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Car Simulation

Module tutorial



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1. GENERAL

1.1. Description

CAR SIMULATION software is an immersive 3D simulation based on virtual reality technology, i.e. it allows a person to be immersed an artificial digitally created world.

CAR SIMULATION software allows you to be a passenger or a driver in a car and to be subjected to the visual scrolling of a landscape.

1.2. Required accessories

VR headset and steering wheel and pedals kit.

1.3. Patient setup

Patients must be seated to reproduce a situation where they would be sitting in a car.

In active driving mode, their hands must be on the steering wheel, and their feet on the pedals.

In passive driving mode, they must be seated.

RECOMMENDATION



During the first session, it is recommended to use the "**Active Driving**" mode to get patients to drive. (Steering wheel accessory required). Once patients "tolerate" the chosen circuit, they can switch to "**Passive Driving**" mode, namely passenger mode, for their treatment.

2. Settings



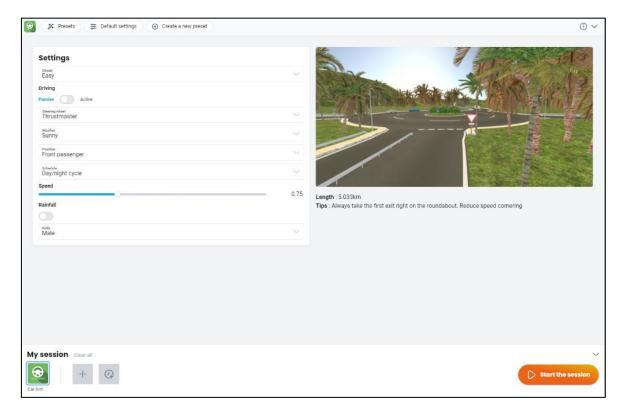
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2.1. Session settings



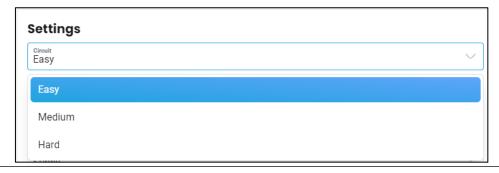
WARNING

If you have both, it is imperative to disconnect the Xbox controller when using the steering wheel. Conflicts appear when both are connected at the same time.



The variable settings for this module are as follows:

2.1.1. Circuit

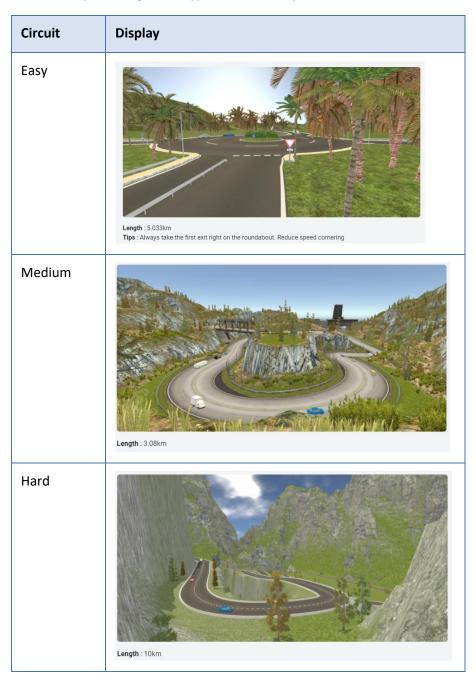




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Environment selection according to difficulty.

According to the difficulty, the length and type of course vary:



2.1.2. Driving

Two driving styles are available: active or passive.





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2.1.3. Steering wheel

This setting is only available in **Active driving**.

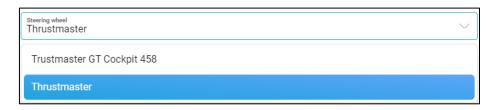


WARNING

The steering wheel shall be the same as the one configured in the administration settings.

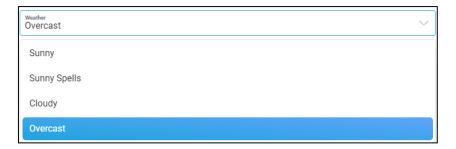
The selection is made directly from a drop-down menu, select:

- Thrustmaster GT cockpit 458 for Ferrari 458 steering wheels.
- Thrustmaster for other references.



