Steam.
- Paste it into Documents\Aerofly FS 4\addons\aircraft.
- Rename it to a350_1000_adv.
- Merge the latest Advanced package into Documents and replace files.

9. Common installation mistakes

Mistake	Likely result
Installing into the Steam aircraft	The mod may be overwritten and the clean stock source is lost.
Copying only selected stock folders	Models, cockpit assets, liveries or sounds may be missing.
Leaving the destination named a350_1000	The Advanced package and GUI expect the Advanced aircraft folder name.
Keeping stock TMC/TMD files active	The aircraft may load with stock identity or model behaviour instead of the Advanced definitions.
Putting a350_advanced under addons\aircraft	The GUI is not an aircraft and belongs directly under addons.
Copying files while the simulator is running	Files may be locked, partially applied or immediately overwritten.
Using the stock aircraft in the aircraft selector	The Advanced systems will not be active in the original Steam aircraft.
Moving the installer away from the Aerofly FS 4 payload folder	The installer cannot locate the Advanced files and stops before making changes.

10. Guide coverage and release status

This final guide documents the supported public installation and initial operating workflow.

- ? Automatic installer and clean-stock source workflow
- ? Manual installation and required folder layout
- ? Advanced GUI, RAAS/QAR and bridge locations
- ? First launch, aircraft selection and communication check
- ? Updating, backups and clean rebuilds
- ? Common installation mistakes and recovery guidance
- ? Dispatch, maintenance and persistent aircraft-state workflow
- ? RAAS/QAR recording, reports and troubleshooting references

This document is the final public installation and user guide for the current A350 Advanced and RAAS/QAR package. Package filenames may vary by release, but the installation structure and workflow remain the same.