



CheckRide®

Proficiency – Procedures - Emergencies



CheckRide® Console **User Manual** Version 1.7.X

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INTRODUCTION

This document describes the operation of the CheckRide® Console (“Console”). The CheckRide® Console is used as the User Interface for the Flight Student. It allows to select and execute scenarios and provides an Instructor Station for Free Flights. There are two editions: Instructor Station and Professional. Licensing is for Home or Commercial/Academic Use.

Here is an overview of the major differences:

Feature	Standard Home	Professional Home	Standard Commercial	Professional Commercial
Free Flight Instructor Station	X	X	X	X
Record Free Flights	X	X	X	X
Replay recorded Free Flights	X	X	X	X
Export recorded Free Flight telemetry (CSV file)	X	X	X	X
Record Simulator time for Students (Student Log)			X	X
Select and execute scenarios		X		X
Replay current scenario after finish		X		X
Import new scenarios		X		X
Saving of each scenario flown		X		X
Replay of every scenario flown		X		X
Export of scenario telemetry (CSV file)		X		X
Build scenarios using CheckRide® Builder		X		X
Multi User/Student Support			X	X
Application Themes			X	X
Sync Navigraph Data from X-Plane			X	X
“Master Console” – Control multiple simulators.			X	X
Central Data Storage (SQL Server) across multiple simulators.			X	X

The main difference between Home and Commercial Licenses is that Home Licenses can only be used in a home environment. Any other application requires a Commercial or Academic License.

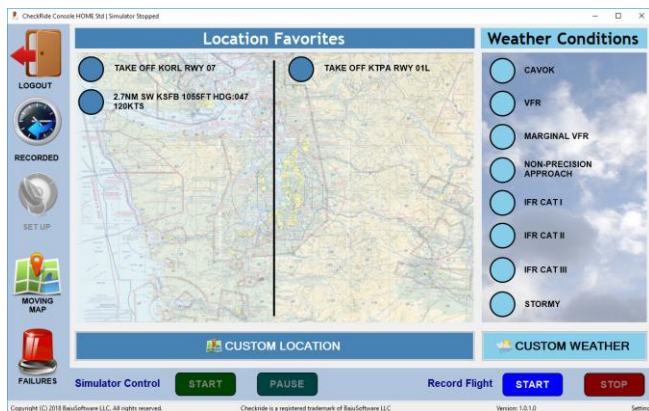
All licenses are sold via a download license that require software activation.

If no license is detected, the CheckRide® Console reverts to a *Trial License* with the same functionality as the Professional License. The runtime is limited to 15 Minutes.

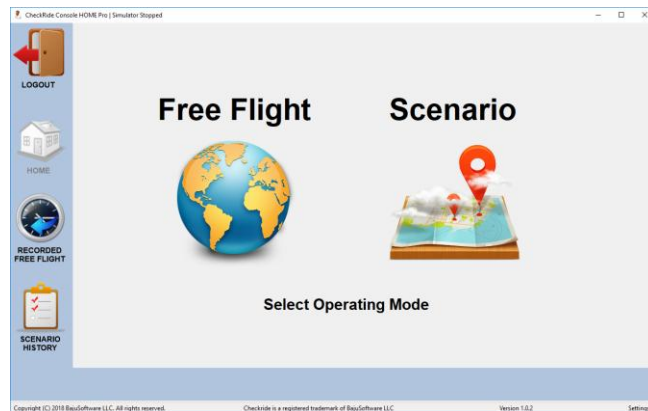
The installation and configuration of the program is described in a separate document called ‘*CheckRide® Installation Manual*’.

STARTING THE CONSOLE

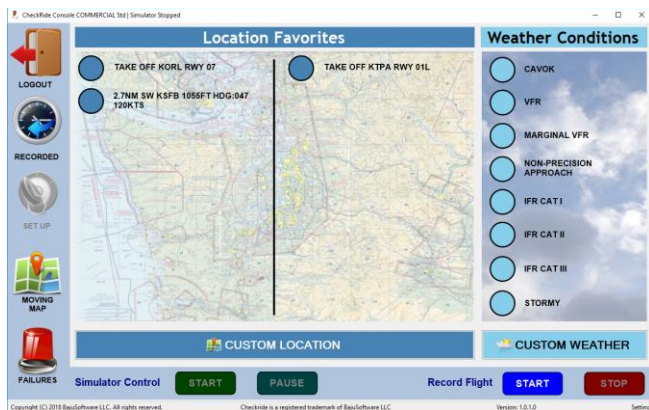
After the installation of the Console, a desktop shortcut will be available on your device, typically a Windows Tablet Computer. Depending on your version, the start screen will appear:



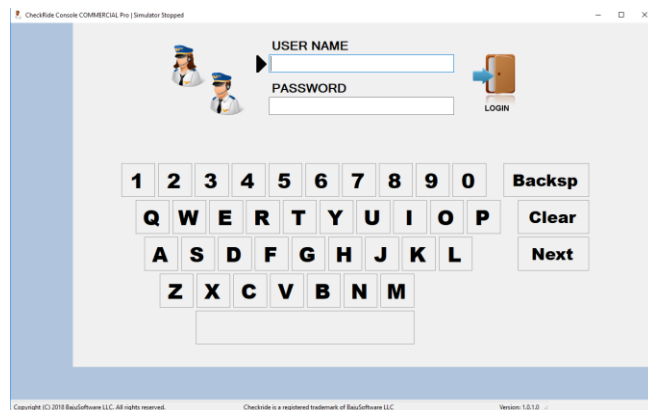
Home Standard Version



Home Professional Version & Commercial Professional Version (Single-User)



Commercial Standard Version



Commercial Professional Version (Multi-User)

The Standard Versions jump right to the *Free Flight (Instructor Station)* screen, whereas the Home Pro versions display the *Operating Mode* screen and the Commercial Pro version requires a user logon.

The system comes with the default administrator logon of User Name: *ADMIN*, Password: *PASSWORD* (all usernames and passwords are uppercase!). You can either use a keyboard or the on-screen touch keyboard. Enter this information to continue with the *Commercial Pro* Version.

Note: The *Commercial Pro* Version can be configured for Multi-User (default) or Single-User Mode. In Single User Mode it behaves like the *Home Pro* Version. See the '*CheckRide® Installation Manual*'.

Note: The *RECORDED (FREE FLIGHT)* button is on different pages depending on the version you have. This option allows you to 'replay' recorded free flights. For *Standard Versions*, the button is on the 'Free Flight Page', whereas in the *Professional Versions* it is on the 'Select Operating Mode (Home)' page.

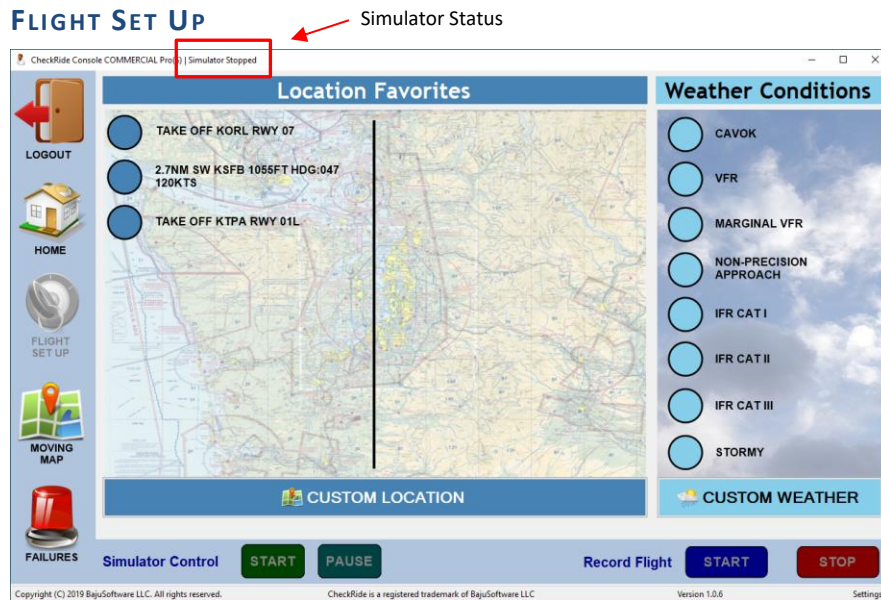
Note: The Free Flight Setup screen can also be configured to include Aircraft Favorites. See chapter Feature Overview/*Free Flight/Setup for an example*. Refer to the '*CheckRide® Installation Manual*' on how to setup Aircraft Favorites. The installation default is not to show Aircraft Favorites.

FEATURE OVERVIEW

This chapter describes each feature available in the four versions. Again, not all features are available in all versions. See the chapter *Introduction* for an overview.

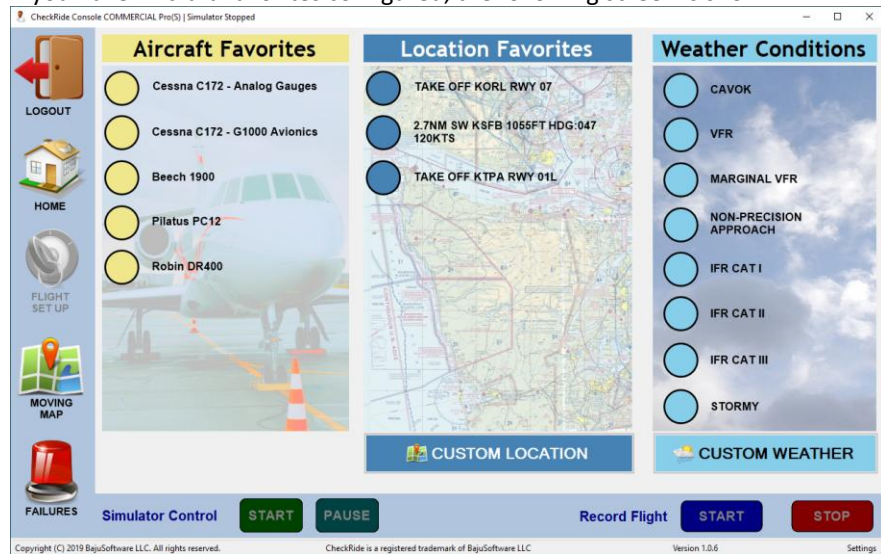
FREE FLIGHT

The Free Flight feature provides an Instructor Station to control your simulator for a flight anywhere in the world. You can place the aircraft anywhere in the world, starting from the ground or in the air. You can set weather conditions and simulate aircraft system failures. Furthermore, you can save favorite startup locations to facility a quick start option. It also provides a moving map display to show your location. The map is fully configurable, see the *CheckRide® Installation Manual*.



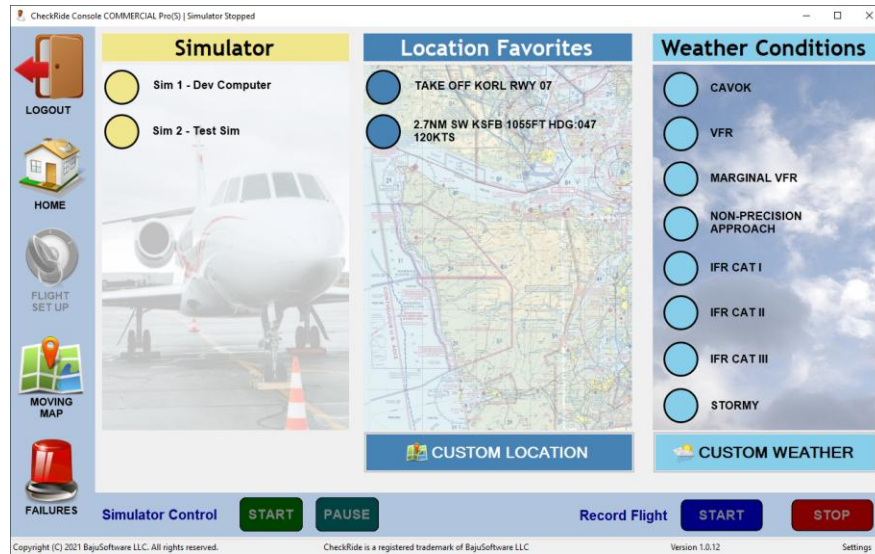
Note: The left menu button's availability depends on the version.

If you have Aircraft Favorites configured, the following screen is shown:



The number of *Location Favorites* has been reduced from 16 to 8 to fit Aircraft Favorites.

If you have Simulator Favorites configured, the following screen is shown:



The number of *Location Favorites* has been reduced from 16 to 8 to fit Simulator Favorites.

If you have Aircraft or Simulator Favorites configured, tap on one of the yellow buttons to select an Aircraft/Simulator. The chosen Aircraft will be loaded immediately or the Simulator Control switches immediately.

Note: *Aircraft Favorites* are only supported by using *X-Plane* and *Prepar3D* as your simulator.

On the *Flight Set Up* screen on the left side (or middle if you have *Aircraft Favorites*) you can select a startup location from the favorites list. There can be up to 8, 12, 24 or 36 favorites depending on display size and if Aircraft favorites are shown. Click/Tap on the blue button in front of the description. At this point the aircraft will be repositioned in the flight simulator. Wait until the relocation action finishes.

On the right side you can change the weather environment of the simulator. Select from up to 8 (12) different weather favorites. You can also change the weather during a flight.

Once the simulator has finished relocating the aircraft, the simulator is set to *Pause*. There are 2 simulator control buttons on the bottom of the screen, [Start] and [Pause]. Use those buttons to control your simulator.

A configurable option allows to turn on the deletion of Location and Weather favorites by double clicking on the favorite name.

If you want to record your flight, click/tap on the blue [Start] button.

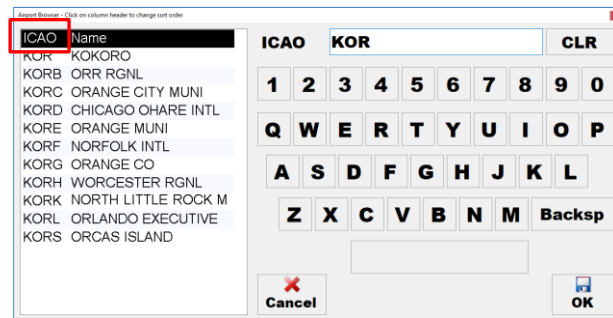
IMPORTANT! Using any functions on the Instructor Station requires your simulator to be in the *running* or *paused* state. The current state of the simulator is displayed on the top of the instructor station. If the Simulator is *stopped*, the *Simulator Control Buttons*, the *Favorite Buttons*, the *Update Weather* and *Set Location* buttons are disabled.

FLIGHT SET UP - CUSTOM LOCATIONS

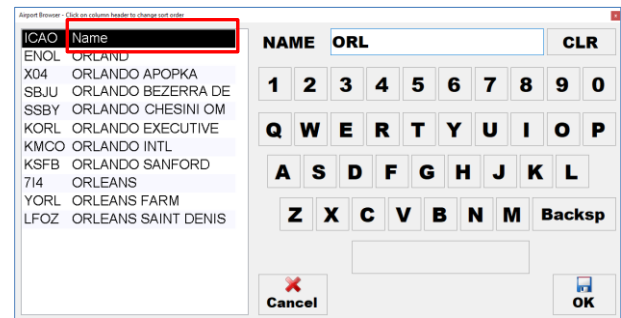
If you want to start from a different location than is provided in the location favorites, click/tap on [Custom Location]:



By default, the current airport is loaded. To change the airport, click on the **Airport ICAO field**. This will show the airport search screen:



ICAO Search



Name Search

Use the keyboard on the screen to enter the search criteria. This is an incremental search meaning that whenever the text box changes a search is performed. You can change the search criteria by clicking/tapping on the **airport list column headers**. This allows you to either search by ICAO or Name.

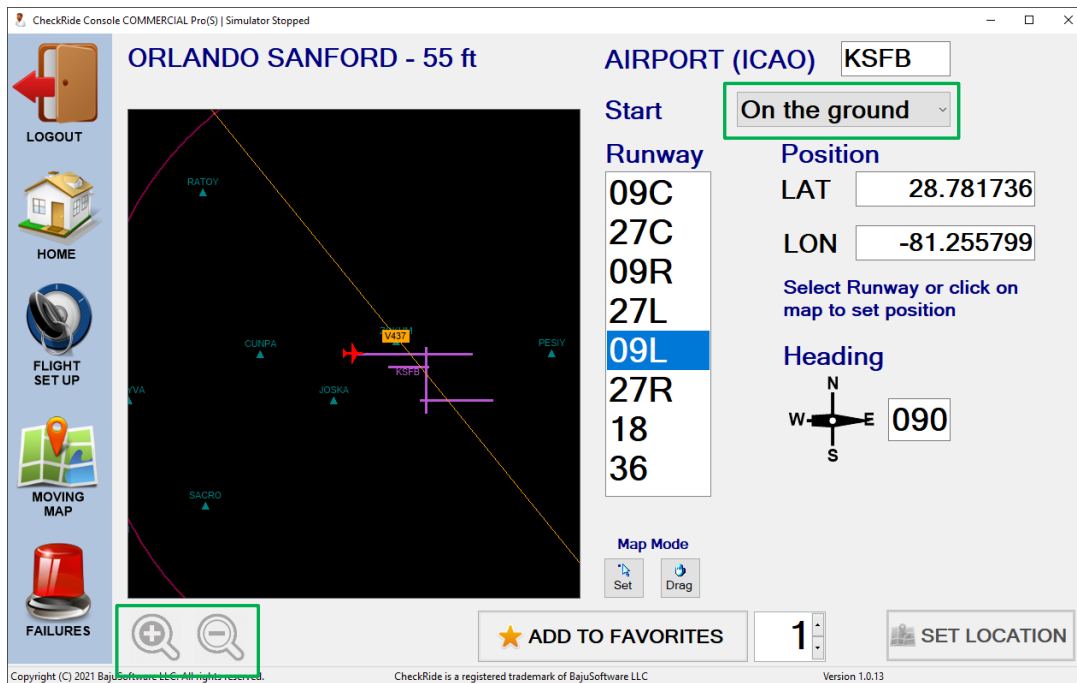
When the airport you wanted is shown in the list, select it by clicking/tapping on its name (black bar).

