



# DRIVING SIMULATORS

2015/2016

## MODELS:

### DESKTOP-SURROUND SYSTEM



## INTERESTING INFORMATION:

- The initial driver training module consists of a large part of formal driver training. It has a virtual instructor, intelligent interactive traffic and an advanced student assessment system.
- Also eco-driving and alcohol awareness modules available.
- In all lessons, the vehicle type can be selected as either a regular car, a city bus, or a truck (tractor-trailer combination).
- In addition to regular driving there's night driving and driving in fog, snow and rain.
- Automatic transmission or manual gear can be selected at any time.
- Have a look at [cs-driving-simulator.com](http://cs-driving-simulator.com). There you can find more information about the advantages of training in a simulator.

The 3-Display desktop surround driving simulator comes with set of a high quality steering wheel, pedals and gear shifter, plus a 3D surround soundsystem and a headtracker. Together this gives a complete driving simulator, with rearview mirrors added within each channel, effectively resulting in a 6 channel system with almost 360 degrees surround view. In addition, there's a professional driver training curriculum. For more information:

<http://cs-driving-simulator.com>

With the help of the TrackIR headtracking system, scanning and mirror checking can be efficiently trained, together with all other driving tasks. The driver training curriculum covers over 50 training sessions that range from elementary vehicle control tasks (steering, braking, lane changing, etc.) to traffic participation tasks (highway driving, roundabouts, etc.) and special circumstances (fog, windgusts, nightdriving, safety awareness, etc.) An advanced virtual instructor gives performance feedback in all lessons. The detailed student assessment system stores performance during all trainingsessions, to give you an overview of all strong and weak points and generate





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### INTERESTING INFORMATION:

- Extensive driver training curriculum.
- 210 degrees horizontal field of view , excellent overview on intersections.
- Simple control of the simulator.
- Additional topview camera to evaluate position on the road and in front of intersections.
- Switch between automatic gear and manual transmission.
- Advanced Virtual Instructor and Student Assessment System.
- Animations of people and animals and unexpected situations: training of hazard perception.

### Advantages of a car driving simulator:

Advantages when used in combination with traditional driver training methods:

- A guaranteed high quality of training for all students.
- Structured transfer of knowledge and training of skills.
- Learning to drive safely is emphasized during the full training.
- Eco-driving is emphasized as well during the full training, which will reduce fuel consumption.
- Training in a safe environment without stress.
- A guaranteed supply of instructive traffic situations.
- Fewer hours in a car on the road: less fuel consumption, beneficial to the environment.
- Increases capacity of the driving school.
- Special circumstances, such as nightdriving, snow and rain.

### A very complete driver training curriculum:

**Vehicle control:** 17 lessons on vehicle control skills such as starting and stopping the engine, driving off and stopping, two different steering techniques, gear changing, lane changing, overtaking and passing, driving in reverse gear, parallel parking and bay parking. The emphasis is on scanning techniques (where to look and when), use of indicator, the order of actions, use of controls, and on extensive practice to ensure that all vehicle control tasks become automated, so the trainee can focus more on the surrounding traffic. Also included hill start and stop.

**Traffic participation:** 21 car simulator lessons on scanning techniques when approaching in intersection and turning left/right/driving straight on, merging, negotiating small and larger roundabouts (first, second and third exit), priority rules when approaching intersections, driving on and crossing dual carriageways, entering and exiting highways, driving on rural roads, speed limits, driving in urban environments, traffic lights, extensive practice with negotiating intersections with traffic and different priority rules.

**Special Circumstances:** 9 lessons on driving in fog, being blinded by sunlight, night driving, driving in rain, driving on an icy road, driving in snow.

**Safety awareness training:** 5 lessons on measurement of brake reaction time and braking distance, eco driving, simulation of effects of alcohol on driving, and awareness of effects of distractions such as texting and driving.

**Databases:** 13 simulations where the driver can drive freely through a set of 13 databases.