2.1.4. Weather

Used to select the weather: sunny, sunny spells, cloudy or overcast.



2.1.5. Position

Used to choose the passenger seat in the car: front passenger, left back passenger or right back passenger. This setting is only available when the **Passive driving** mode is selected.



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2.1.6. Schedule

Used to choose the time of the day: day/night cycle, morning, noon, evening or night.



2.1.7. Speed



- The animation speed is adjustable.
- Value: 0.10 to 2.0

Factor applied to animation speed. 1.0 corresponds to 100 % of animation speed.

- Can be modulated using the cursor.
- Only available in passive driving.

2.1.8. Rainfall

Activates or deactivates rain.



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2.1.9. Body

Choice of the body according to the patient's gender



3. Module

3.1. Session

Once the presets have been selected, click on "**Start the session**" in the bottom right corner of the screen.



In the bottom left of the screen is the animation speed of the car parameter. It can be adjusted during the session if **Passive driving** was selected. Value: 0.10 to 2.0.



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In the bottom right of the screen is the « Exit » button to end the session.

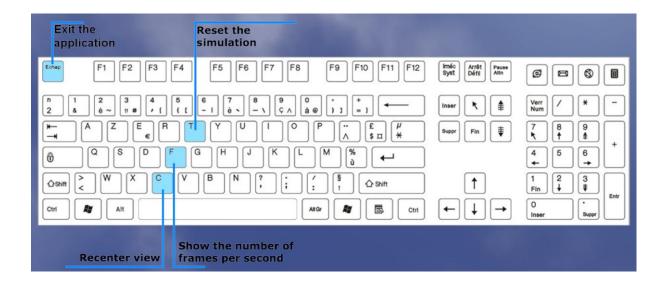
These settings are not visible to the patient.

The patient sees the 3D environment. Depending on the chosen mode, they drive on the circuit using a steering wheel and pedals (controlling speed, cornering, braking, reversing), or they are a passenger in a moving vehicle. Refer to the shortcuts for using the steering wheel and pedals.

3.2. Shortcuts

During the session, the shortcut list is found by clicking on the Xbox controller icon in the upper right corner of the screen.

3.2.1. Keyboard

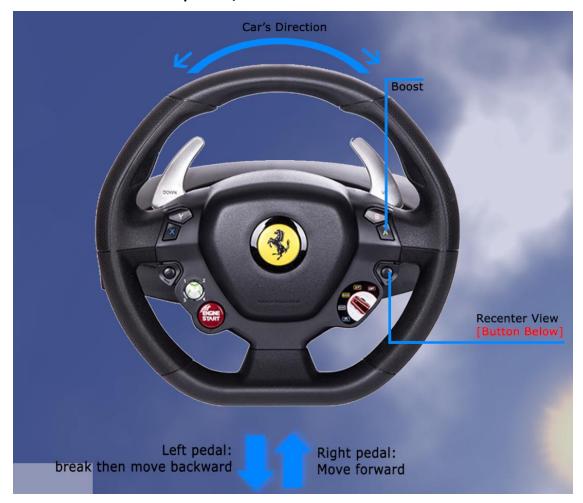


3.2.2. Thrustmaster steering wheels



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3.2.2.1. GT cockpit 458 / Ferrari 458



3.2.2.2. T150



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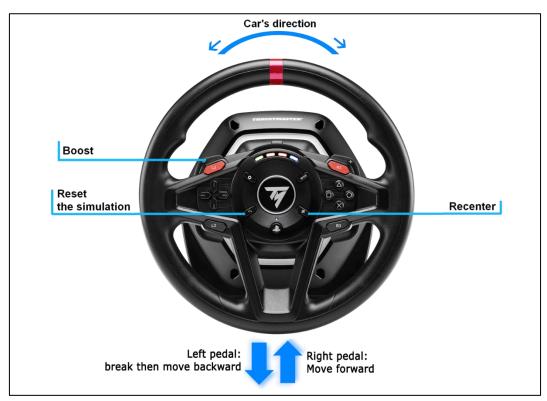
3.2.2.3. TMX



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3.2.2.4. T128





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3.3. Results

Once the session is over, you can view the results.

3.3.1. Summarized results

No summarized results are displayed at the end of the session.

3.3.2. Graphs and report

To find the detailed results and to generate a report, click on the histogram icon.