Click/Tap on [OK] to return to the previous screen where the selected airport will be shown.

Click/Tap on [Cancel] to return to the previous screen without changing the airport.

The next option specifies whether you want to start ‘On the Ground’, make an ‘Approach’ or start ‘In the Air’. Use the **drop down** to select the appropriate function.

On the Ground



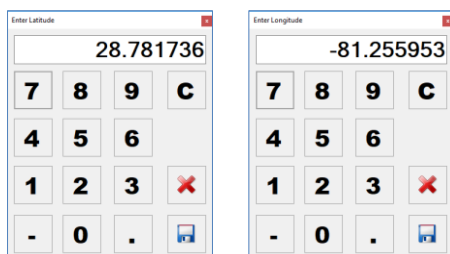
There are 3 ways to specify the startup location for *On the Ground* start:

1. Select a runway (or helipad) from the *Runway* list. This places the aircraft at the start of the runway and sets the heading to the runway heading.
2. Click/Tap on the map to set the location on the map. Make sure the map is in Select Mode by clicking on . You can move the map by choosing the drag mode and dragging the map and using the **Zoom In/Out** buttons.

You have to enter the Heading as well by clicking on the Heading text box:

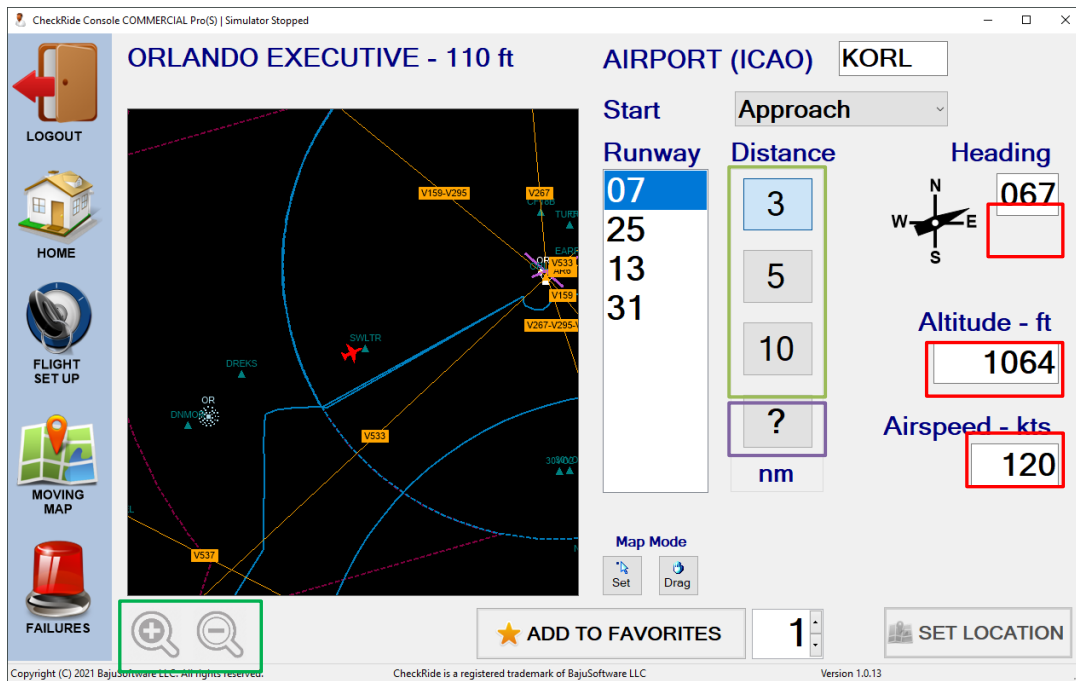


3. Enter the LAT/LON Coordinates. Click on the LAT and LON text boxes to enter the coordinates in decimal degrees:

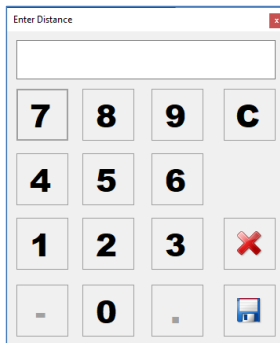


Click on to save your changes.


Approach



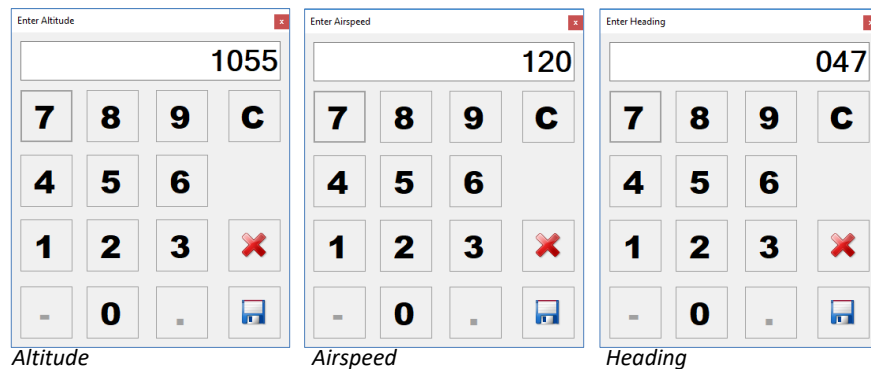
After you select the *Approach* option from the dropdown, select a *Runway* for the approach. Then select a distance by clicking on the appropriate *Distance Button*. If you want to select a different distance to what is provided by the hard-wired buttons, click on the [?] button. A text entry box will appear to allow you to enter a custom distance (Note, only full numbers work):



As soon as a distance has been set, the *Altitude* will be calculated based on a 3-degree glideslope to the selected runway threshold, i.e. the lower the Distance, the lower the Altitude.

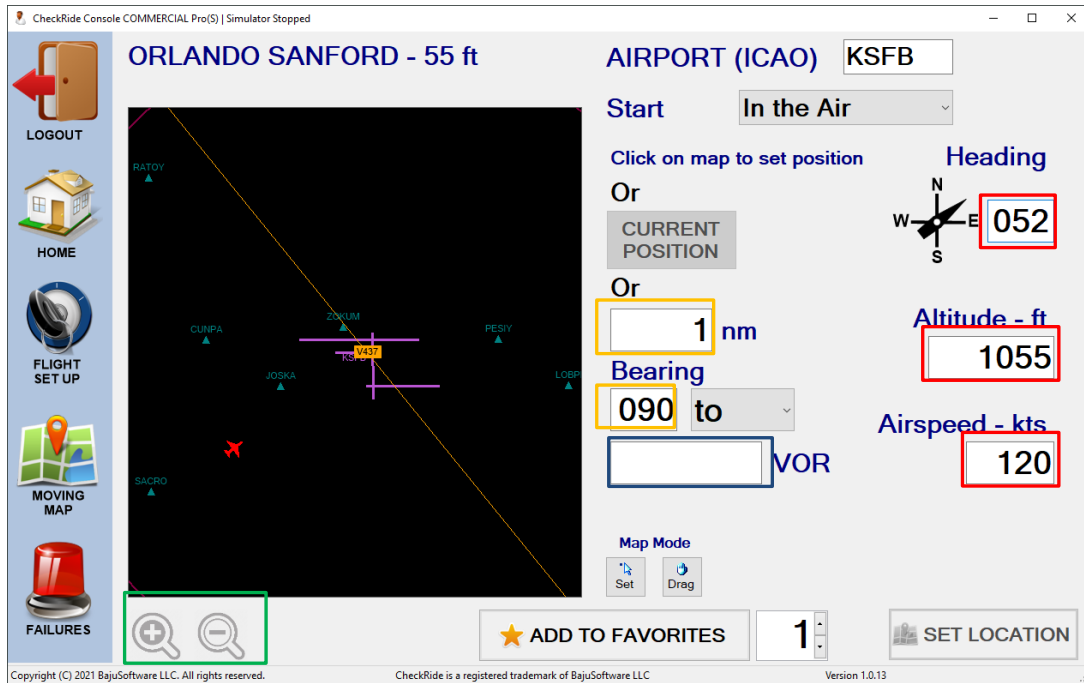
To resize the map display, you can move the map by choosing the drag mode  and dragging the map and/or using the *Zoom In/Out* buttons.

If you want to further adjust the heading, altitude or airspeed, you can change any setting by clicking/tapping in the *text boxes*:

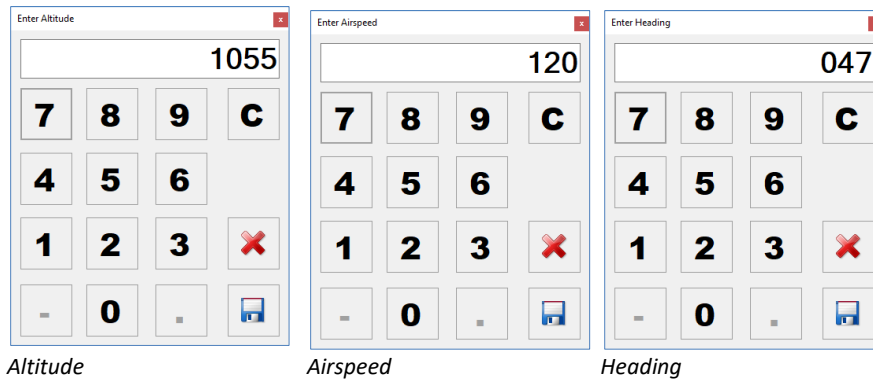


Note: Select the Runway and Distance first, then make adjustments to the Altitude and Heading. If you change the Runway and/or Distance again, the Altitude and Heading will be reset to the calculated values. The Airspeed can be adjusted anytime.


In the Air

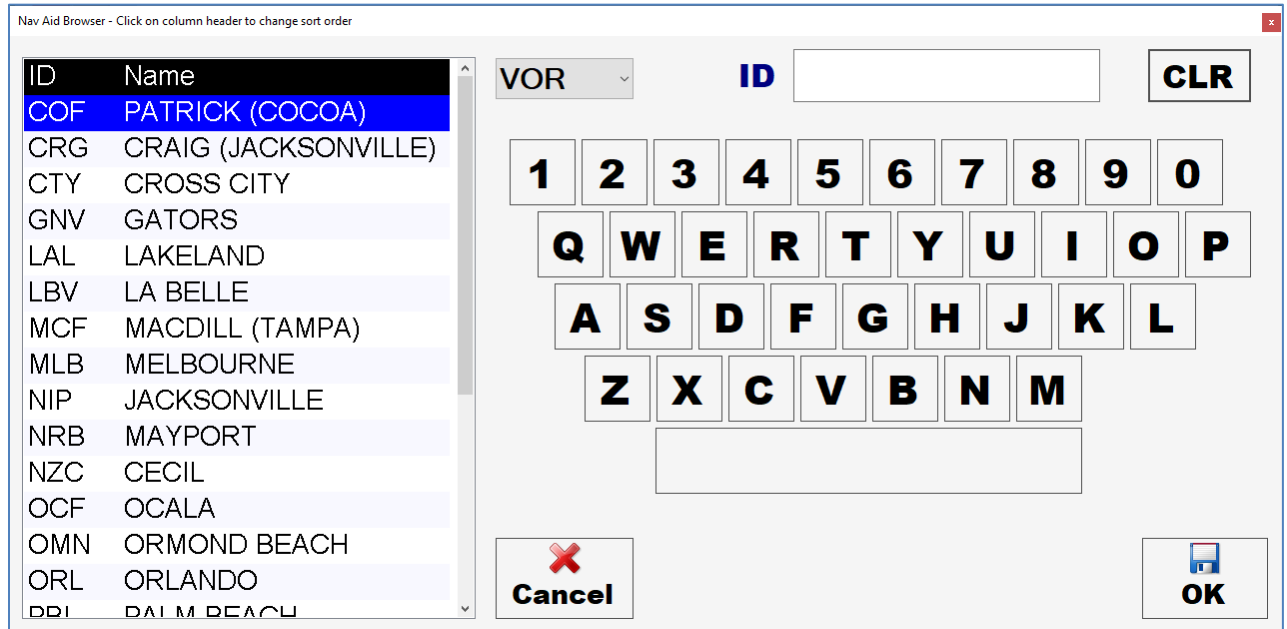


After you select the *In the Air* option from the dropdown, the *Altitude* will be pre-set to 1000ft above airport altitude and the *Airspeed* will be set to 120 knots. You need to change the *Heading* as required. You can change any setting by clicking/tapping in the **text boxes**:



There are 3 ways to specify the location for *In the Air* start:

1. Click/Tap on the map to set the location on the map. Make sure the map is in Select Mode by clicking on .
2. The current location of the aircraft in the simulator by clicking on [CURRENT POSITION]. The flight simulator has to be running for this function to be enabled.
3. Specify a distance and bearing to/from a VOR, NDB or Waypoint (WPT). Clicking on the **Distance** and **Bearing** box will bring up a data entry box similar to the entry boxes for the Altitude, Airspeed and Heading. Right afterwards the Nav Aid Selector will be shown. Or you can click on the **Nav Aid** entry box first. Note, after a Nav Aid has been selected and then changing the distance and/or bearing will always require to select the Nav Aid again.



The Nav Aid Browser works similar to the Airport Browser. Select a Nav Aid Type from the Drop Down. VOR, NDB and WPT (waypoints) are available. Start entering the first letters of the ID will show what has been found in the database. Select the entry wanted and click on [OK].

Click on the column header (ID or NAME) to change the sort and search fields. Waypoint have names only, no IDs.

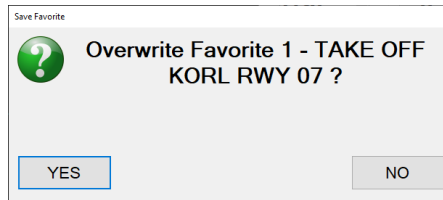
After clicking on [OK], the aircraft marker will be placed in the appropriate position.

Selecting from the to/from dropdown box will also set the appropriate heading.

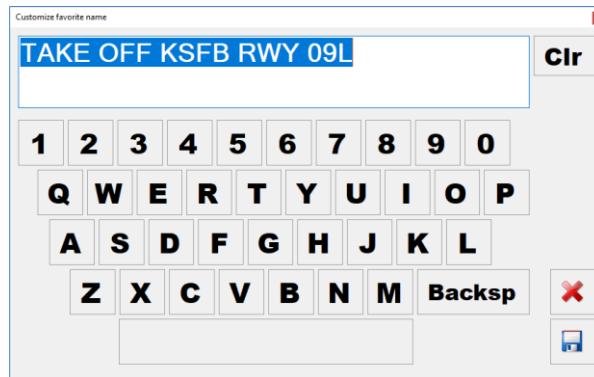
You can move the map by choosing the drag mode  and dragging the map and the [Zoom In/Out](#) buttons.

If you want to start the flight, click on [Set Location] and the aircraft will be relocated in the simulator. You can now click on the *Moving Map* and start the flight using the *Simulator Control Buttons*.

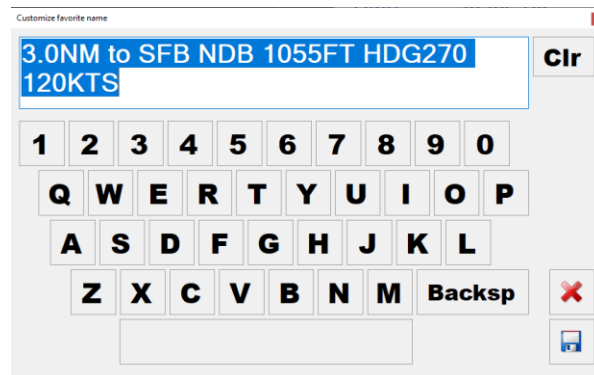
If you want to save this location to the favorites (on the Start Up screen), select a slot number (1 to 16 or 1 to 8) next to the button [Add to Favorites] and then click the button. If a slot has already been taken, it will ask if you want to overwrite this slot.




A description will be generated and displayed in the Favorites Edit box:



On the ground

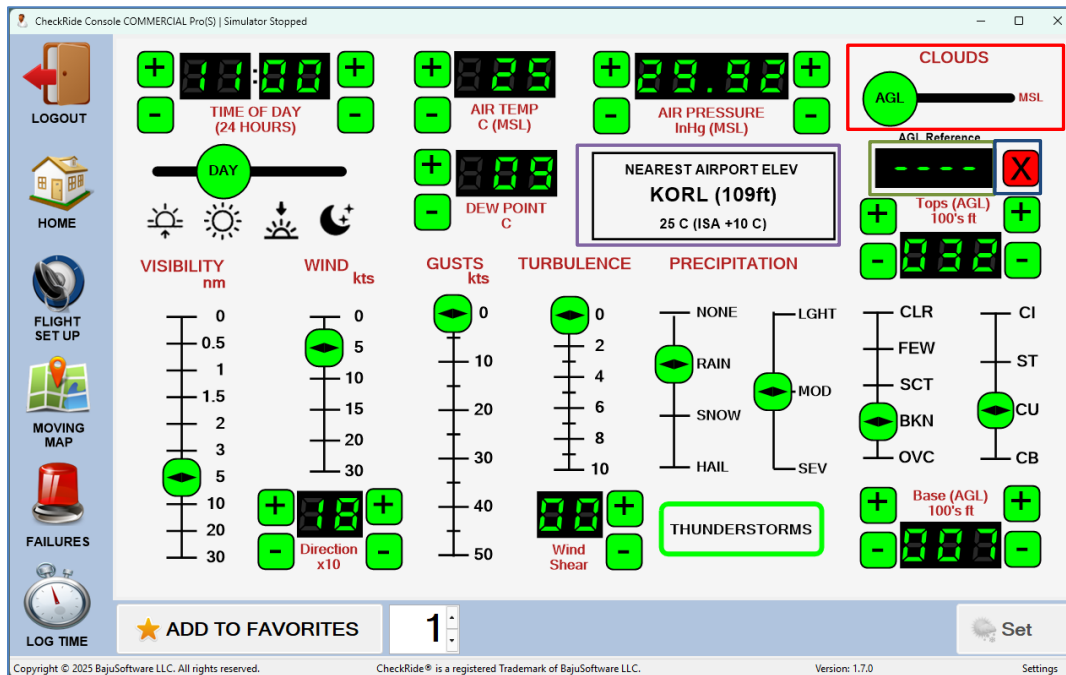


In the Air

You can accept the suggestion or enter a new description using the on-screen keyboard. Click on  to save it.

FLIGHT SET UP - CUSTOM WEATHER

If you want to create a customized weather situation, click/tap on [Custom Weather]:



Use the sliders and buttons to select the weather condition required and whether you want to fly at a specific time of day. You can either enter a specific time or use the slider for presets for Dawn, Day, Dusk or Night.

Notes to Cloud Settings

Cloud Base and Tops can be specified in 3 different ways:

1. Cloud height in feet AGL (Above Ground Level) – Nearest Airport
The cloud heights will be set to the entered feet AGL of the closest airport to the current aircraft location. This can be done when on the ground at an airport or during the flight. The system will search for the closest airport's elevation and add it to the entered cloud heights. There is a **display of the nearest airport** in the middle of the screen. This information is updated every 20 seconds (useful during flight).
2. Cloud height in feet AGL (Above Ground Level) – Specified Airport
The cloud heights will be set to the entered feet AGL. This is similar to the first option, but rather than searching for the closest airport elevation, a specific airport can be used for the cloud height calculation. The specified airport's elevation is then added to the entered cloud heights.
3. Cloud height in feet above MSL (Mean Sea Level)
The cloud heights will be set to the entered feet above MSL.

To decide between AGL and MSL, use the **slider** on the top.

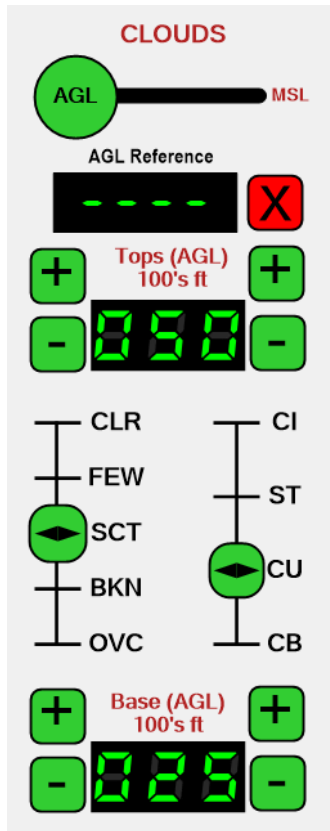
For AGL:

To always use the nearest airport the based on the current aircraft location, leave the **ICAO Box** at ----.

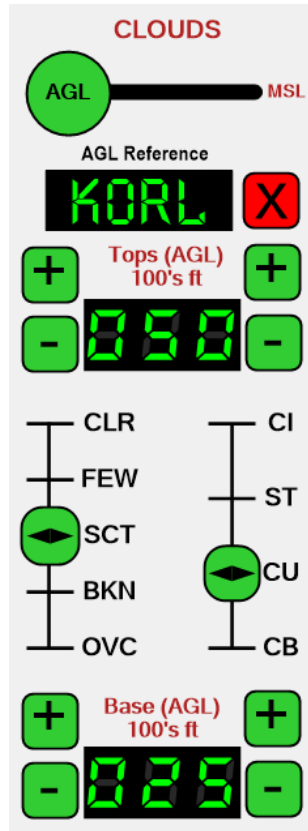
To specify an airport for AGL, click/tap on the **ICAO Box** and select an airport in the same way as in *Custom Locations*.

To clear the ICAO Box, click/tap on the **Clear Button**.

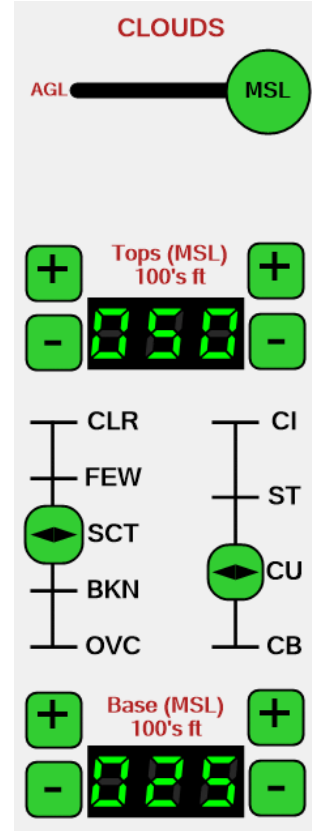
**Cloud Height AGL
Nearest Airport**



**Cloud Height AGL
at KORL**



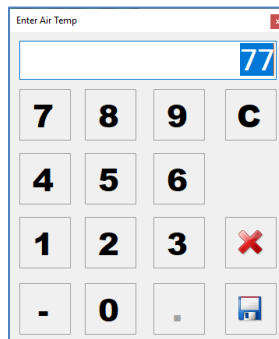
Cloud Height MSL




Additional Notes:

- *Wind Shear* is not supported in FSX and P3D.
- *Wind Gusts* and *Wind Shear* is not supported in Elite

Instead of using the buttons to increase/decrease a value, you can click/tap on any of the LCD style displays to enter a value directly, example for Air Temp:



Click on  to save the entered value.

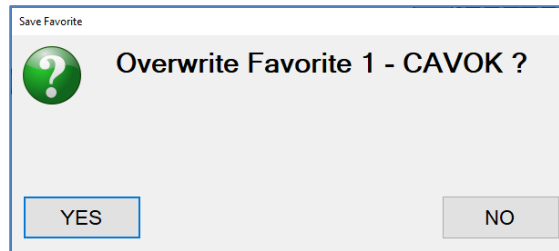
You can change the units for the AIR TEMP, DEW POINT and AIR PRESSURE, by clicking/tapping on the description label under the digit display.

Click on [SET] to update the weather in the simulator. This button is only enabled if the flight simulator is running or paused.

Alternatively, you can save the selected weather condition to the weather favorites. The CheckRide® console is preconfigured with 8 weather favorites. All of them can be overridden by a new weather environment:

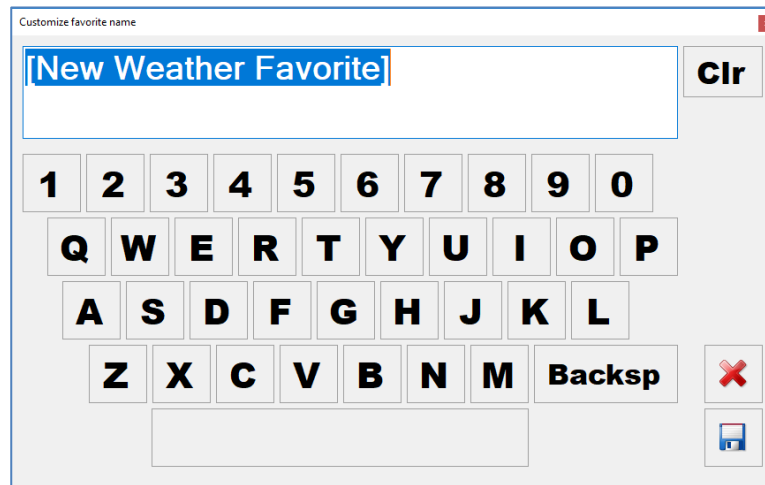
- Select a 'slot number' by clicking/tapping the up/down buttons next to the [ADD TO FAVORITES] button.
- Then click/tap on [ADD TO FAVORITES].


Because all of the favorites are already filled, you will get a confirmation box to overwrite the selected favorite:



If you click/tap on [NO], the operation will be aborted and no changes to the favorites will be made.

After confirming the overwrite, you can enter a description of the weather you have created:



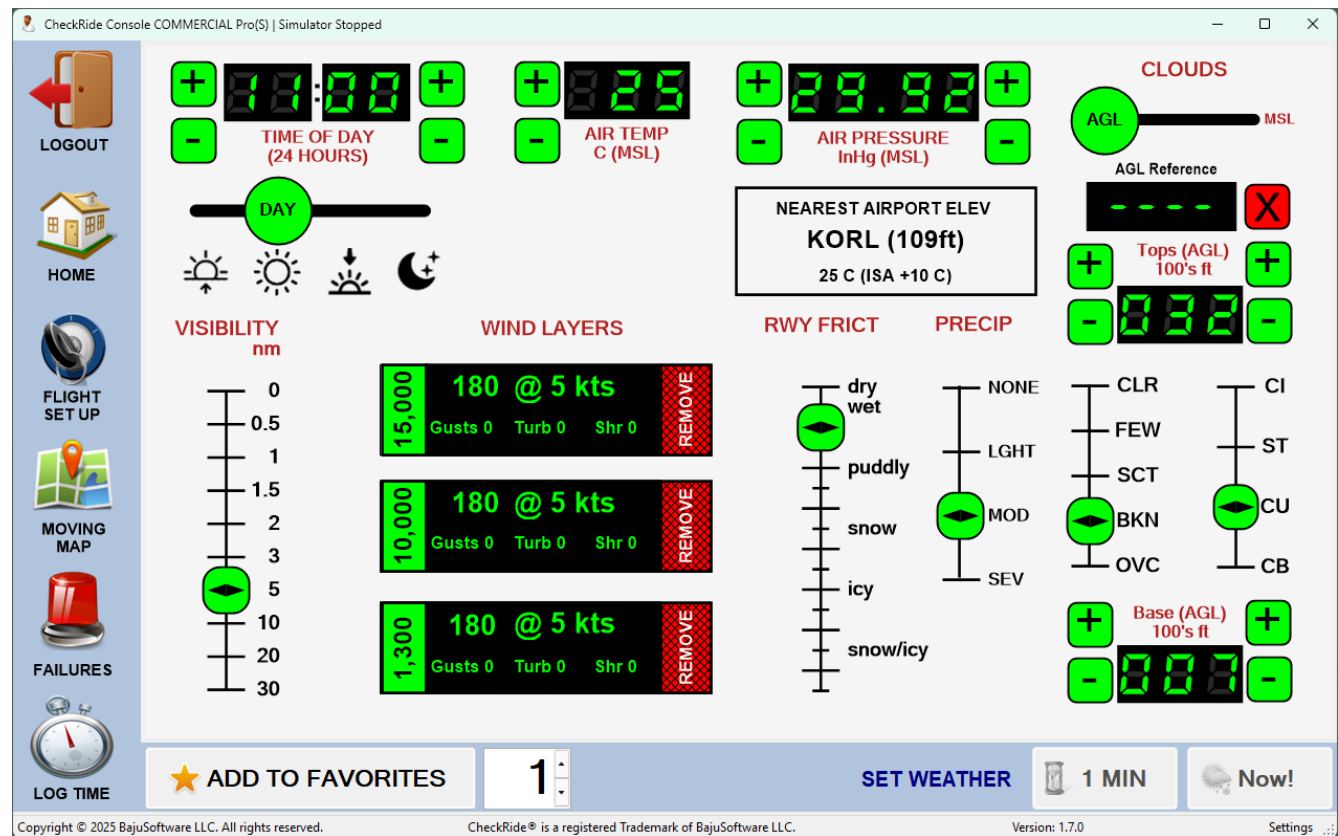
Use the displayed keyboard to enter a description. Then click/tap on the blue save button . The favorite will now be available on the Free Flight Startup Page.

Note to preconfigured weather favorites and cloud heights:

CheckRide® comes with 8 preconfigured Weather Favorites. Favorites with cloud heights (base/tops) are configured for AGL - Nearest Airport. This means when using one of the favorites, the cloud heights will be calculated based on the nearest airport elevation of the current aircraft location (on the ground or in the air).

FLIGHT SET UP - CUSTOM WEATHER – X-PLANE 12

X-Plane 12's weather model has changed to previous versions. There are now multiple wind layers and temperatures. CheckRide® has been adapted for this change. If the system detects that X-Plane 12 is used, it provides a different weather interface:



There are now 3 Wind Layers 'boxes' that allows to create up to 3 different wind layers. Click on each box to change the wind parameters. To delete a wind layer, click on the 'REMOVE' Box.

There is also a new slider to specify the Runway Friction, i.e. how slippery the runway is.

To set the weather, there are now 2 different weather buttons to send the changes to X-Plane.

[1 Min] – Most changes apply immediately, but clouds will slowly change over a 1 Minute period (fixed).

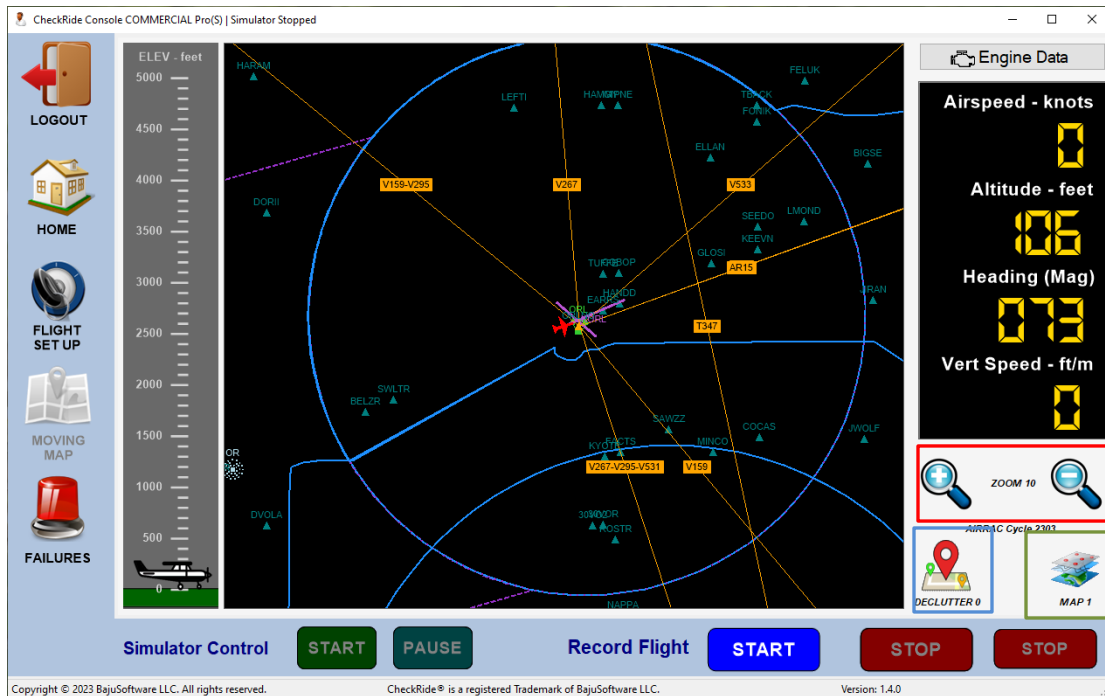
[Now!] – All changes are applied immediately and the weather system is reset. A slight delay in X-Plane is occurring.

The 2 buttons can be used the following way:

- Before setting off on a flight, use the [Now!] button.
- During a flight, use the [1 Min] button to have a seamless experience (no flight interruption).

MOVING MAP

Once you have selected a location favorite or a custom location, you can display the moving map by selecting the button on the left menu:



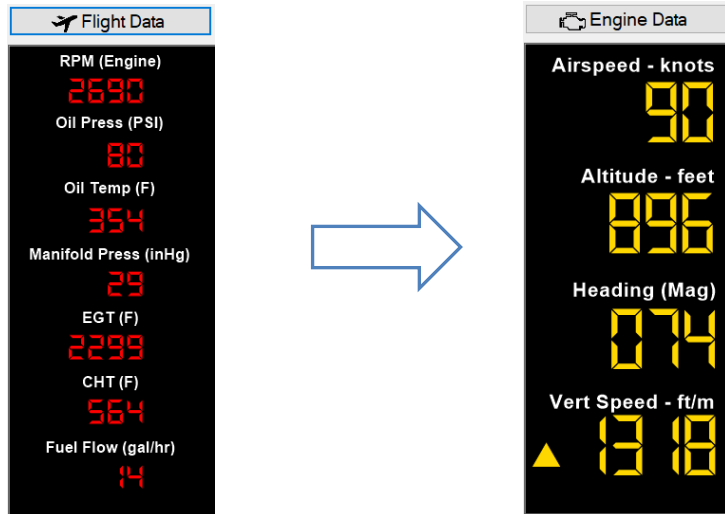
The moving map shows your current position. On the right side is the aircraft performance data display. On the left is an Altitude/Elevation displays that show the aircrafts elevation over ground. Furthermore, if you have tuned an ILS/Localizer and it is in range, a glideslope indicator is shown in the elevation display (if the ILS has a glideslope facility) and the localizer is drawn on the map. If you tuned a VOR station and are in range, a VOR compass with OBS heading indicator is drawn.

The **Zoom Buttons** allow you to Zoom In/Out the map. There are 20 Zoom Levels. Note, there is a setup option to restrict the minimum and maximum Zoom allowed.

There is a **Declutter** button that temporarily hides features on the map. Press the button repeatedly to hide features. It will return to a full display once the end of feature display has been reached.

Additionally, there is an optional **Map** button that allows to switch between up to 3 preconfigured maps. If there is only one map configured, the button is not shown.

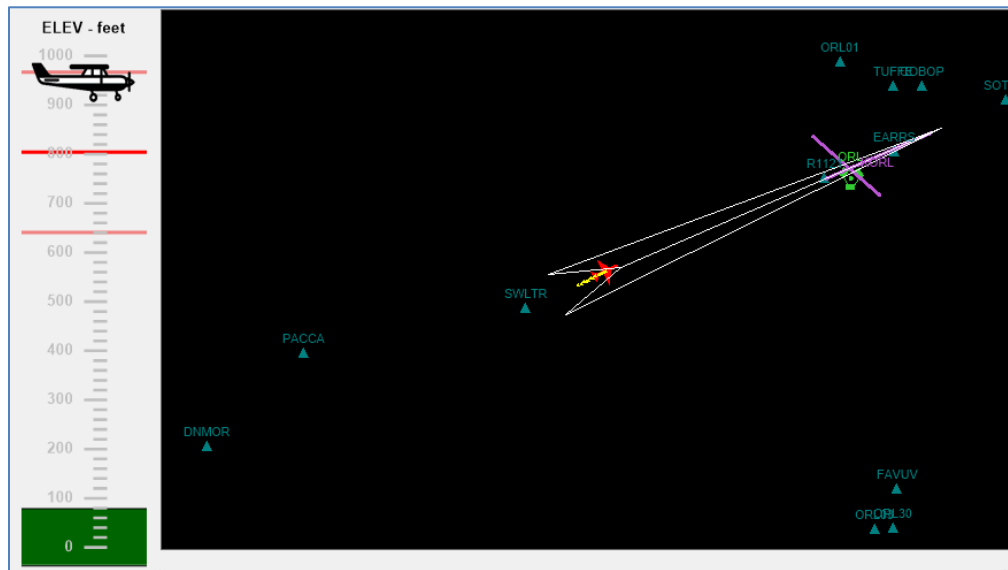
Clicking on the button [Engine Data] displays Engine Data and the button changes to [Flight Data]. Click on [Flight Data] to display the aircraft performance data again.



To start a new flight, Pause the flight using the *Simulator Control Buttons*. Then select the [Flight Set Up] button on the left menu bar (if you are not already on the *Flight Set Up* page).

Glideslope & Localizer Display

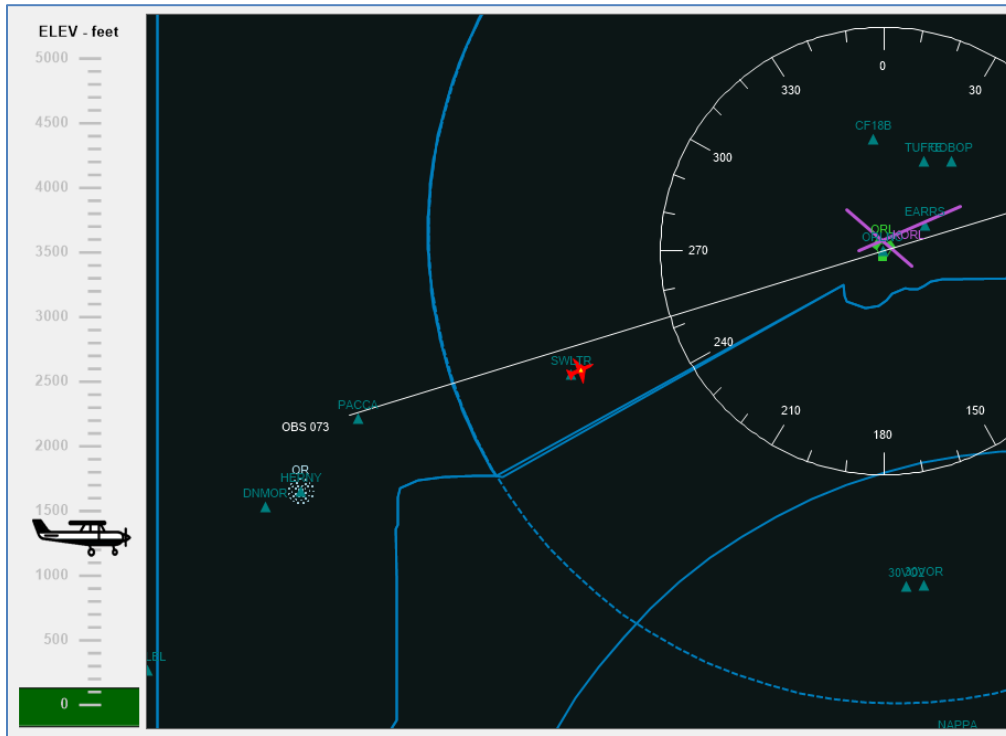
If you have tuned a Nav Radio to the *correct ILS frequency* and the radio has received a *valid localizer/glideslope signal*, the playback screen will show a localizer graphic on the map and glideslope indicator in the altitude display.



There are 3 lines to indicate the glideslope. The middle line shows the 'On Glideslope', the upper and lower are the upper and lower boundaries of the glideslope (in 'faint' red). As you get closer to the touchdown point, the bars will move closer together as the glideslope band narrows the closer you get.

For ILS facilities with a localizer only (no glideslope), only the localizer graphic will show in the map.

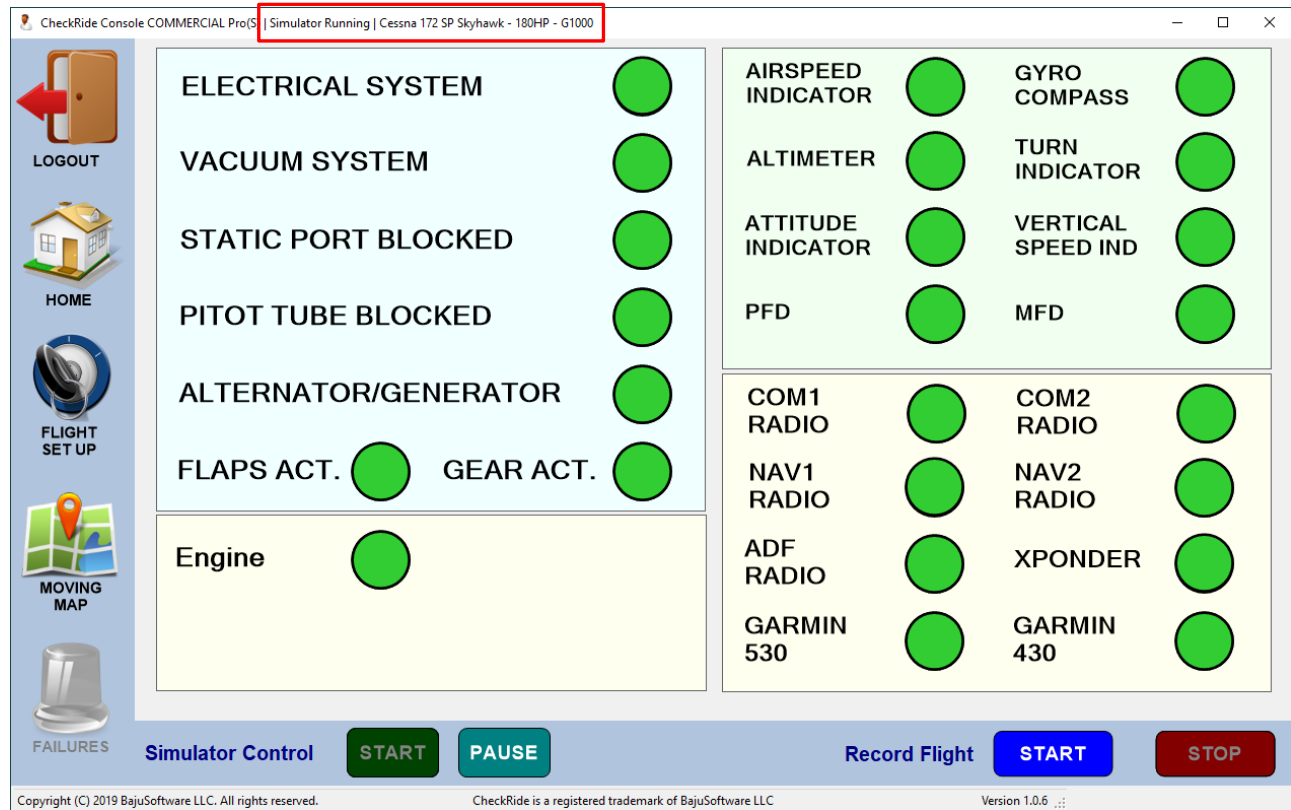
VOR Display



If you have tuned a VOR1 and/or VOR2 station and are in range, a VOR Compass with OBS indicator is drawn on the map.

FAILURES

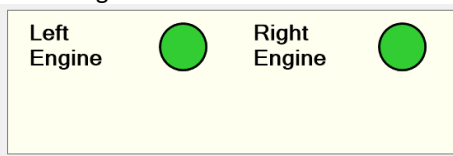
This feature allows you to simulate aircraft system failures during a flight. Select the [Failures] button on the left menu bar. There are a preset number of failure types available. On the left side are system and engine failures, on the right side are instrument and radio failures. Depending on the number of engines in the aircraft, you will see one or more engines that can be failed. In this example we have a single engine aircraft. The type of aircraft is also displayed in the top bar:



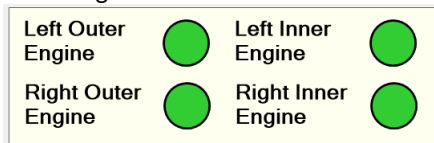
To activate a failure, click/tap on the green button next to the failure. When a failure has been set, the button turns red. To clear the failure, click/tap the button again and it will turn green again.



Twin Engine Failures:



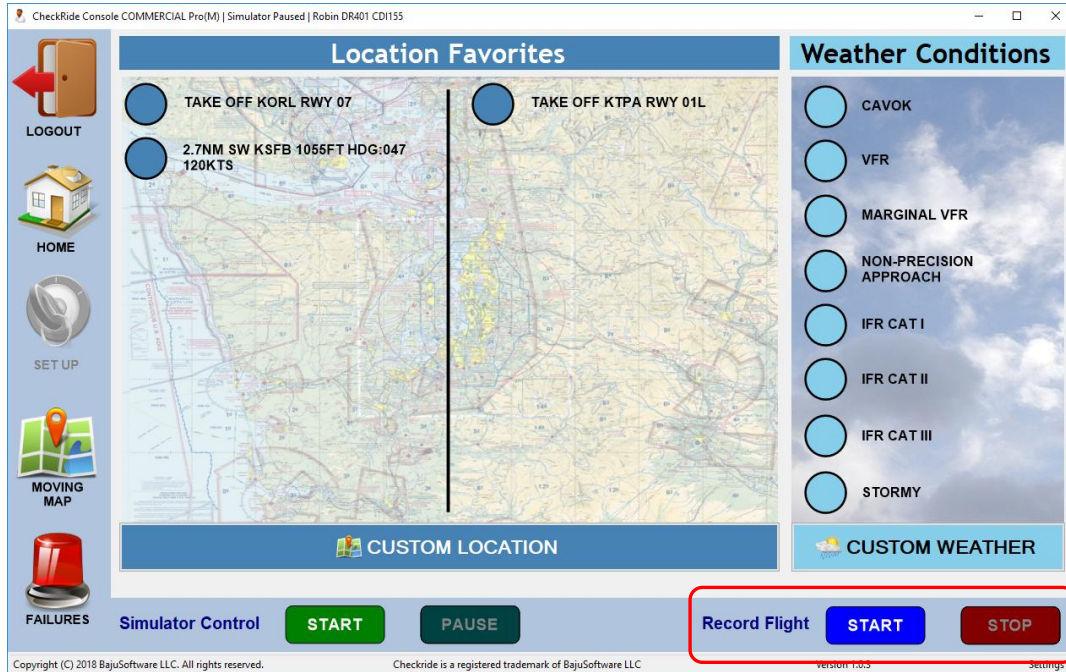
Four Engines Failures:



Note: The following failures will only work in **X-Plane**: Alternator/Generator, Flaps Actuator, Gear Actuator, PFD, MFD, Garmin 530 and Garmin 430. For the PFD, MFD and the Garmin GPS, if you fail any of the radios, they will also fail in the GPS's Radios. If you use any other simulator you can hide those failures in *Settings* under *Free Flight Settings*.

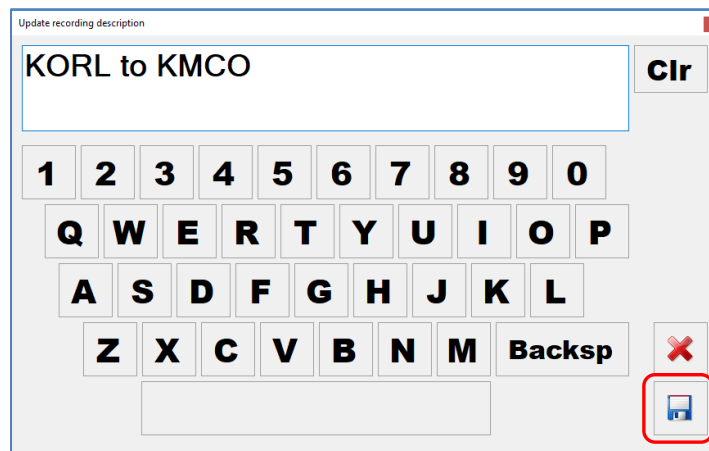
RECORD A FREE FLIGHT

To record a free flight, select your starting location. Then use the *Record Flight* buttons to start or stop recording. A variety of telemetry information is saved at an interval of 1 second. It includes also positional data that allows to playback the flight path at a later stage (see next chapter).



When you are done with recording, at the end of a flight or at any time during the flight, click/tap the [STOP] Button.

You will be presented with a dialog box to confirm the description of the recorded flight. By the default the closest starting location airport (when pressing the [START] button) and the closest ending airport (when pressing the [STOP] button) will be used as an automatic description. If you want to change the description, you can do this by using the onscreen keyboard:

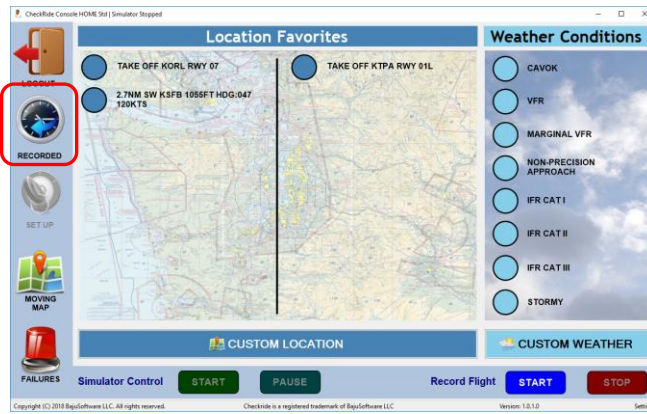


Once you are done with the description, press the [Save] button. The flight has been recorded and is now available for playback.

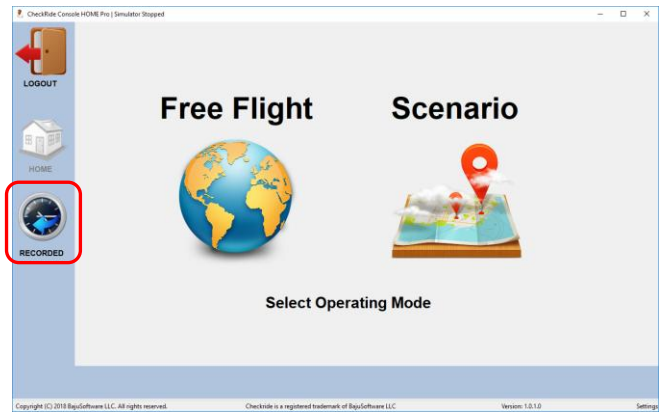
Note: If you pause the flight, recording also pauses.

REPLAY A RECORDED FLIGHT

To replay a previously recorded flight, select the *Recorded* menu. Depending on your version, this will be at different locations within the CheckRide® Console:

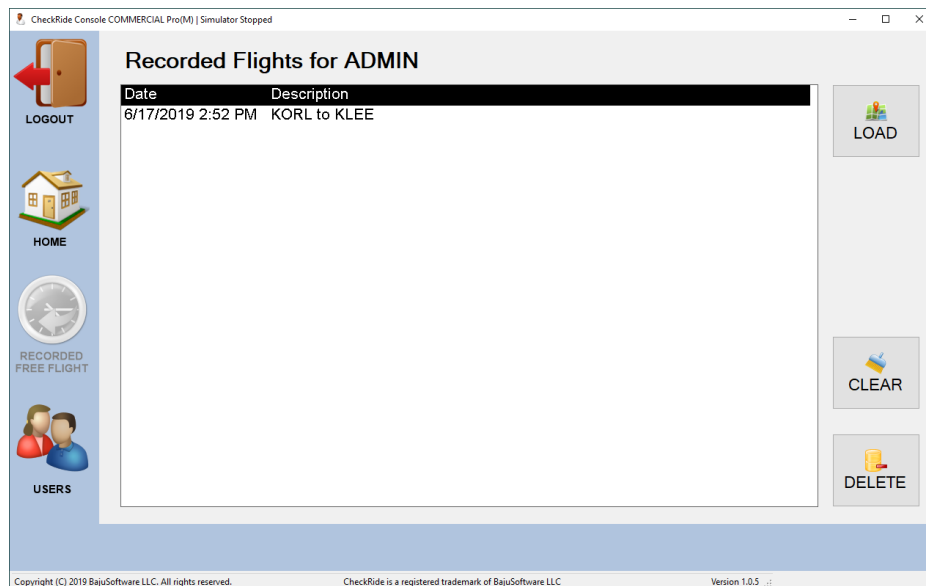


Standard Versions



Professional Versions

The recorded flights page shows you a list of all recorded flights, sorted by date/time in reverse. The latest is always on top:

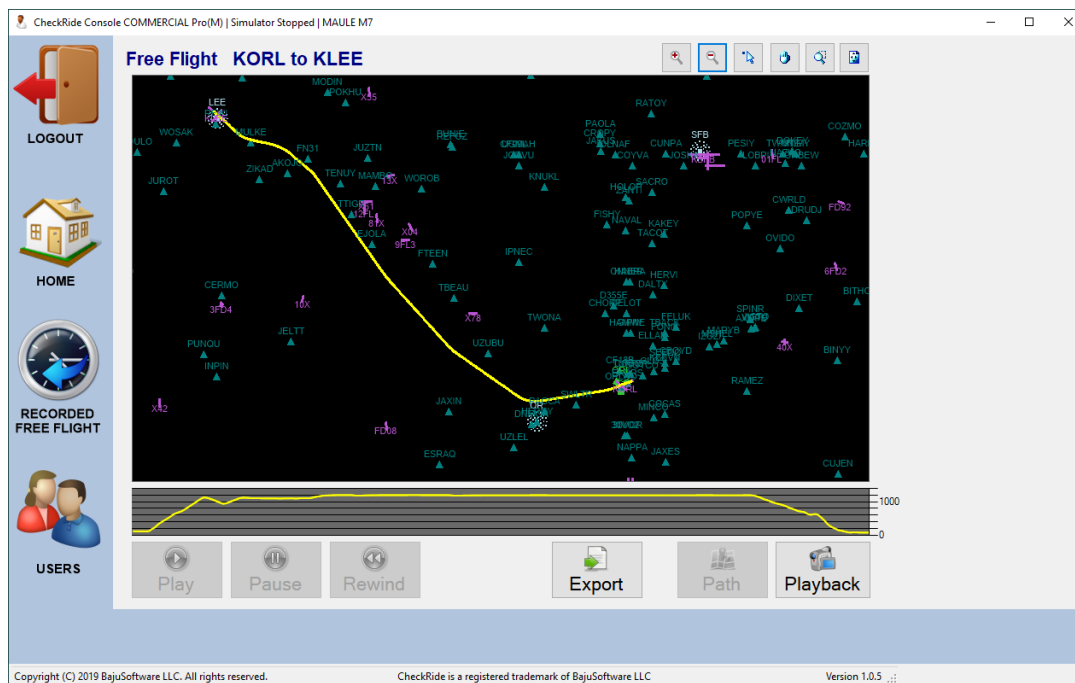


Select the recording by clicking/tapping on it. You can now:

- [LOAD] Load the recorded flight for replay.
- [DELETE] Delete the selected flight.

- [CLEAR] Clear all recorded flights. Just as it says, it will clear ALL recorded flights! A confirmation box will be shown before clearing all recordings.

After selecting [LOAD], the recording will be loaded and the replay page will appear:



The first page shows an overview with the flight path (yellow) and an altitude profile. There are several functions available to give details about the scenario flown:

- Yellow line shows the flight path flown.
- On the bottom is an altitude profile.
- Drag the map for a better view
- Inspect the flight path
- Center the map
- Export the flight telemetry
- Replay the flight

6 buttons on the top right of the map are available. 2 Buttons for zooming the map and 4 Buttons as described below:



Select Mode: Used to 'hover' over flight path to get flight telemetry information.



Drag Mode: Used to 'drag' the map for better viewing. This is the default mode. Drag the cursor to move the map. (Hold mouse down or tap and hold and drag map)



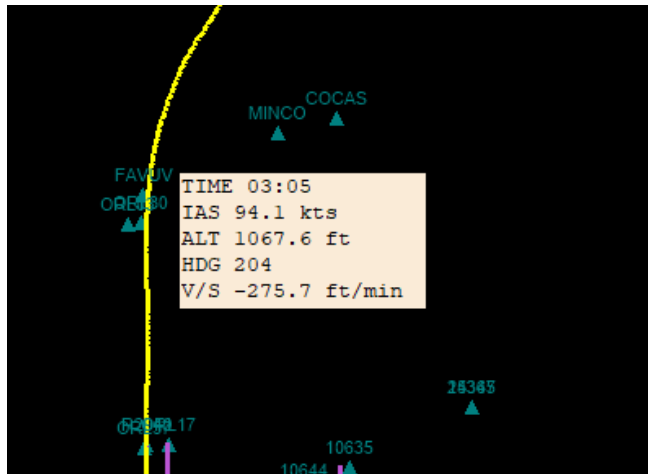
Zoom Mode: Zoom the map to enlarge/reduce the map. Drag a rectangle to enlarge an area. Hold mouse down or tap and hold and drag to draw a rectangle for zooming. Drag from left to right to enlarge (zoom in) or right to left to reduce (zoom out).



Center Mode: Center the map to the flight path. Click/tap on it to center the map. (Useful if you get 'lost' on the map)

Select Mode

When the cursor is over the flight path ('hovering'), information about the elapsed time, airspeed, altitude, heading and vertical speed is displayed for that point in the flight:

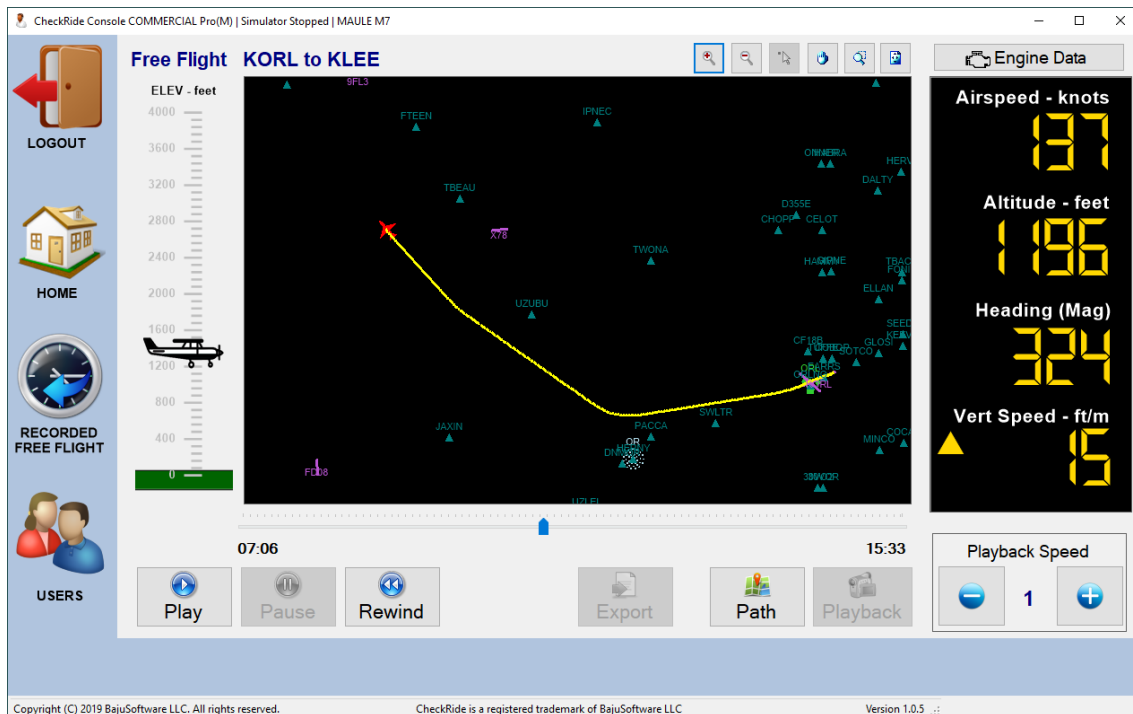


Hover over flight path.

There are 2 more buttons on the bottom of the screen:

Export Exports all flight telemetry to a CSV (Comma Separated Values) File. This file can then be used for further flight analysis using a different program, like Microsoft Excel. The file is saved to the Windows Desktop.

Playback Start the playback function. It plays back the flight progress on the moving map and shows telemetry data on the right-hand side:



There is also an elevation reference display that shows the aircraft elevation (GPS) and the ground elevation (green). The symbol changes when the gear has been retracted (if equipped) and when flaps are lowered:



Aircraft landing gear down or fixed gear, no flaps.



Aircraft landing gear up, no flaps.



Aircraft landing gear up, flaps deployed.



Aircraft landing gear down or fixed gear, flaps deployed.

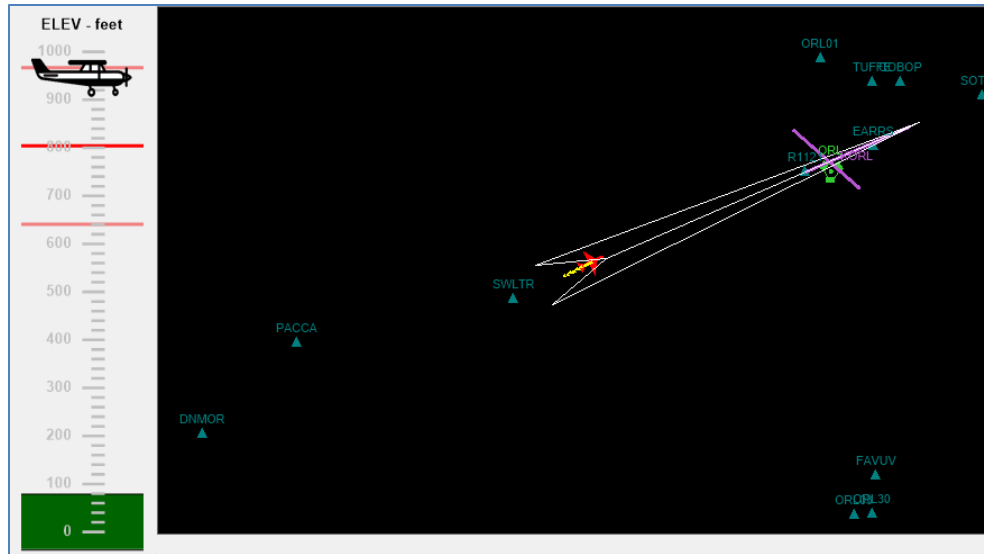
Or



Helicopter (The symbol can be configured in *Settings* for aircraft or helicopters).

Glideslope & Localizer Display

If you have tuned a Nav Radio to the *correct ILS frequency* and the radio has received a *valid localizer/glideslope signal*, the playback screen will show a localizer graphic on the map and glideslope indicator in the altitude display.

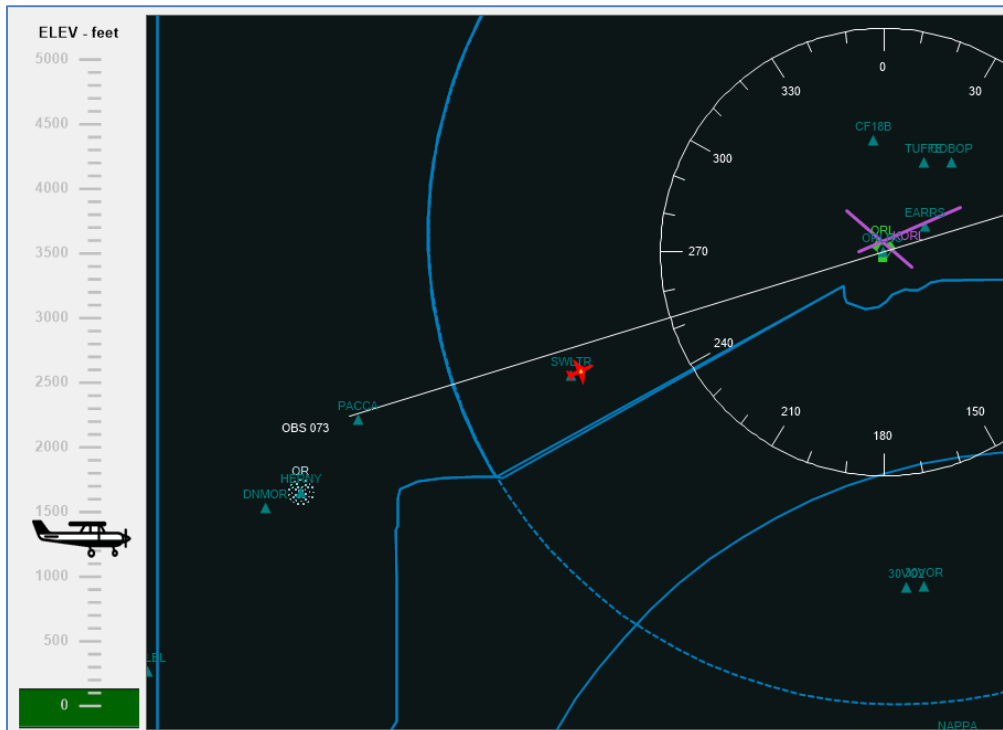


There are 3 lines to indicate the glideslope. The middle line shows ‘On Glideslope’, the upper and lower are the upper and lower boundaries of the glideslope (in ‘faint’ red). As you get closer to the touchdown point, the bars will move closer together as the glideslope band narrows the closer you get.

For ILS facilities with a localizer only (no glideslope), only the localizer graphic will show in the map.

VOR Display

If you have tuned a VOR1 and/or VOR2 station and are in range, a VOR Compass with OBS indicator is drawn on the map.



Playback functions:

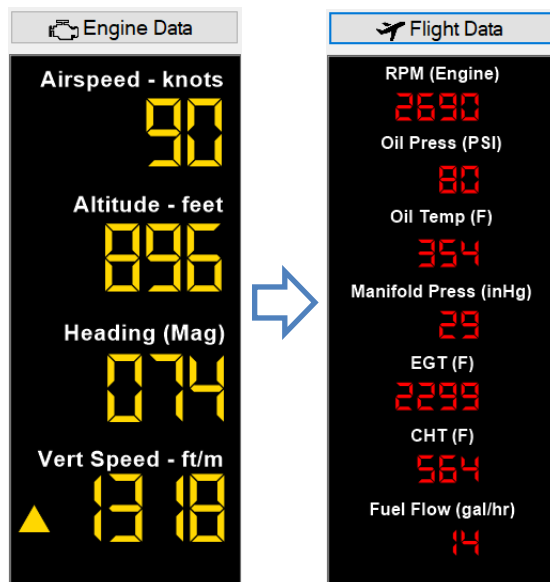
- Play** Starts the playback
Pause Pauses the playback – click Play again to resume
Rewind Rewinds the playback to the beginning.

Export Exports the flown scenario data to a CSV File on the Windows Desktop

Path Returns to the flight path display

- When the playback is paused, you can slide the trackbar to go forward or backward.
- Playback Speed can be changed by using the [+] and [-] buttons in the playback speed control.
- The map buttons on the top right of the map can also be used to drag, zoom and center the map. The select button only works in the flight path display and is disabled here.
- You can click on *Engine Data* to show Engine Performance Data
- Click on *Flight Data* to show Flight Data again.

Note: The example below shows a single engine aircraft's data. For twin engine aircraft, the display also shows the 2nd engine.

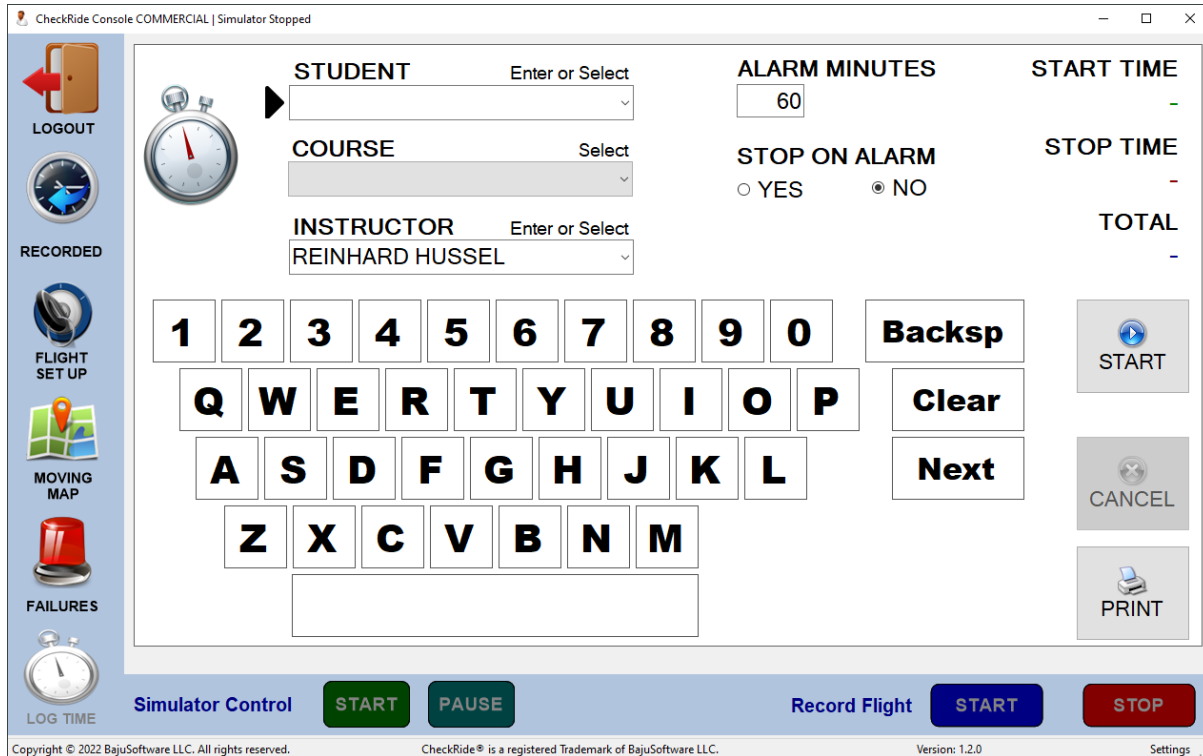


STUDENT LOG

The Student Log allows Flight Schools to record flight simulator time for record keeping and billing purposes.

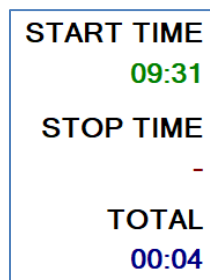
Note: The Student Log function is only available for Commercial Licenses.

Once the Student Log has been configured (See CheckRide® Installation and Configuration Manual), an icon will be displayed in the Free Flight Menu:



Typically the Log Function is used before a student begins a lesson:

1. Select or Enter the Student Name (once entered it will be saved and from then on available via the dropdown)
2. Select the Course (Courses are defined in the *Settings Menu* - See CheckRide® Installation and Configuration Manual)
3. Select or Enter the Flight Instructor (same procedure as for Student Names)
4. Enter the Alarm Minutes (typically the length of each lesson – default is also made in *Settings* – 0 = No Alarm)
5. Select if the timer should be stopped once the alarm rings (default is defined in *Settings*)
6. Click the [START] button. The start time is displayed and a running total is kept.

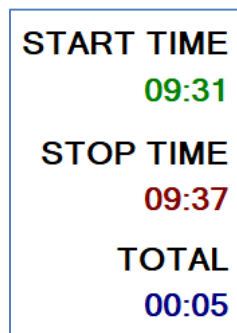


Now proceed with the flight lesson as usual. The timer will continue in the background. An alarm will ring at the set time.

Once the lesson is finished and

1. The Alarm rings – if *Stop on Alarm* has been selected, the timer will be stopped and the lesson is recorded
2. The Alarm rings - if *Stop on Alarm* has not been selected, a dialog box is shown to silence the alarm. You have to manually stop the timer by going back to the Log function and press the [STOP] Button.
 3. No Alarm rings (0 minutes has been entered), you have to manually press the [STOP] Button.

The start time, stop time and total duration (in *hours:minutes*) is displayed and the log is saved:



If you press the [CANCEL] Button, the lesson is stopped, but it is not recorded. This is used if an error has been made and the [START] button has been pressed by accident.

There is a print facility to print reports based on Student, Course, Instructor and Date Range. Click the [PRINT] button:

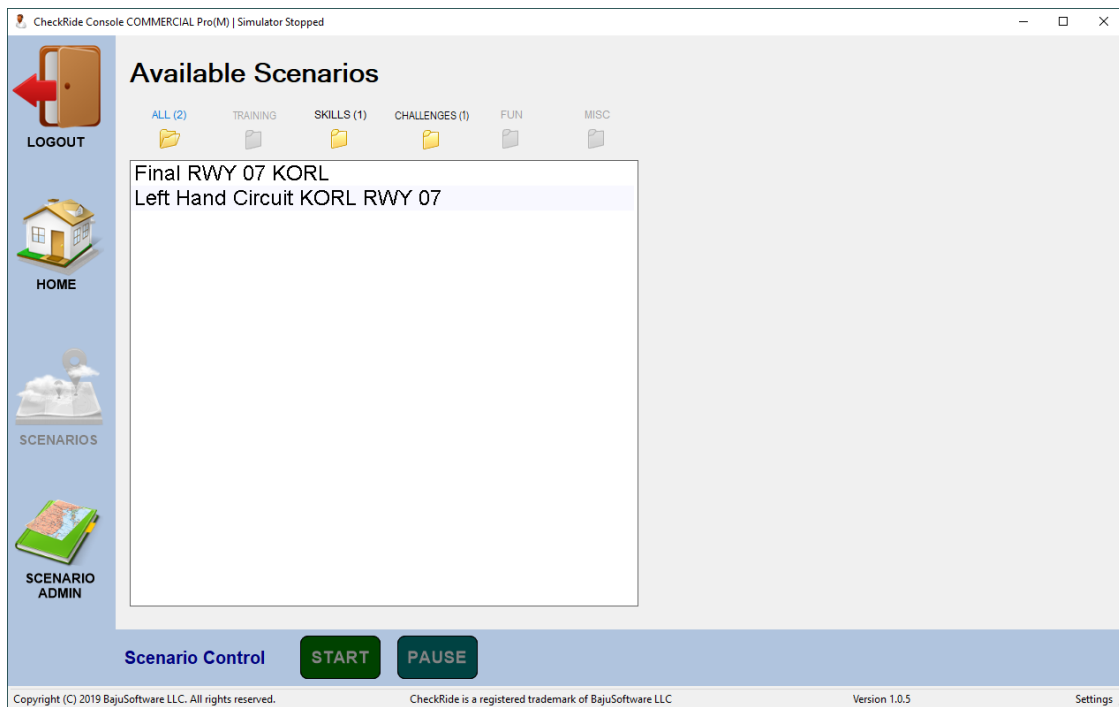
Select the Student (required!) and optionally the Course and Instructor. The specify a date range by either using any of the six shortcut buttons, or by using the Date Range From/To dropdowns to specify a custom date range.

Click on [OK] and a PDF report will be generated and either shown on the monitor or printed to the configured printer (as defined in the Settings menu, the default is to show on screen first – then you can print from there).

Note: All logs are stored permanently, but the dropdown selection for Students and Instructors can be modified in the *Settings* menu to allow for departed Students/Instructors. See the *CheckRide® Installation and Configuration* manual

SCENARIOS

Scenarios are only available in the *Home Professional* and *Commercial Professional* Versions.



Available Scenarios

shows all available scenarios (Home Pro Version)
shows scenarios assigned to *current user logged in* (Commercial Pro Version)

Left side buttons (main menu bar)

LOGOUT	Logout from current session - return to login screen (Commercial Pro Version)
HOME	Return to main scenario screen
SCENARIOS	Scenario selection screen.
SCENARIO ADMIN	Go to scenario admin screen (requires admin privileges for Commercial Pro)

Scenario Control buttons

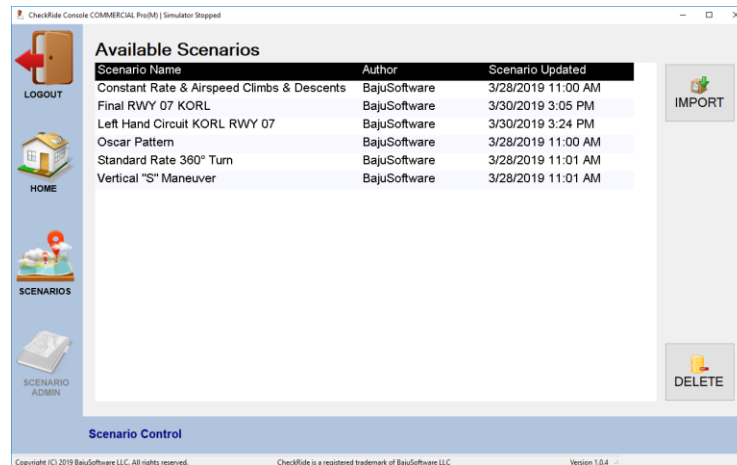
(The buttons will only be enabled/visible if a connection to a simulator has been established and a scenario has been selected/loaded)

START	Starts a loaded scenario
PAUSE	Pauses the running scenario
RESET	Aborts/Reset running scenario
LOAD	Load the selected scenario

SCENARIO ADMINISTRATION

In order to execute scenarios, they need to be imported/loaded into the Console. The Console has a few example scenarios pre-loaded. CheckRide® Scenarios are available separately from various vendors. Scenarios are typically delivered via a download file and imported into the Console.

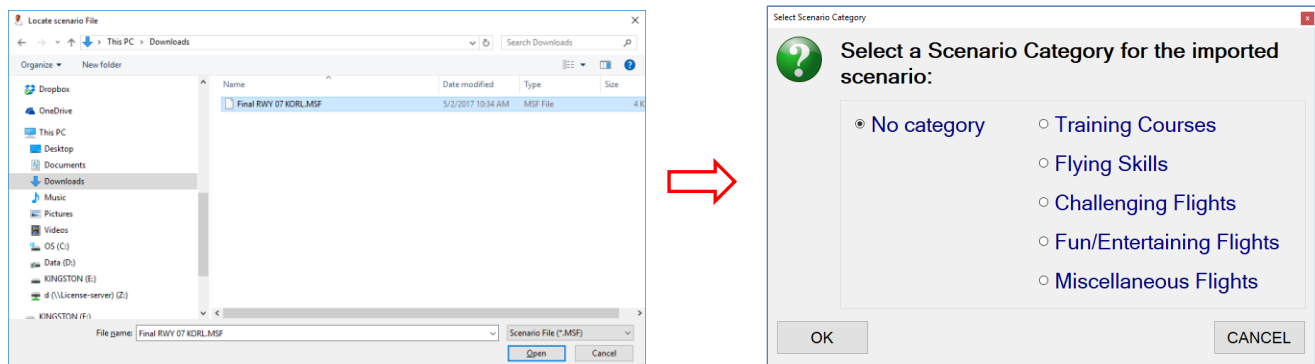
Select the *Scenario Admin* section (login as administrator in the Commercial Pro version first):



All currently available scenarios with their author and the date it was updated/created are displayed. The date/time is *not* when it was loaded into the console, but the date/time it was created or updated by the author. There are two functions available:

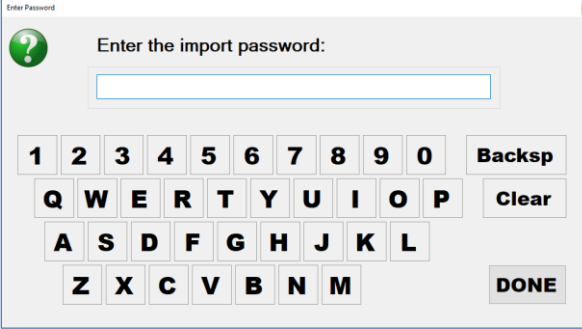
IMPORT

Import/load a new scenario from file. After downloading a new scenario file, click this option and browse to the location where you have saved the file, typically your *Downloads* folder. Then select it and click on [Open].



The next option allows you to optionally place the scenario into a category. See chapter *Starting a Scenario*.

If the scenario to be imported requires a password, enter it here and press the [DONE] button:



The screenshot shows a dialog box titled "Enter Password" with a question mark icon. The text "Enter the import password:" is displayed above a text input field. Below the input field is a keyboard layout with buttons for numbers 1-0, a Backsp button, letters Q-P, letters A-L, letters Z-M, and a DONE button. There is also a Clear button next to the Backsp button.

Note: If a scenario with the same name by the same author already exists, you will be prompted if you'd like to overwrite it.
Commercial Pro Version only: Continue to the *User Admin* section to assign this scenario to the different users to make it available for them.

DELETE

Select the scenario to be deleted from the Console and press the [Delete] button. This removes the scenario and it will no longer be available.

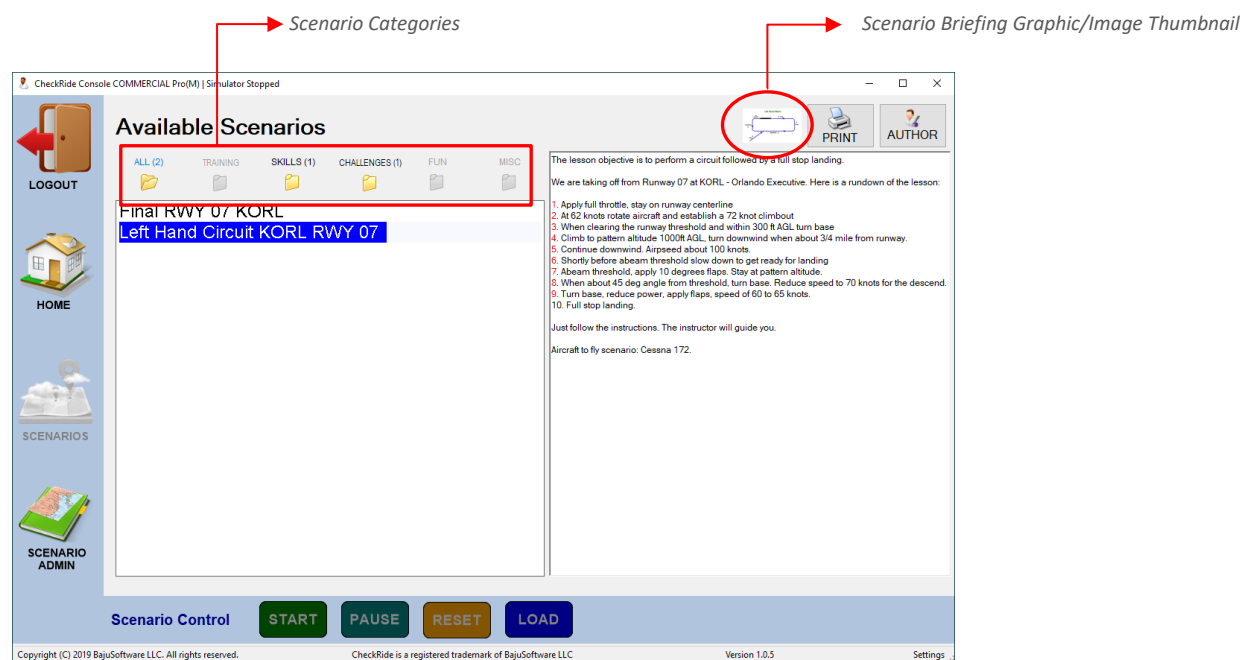
STARTING A SCENARIO

Select a scenario from the list. The selected scenario will display the briefing and an optional briefing image. You can also filter the scenario list by using the *scenario category buttons*. They show how many are in each category and are only enabled if at least one scenario is in the category.

To start the scenario, it has to be loaded (*LOAD* button). This will initialize the simulator for the selected scenario. This means that

1. Your aircraft will be placed at the starting position of the scenario (this can also be in mid-air!).
2. The weather is set as specified in the scenario (this can be overwritten by Console options and is also optional)

In order to be able to load a scenario, a connection to the simulator has to be established. This can be verified by checking the header of the Console. It should show '*Simulator Running*' or '*Simulator Paused*'. If '*Simulator Stopped*' is displayed, a connection to the simulator could not be made during the startup of the Console. Make sure your simulator is running. For further information, review the *CheckRide® Installation Manual* or inform your system administrator.



AUTHOR clicking on this button shows you information about the author of the scenario. This information can be used to contact the author for any questions, problem reports etc.

PRINT Print the briefing to the configured device or PDF.

Thumbnail If a scenario briefing includes a graphic or image, click on the thumbnail to enlarge it.

START Starts the scenario and switches to the scenario run screen (see next page).
The START button will only become enabled once the simulator has finished setting up the scenario after pressing the LOAD button.

PAUSE Pauses the scenario. A scenario has to be started before the button will be enabled.
 To continue after a pause, press the *START* button.

RESET This button resets the scenario back to its starting point. This allows you to start it again or make another scenario selection.

LOAD Load the scenario into the simulator and prepare it for *START*.

THE SCENARIO RUN SCREEN

As soon as a scenario is started, the scenario run screen is displayed. Depending on the scenario difficulty set by the author (or overwritten by system settings), certain information is displayed:



There are up to three blocks of information available to be shown during the scenario:

1. A moving map showing your position and altitude. The map will also show in red any positional objective you have to reach. This will be updated as you progress through the scenario, but only shown if the Scenario Step Preview is also displayed (set in the scenario as a difficulty or overwritten in system settings).
2. A display containing up to 2 lines of information. This is a display that has been configured by the scenery author as a reminder of the instructions or other information pertinent to the current scenario objective.
3. The Scenario Preview Information. This box contains information about what you have to perform in order to progress to the next step. This can include reaching a certain position, an altitude, an airspeed or a heading or a combination. Setting radios to the correct frequencies or reading back radio communications can also be part of an objective. The top part is what the requirement is for this step, the bottom part ('*Current*'), shows the actual values. Any positional requirements are drawn on the map as red-dotted areas.

In the example above, we have to be outside of the marked area on the map and reach an Altitude of greater than 250ft AGL. The current values indicate that one of those conditions have been met, the Altitude as we are at 373 feet. But we are still inside the marked area.

Each objective has a timeout. If you don't fulfill the objective before the timeout period expires, you fail the scenario, continue to the next step or a new scenario is loaded. This depends on how the scenario has been designed. The timeout and current expired time are displayed in seconds next to **Step Timer**.

Note: Not all three blocks of information might be visible. This depends on the scenario as it determines what information is displayed. You might only get the line display or the map, or nothing at all. This is part of the difficulty setting for each scenario.

Continue following the instructions, voice prompts etc. until you reach the end of your scenario.

THE SCENARIO DEBRIEF SCREEN

Once a scenario has been completed, the debrief screen will be shown.

Professional Versions only: When you load a user's history, this screen will also be displayed to review the scenario.

You will see the flightpath flown in yellow and below under the map, an altitude profile.

There are several functions available to give details about the scenario flown:

- Yellow line shows the flight path flown.
- Yellow altitude profile below map.
- Each step in the scenario is flagged by a dot and a description of the time elapsed and the name of the step.
- Red dot and step name indicate a failed interrogation/monitor step.
- Drag the map for a better view
- Inspect the flight path
- Inspect the steps performed
- Center the map
- Export the flight telemetry
- Print a Debrief Report
- Replay the flight
- If scoring has been enabled for the scenario, the score will also be shown next to the [Playback] Button:

4 buttons on the top right of the map are available. Use those buttons to interact with the map:



Select Mode: Used to 'hover' over flight path to get flight progress information and clicking on the step to display step information (*see below for more information about the select mode*).



Drag Mode: Used to 'drag' the map for better viewing. This is the default mode. Drag the cursor to move the map. (Hold mouse down or tap and hold and drag map)



Zoom Mode: Zoom the map to enlarge/reduce the map. Drag a rectangle to enlarge an area. Hold mouse down or tap and hold and drag to draw a rectangle for zooming. Drag from left to right to enlarge (zoom in) or right to left to reduce (zoom out).

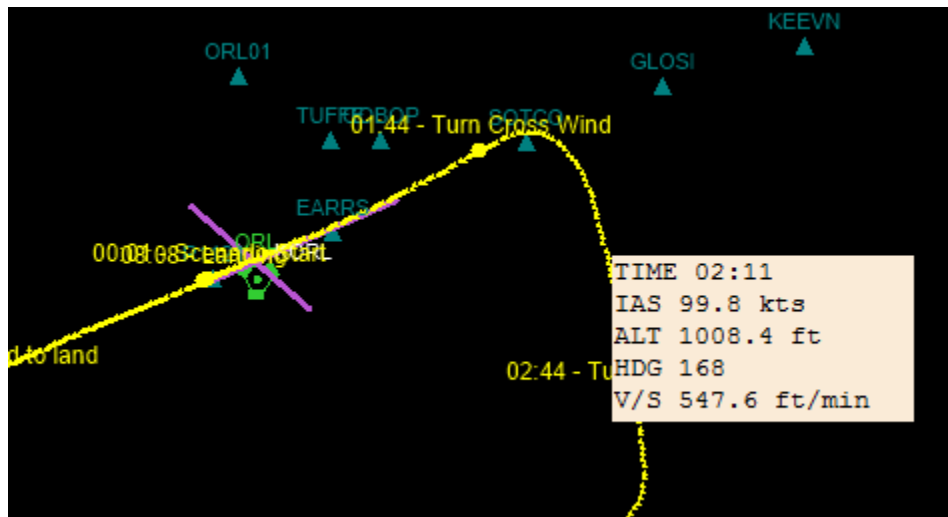


Center Mode: Center the map to the flight path. Click/tap on it to center the map. (Useful if you get 'lost' on the map)

In addition to those buttons, there are also 2 Zoom Buttons for Zooming in or out.

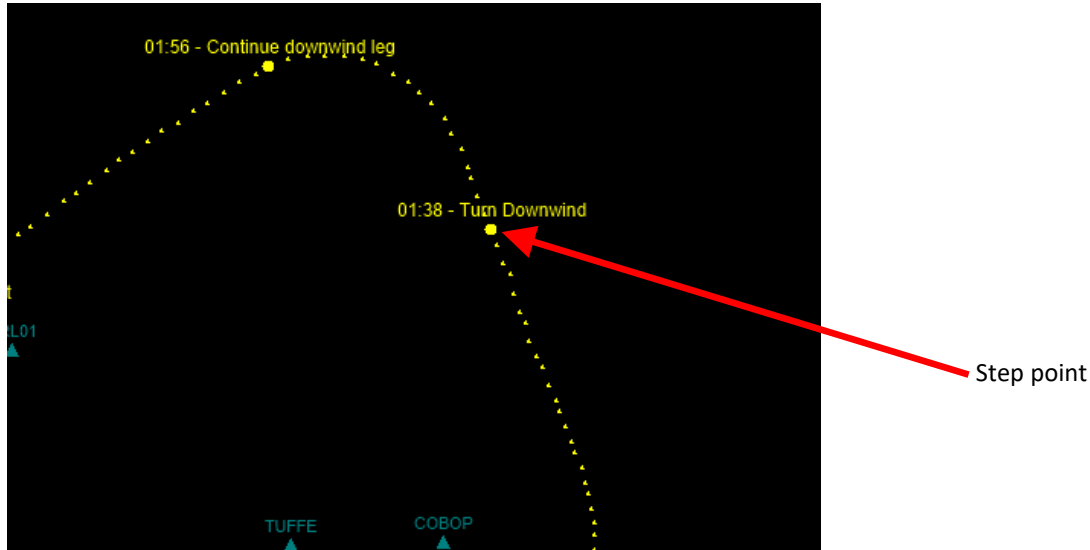
Select Mode

There are two functions in the select mode, 'hovering' over the flight path and step information. When the cursor is over the flight path ('hovering'), information about the elapsed time, airspeed, altitude, heading and vertical speed is displayed for that point in the scenario:



Hover over flight path.

Clicking on a step point will display the scenario step that has been performed. It displays the triggers for the step and the step activity that has been performed.



The following information is displayed to the right of the map:

Time Elapsed
01:38

Step
Turn Downwind

Trigger
Trigger
DISTANCE >= 0.8nm

Flight
DISTANCE = 0.8nm

Activity
Play Voice Script

Instructor: Turn downwind now. Your heading should be 250 for the downwind leg.

Time Elapsed:
the elapsed time since start (*minutes:seconds or hours:minutes:seconds*)

Step Name:
Name of Step: *Turn Down Wind*

Trigger:
DISTANCE: a distance greater than 0.8 nm from a point has to be reached
There can be multiple triggers per step. *See appendix for a list of possible triggers.*

Flight data that fulfils trigger requirement.
Shown is the distance fulfils the trigger condition.

Activity performed for the step.
Here a *voice script* was played. *See appendix for a list of possible activities.*

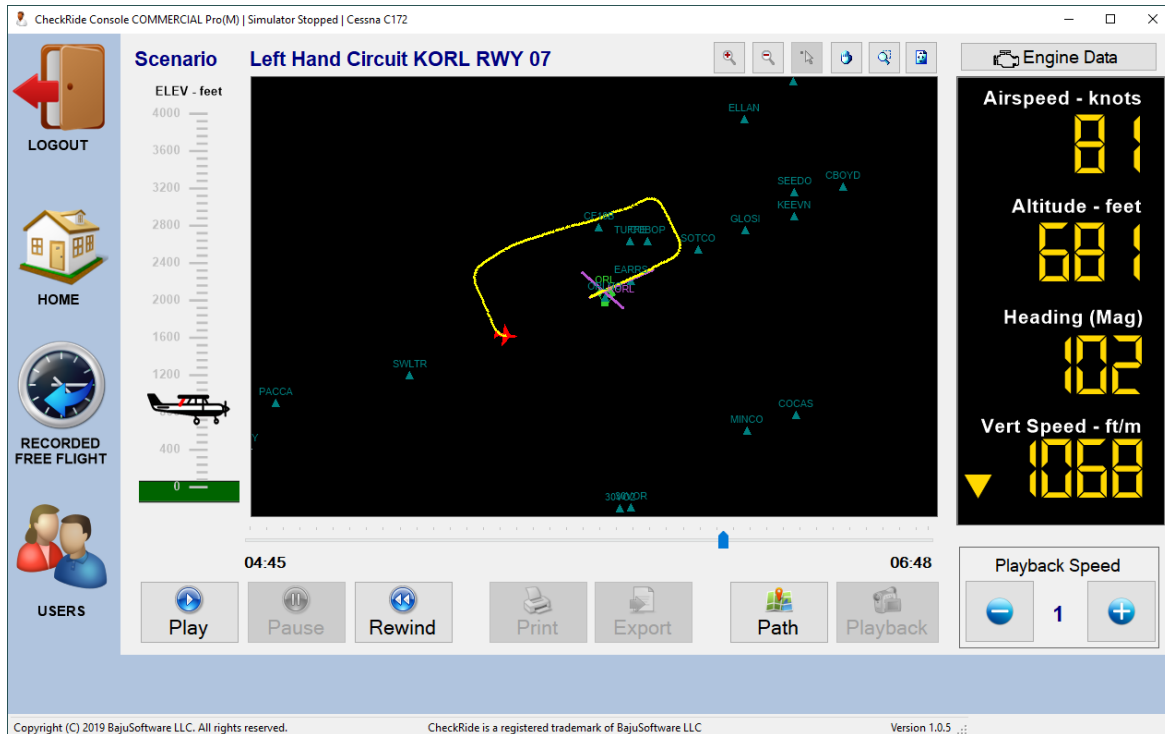
The actual spoken voice output by the Instructor

There are 2 more buttons on the bottom of the screen:

Export Exports all flight telemetry to a CSV (Comma Separated Values) File. This file can then be used for further flight analysis using a different program, like Microsoft Excel. The file is saved to the Windows Desktop.

Print Print a debrief report. The report will be shown or printed directly to the printer, depending on settings configured.

Playback Start the playback function. It plays back the flight progress on the moving map and shows telemetry data on the right-hand side:



There is also an elevation reference display that shows the aircraft elevation (GPS) and the ground elevation (green). The aircraft symbol changes when the gear has been retracted (if equipped) and when flaps are lowered:



Aircraft gear down or fixed gear, no flaps.



Aircraft gear up, no flaps.



Aircraft gear up, flaps deployed.



Aircraft gear down or fixed gear, flaps deployed.

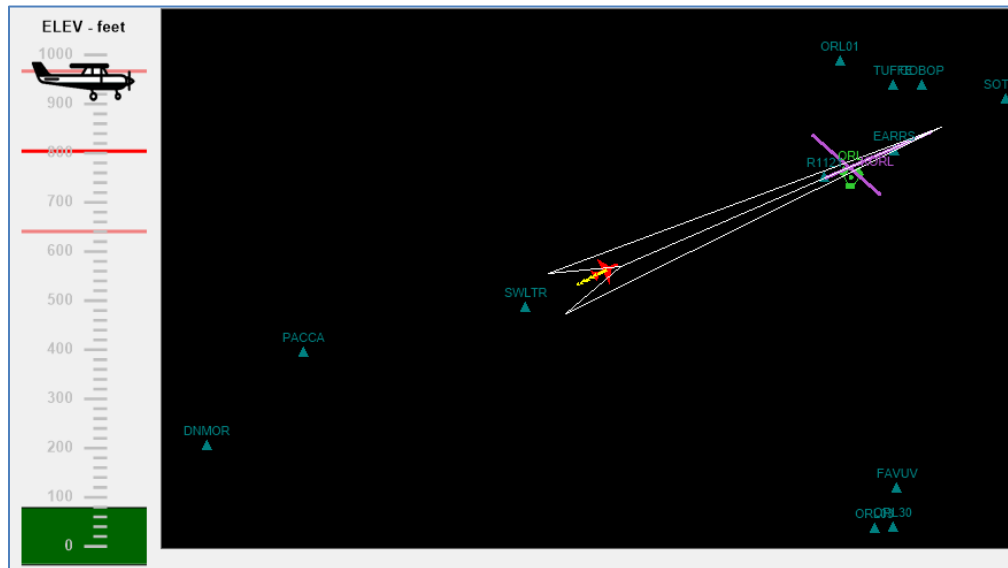
Or



Helicopter (The symbol can be configured in *Settings* for aircraft or helicopter).

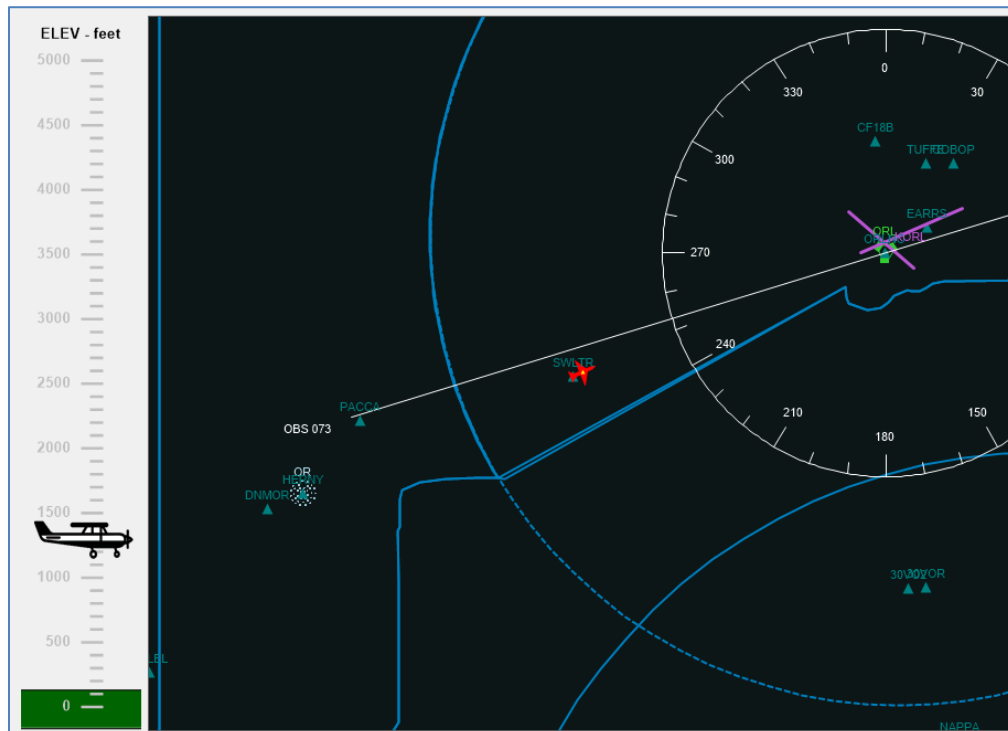
Glideslope & Localizer Display

If you have tuned a Nav Radio to the *correct ILS frequency* during the scenario and the radio has received a *valid localizer/glideslope signal*, the playback screen will show a localizer graphic on the map and glideslope indicator in the altitude display. Unlike in the *Scenario run screen*, this information is always shown.



There are 3 lines to indicate the glideslope. The middle line shows the 'On Glideslope', the upper and lower are the upper and lower boundaries of the glideslope (in 'faint' red). As you get closer to the touchdown point, the bars will move closer together as the glideslope band narrows the closer you get. For ILS facilities with a localizer only (no glideslope), only the localizer graphic will show in the map. If the scenario includes a RNAV approach, a similar graphic will be drawn showing the RNAV approach track and glideslope when the aircraft is within 20nm.

VOR Display



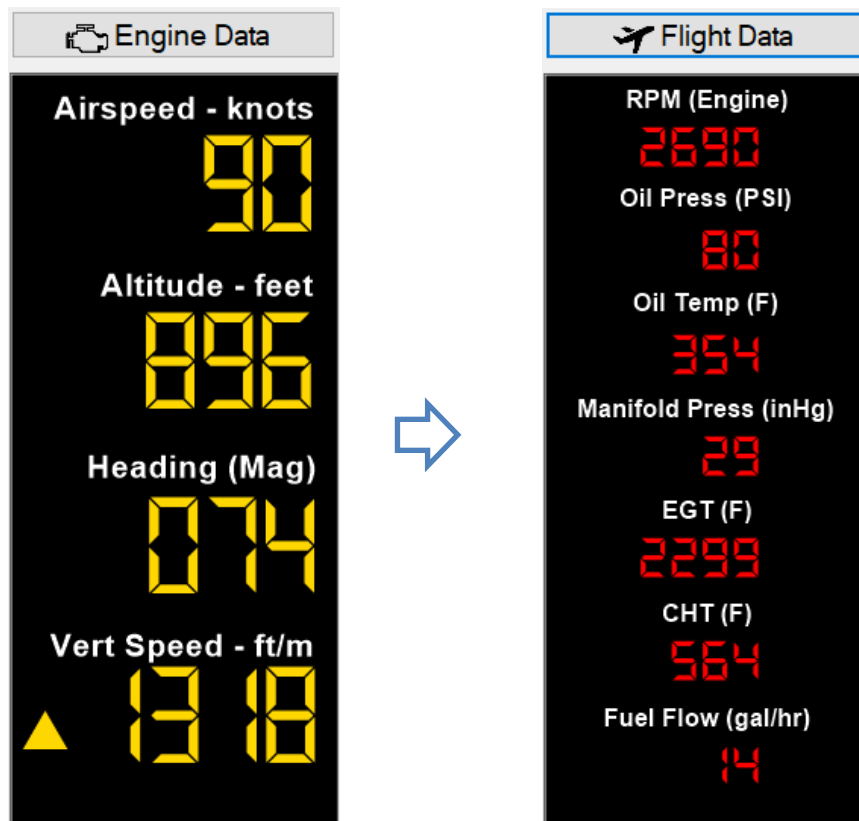
If you have tuned a VOR station and are in range, a VOR Compass with OBS indicator is drawn on the map.

Playback functions:

- Play** Starts the playback
- Pause** Pauses the playback – click Play again to resume
- Rewind** Rewinds the playback to the beginning.
- Export** Exports the flown scenario to a CSV File on the Windows Desktop
- Print** Prints a report about the flown scenario.
- Path** Returns to the flight path display

- When the playback is paused, you can slide the trackbar to go forward or backward.
- Playback Speed can be changed by using the [+] and [-] buttons in the playback speed control.
- The map buttons on the top right of the map can also be used to drag, zoom and center the map. The select button only works in the flight path display and is disabled here.
- You can click on **Engine Data** to show Engine Performance Data
- Click on **Flight Data** to show Flight Data again.

Note: The example below shows a single engine aircraft's data. For twin engine aircraft, the display also includes the 2nd engine.

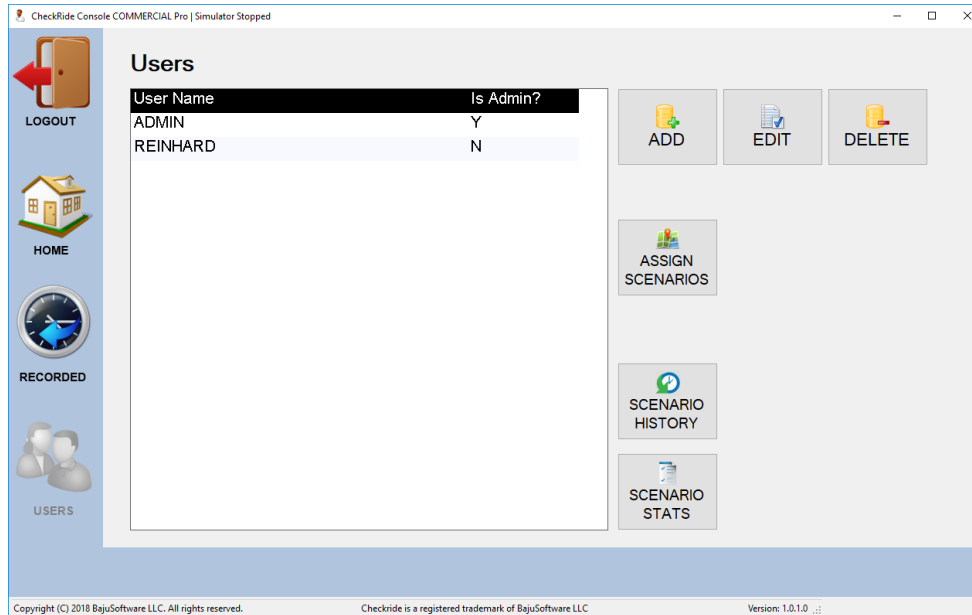


Once you are finished with the debrief, click on the [Home] button on the left to return to the main screen. Now you can select a different scenario or logout.

USER ADMINISTRATION

This section only applies to the *Commercial Pro* Version. User administration allows you to maintain a group of students with their own login. You can assign scenarios to them and track their progress.

Select the User Admin function (you need to login as administrator first):

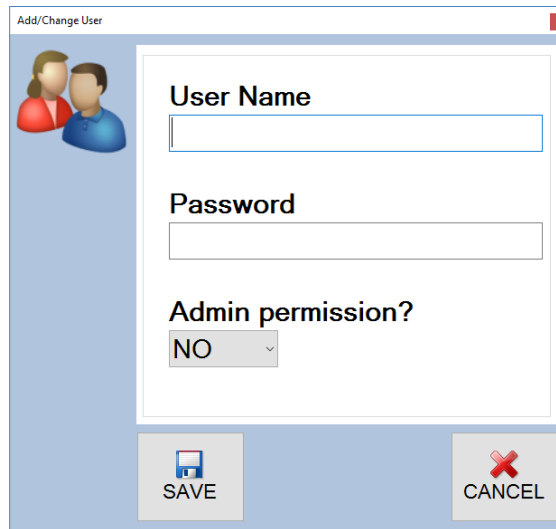


- ADD** add a new user
- EDIT** change existing user – select a user from the list first.
- DELETE** delete user from the Console. **Attention!** This also deletes the user history!
- ASSIGN SCENARIOS** assign scenarios to selected user
- SCENARIO HISTORY** shows each scenario flown by the selected user
- SCENARIO STATS** summarized statistics for each scenario for the selected user

The following pages contain a detailed description for each function.

ADDING USERS

Click on the [ADD] button. The following entry screen will appear:

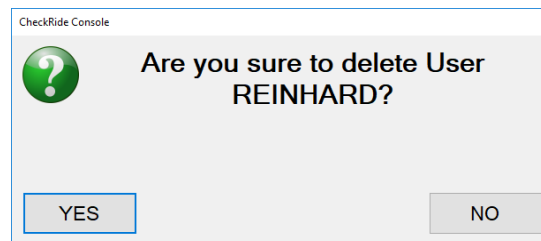


Enter the user's login name and password. You can also give the user admin privileges by using the dropdown and selecting 'YES'.

Click on [SAVE] to save the information, otherwise [CANCEL] cancels the operation.

DELETING USERS

Select the username in the list (it will be highlighted by a blue bar) and click the [DELETE] button. A confirmation dialog appears to confirm your action.

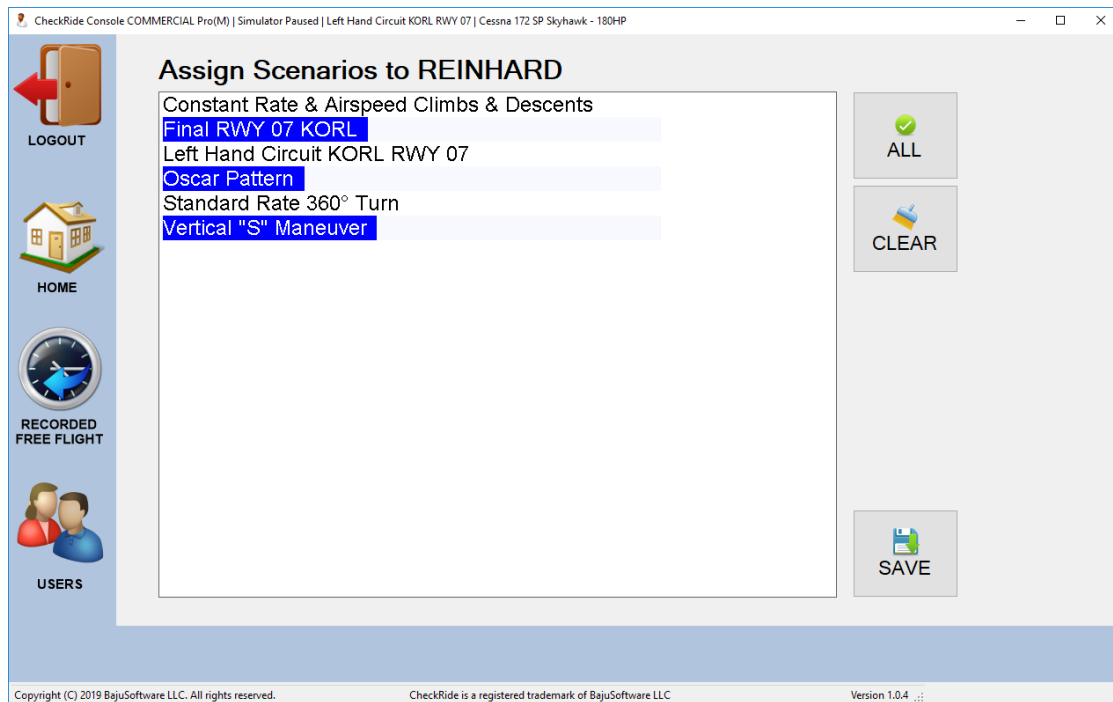


Attention! Deleting a user also deletes all user history!

ASSIGN SCENARIOS

Before users can select scenarios, they have to be assigned to them. Users with administration rights have all scenarios available.

Select a user from the list, then click on the button [SCENARIOS]:



Every scenario that is available to the user is highlighted with a blue bar. In the example above, *Final RWY 07 KORL*, *Oscar Pattern* and *Vertical 'S' Maneuver* is assigned.

When a user logs in, only assigned scenarios will be shown. If a user with admin privileges logs in, all scenarios will be shown.

Now click on each scenario that you wish to assign; they will be highlighted in blue as you click them.

- [ALL] assigns all scenarios listed to the user
- [CLEAR] clear all assigned scenarios from users
- [SAVE] saves the assignments you have made.

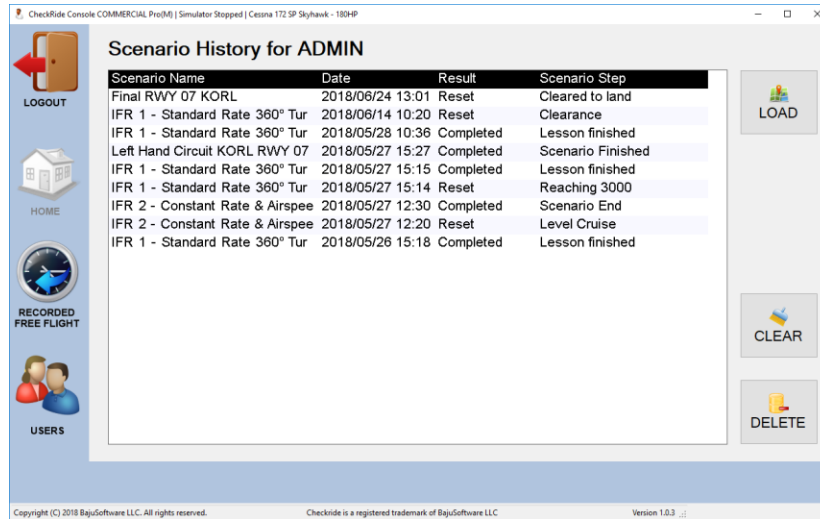
To go back to *Users* **without** making any changes, click on [USERS] on the left main menu bar.

SHOW SCENARIO HISTORY

The scenario history shows each scenario that has been flown by the selected user. It contains the date and time, the result of the scenario and the last step performed.

Note: The scenario History is also available in the *Home Pro Version* and can be accessed from the main menu.

Select a user and click on [SCENARIO HISTORY]:

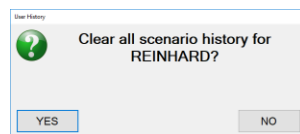


This example shows scenarios that have been flown at different times. It lists the date and time and what the result was. The Result can be one of:

- Completed** A scenario has been flown from start to finish.
The *Scenario Step* column shows the last step in the scenario.
- Failed** A scenario objective has not been met and the scenario was aborted as a result.
The *Scenario Step* column shows which scenario step (objective) has not been met.
- Reset** User has reset the scenario before finishing it (pressed on the [RESET] button).
The *Scenario Step* column shows before which scenario step (objective) it has been reset.
- Crashed** The user crashed the aircraft and the scenario was aborted.
The *Scenario Step* column shows before which scenario step (objective) the user crashed.

The following functions are available:

- LOAD** Loads the currently selected history/scenario for replay/review.
(See chapter *The Scenario Debrief Screen* for a description)
- DELETE** The currently selected history record will be deleted
- CLEAR** All history records will be deleted from selected user. Selecting this option will require a confirmation:

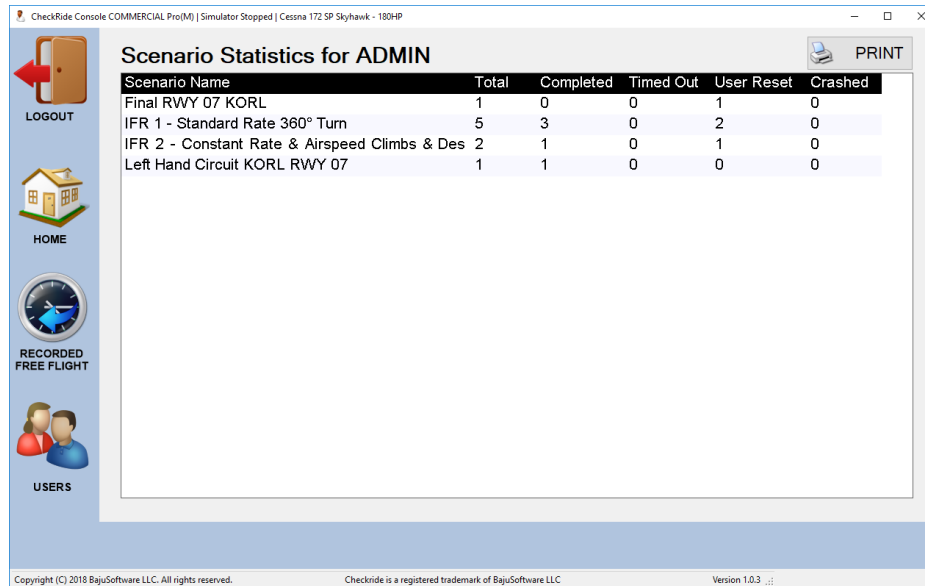


To return to the *Users* screen, click on [USERS] in the left menu bar.

SHOW SCENARIO STATISTICS

As opposed to the scenario history, the statistics screen summarizes all scenario records by scenario. Each scenario is listed once with a count of each result achieved.

Select a user and click on [SCENARIO STATS]:



Scenario Name	Total	Completed	Timed Out	User Reset	Crashed
Final RWY 07 KORL	1	0	0	1	0
IFR 1 - Standard Rate 360° Turn	5	3	0	2	0
IFR 2 - Constant Rate & Airspeed Climbs & Des	2	1	0	1	0
Left Hand Circuit KORL RWY 07	1	1	0	0	0

Click on [PRINT] to print the information displayed on the screen to the configured printer.

To return to the *Users* screen, click on [USERS] in the left menu bar.

APPENDIX

TRIGGERS

The following triggers are available within the CheckRide® Scenario system:

<u>Follow On</u>	This is not a trigger as such, but the step follows immediately the previous step.
<u>Timer</u>	Time expired from previous step performed.
<u>Location</u>	A location or distance to/from a feature that has to be reached specified by Lat/Lon coordinates or an area on a map or an ILS/RNAV procedure has to be followed.
<u>Performance</u>	The aircraft has to be above/below/between at a certain speed, altitude, vertical speed and/or heading. In addition, the aircraft situation can also be a trigger (pitch, roll, yaw).
<u>Avionics</u>	Com/Nav Radios have to be set to the correct frequency or the transponder to the correct squawk code or OBS Radials have to be tuned to the correct direction.
<u>Systems</u>	Aircraft engine controls, landing gear, flaps and lights.
<u>Speech</u>	The user/pilot has to speak the required phrase/word(s).

ACTIVITIES

When a trigger condition has been met, one of the following activities in a scenario will be performed:

<u>Play Voice Script</u>	Voice output will be performed. Those are typically instructions to the user/pilot from the virtual instructor.
<u>Direction</u>	Direction and turn instructions will be given via voice output.
<u>Set Avionics</u>	Avionics and radios will be set automatically (like radio frequencies etc.)
<u>Failure</u>	An aircraft system failure is initiated or cancelled. This activity has an optional randomizer meaning that it will not happen every time the scenario is flown.
<u>Weather</u>	The weather condition is changed (Clouds, wind etc.) This activity has an optional randomizer meaning that it will not happen every time the scenario is flown.
<u>Interrogate</u>	Various flight conditions are interrogated and a follow-on activity can be triggered if the specified flight conditions have not been met. Flight conditions that can be interrogated are the same as for triggers listed above (except 'Follow On').
<u>Start Monitor</u>	Similar to Interrogate, but the monitor can interrogate a condition throughout the whole scenario. <i>Interrogate</i> checks a condition only once.



**BajuSoftware CheckRide® Console
User Manual Version 1.7.X**

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