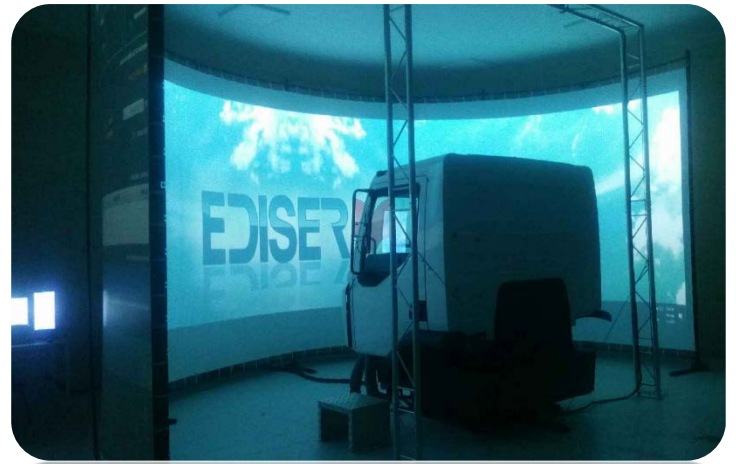


EDISER Full Scale Truck Simulator / 37091-CAB



GENERAL SPECIFICATION

EDISER FULL SCALE TRUCK (Heavy-Good Vehicle – and Bus incl.) driving Simulator is a fully instrumented Cabin mounted on a motion base and fitted with a highly sophisticated and immersive visual system. This simulator is intended for novice as well as experienced or professional drivers training. It exists in several configurations (different marque and motion bases and viewing systems are available) and custom-made design are possible. To manage the whole system (simulator + software) the training instructor can use a special Tablet PC or the external control desk (both delivered and very easy to use). It is a very high-quality simulator using the cutting-edge Technology.

Usually the Simulator is built from the following Marques: → RENAULT TRUCK PREMIUM DXi7
→ IVECO standard Short Cabin
→ SCANIA standard Short Cabin

In any case, on demand it is possible to deliver the simulator with some other Marque or Model (DAF, VOLVO, MAN...).

2 Motion Base available: → 6 DOF MOOG MOTION BASE
→ 6 DOF D-BOX based MOTION PLATFORM

3 Viewing System available: → 3 front Box Screens + 3 Projectors
→ 1 Circular “curved theater” Screen + 3 projectors
→ 2 Ultra HD Flat TV fixed in the windshield + 2 short distance projectors on the R and L windows

EDISER full scale simulator is suitable for:

- C and D category driving license training
- Professional driver’s periodic training (initial and on-going training): CPC, Cod95
- Eco-driving training
- Road traffic safety and hazard perception
- Refresher courses

It improves drivers training and helps Training Instructors in analyzing trainee’s skills and behavior towards specific events or exercises in realistic conditions. It also contributes to sustainable development of companies or training establishments (fuel saving) and helps to reduce the use and maintenance cost of their vehicles.

Ediser full scale simulator is in accordance with the “DIRECTIVE 2003/59/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 July 2003 on the initial qualification and periodic training of drivers of certain road vehicles for the carriage of goods or passengers and has been certified by the French “Arrêté” (Directive) of the 23rd of May 2013 (art.5 – subpar. II) by the French Ministry of Transport regarding the Initial and Periodic training of professional truck and bus drivers.

TECHNICAL DESCRIPTION

Dimensions and Weight of the Cabin	Height (of the cabin):	1700 mm
	Width (of the cabin):	2400 mm
	Depth (of the cabin):	1600 mm
	Weight (of the Cabin):	800kgs to 900 kgs
	Space required to install:	From 15m ² to 40m ² according the Viewing System
Dimensions of the Motion Base	Standard Height of the Motion Base:	565 mm
	Maximum Height:	655 mm
	Weight:	Approx 80Kgs
Total Dimension of the Simulator (Cabin + Motion Base and its mounting support)	Height:	2600 mm
	Width:	2400 mm
	Depth:	1600 mm
	Weight:	about 1 Tonne (without the Viewing System)
VIEWING SYSTEM	H x W x D	According the model and kind of the Viewing System

TECHNICAL FEATURES

Simulator's Body Frame	Full Scale Truck (and Bus incl.) driving simulator Color: White or Black Fully equipped with active OEMS Controls. Fully functional OEM Parts and dashboard with active vehicle controls Fully activated Instrument cluster of the Truck
Dashboard & Active Controls	Fully functional OEM Parts and active controls Gears: - Manual OEM Gear: 8 Speeds + Rear + Cruise - Automatic Gear OEM Clutch, Brake and Accelerator Parking Brake Steering Wheel (47cm diameter) with powerful force feedback Light Set (Main Beam Headlights, Indicators light, Dipped headlights...) Horn Windscreen wiper Electric Retarder (TELMA) Dynamic Braking Rear-View Adjust Button: Electronically Adjustable Rear-View (adjusting in the software) Pneumatic Truck Seat, adjustable by Air Compression Safety belt with roll-in and closure detector (detected by the soft)
Panoramic Viewing System	According the selected Viewing system
Audio and Sound Generation	The Software generates a stereophonic sound representation of the vehicle, the engine, the traffic and the environment. The sound and noise of the engine, of the starter, rolling and tires, parking brake, turn signals, engine speed... and the other components of road traffic are all faithfully generated.
Compressor	The simulator is also equipped with an ultra-quiet compressor allowing: - The management of the parking brake valve - The management of the air suspension seat - The management of the coupler locking and connecting hoses (tubes) as the original
Dynamic Motion Base	EDISER Standard dynamic motion platform (with 4 D-Box actuators) can reproduce in real time the movements and driving sensations of a Truck or Bus in his environment according to the actions performed: acceleration, deceleration, pitching and rolling are all faithfully restored. Vibrators also restore the irregularities of the road vibrations and jolts (curb, pothole, speed changes, skid ...). The motion system gives also feeling of force feedback and ensures a better immersion.

COMPUTER SPECIFICATION**Training Instructor's Control DESK and computer devices and Configs.**

2 PC's: 1 Main PC dedicated to the Simulator and 1 for the control-desk management
4 to 7 DELL Monitors
Intercom System to communicate with the driver
Double webcam system + Video Player to watch and monitor the driver remotely
1 Printer
PC Unit (Graphic card NVIDIA GTX 1060)
Windows Seven Pro or Windows 10 (64 Bits)
Tablet PC under Android (instructor mobile station)
Keyboard – Mouse – Head set
Router modem / Inverter module and Power Breaker

SOFTWARE SPECIFICATION

Name: **ROAD STAR PL**

The Software includes 6 vehicles:

- Semi Trailer Truck (420hp + trailer 16,5m)
- Straight (Solo) Truck (15t. 420hp – trailer 9m)
- Tanker (multi compartments - <16,5m)
- Road Train (Straight Truck 420ch + Trailer 18m)
- Urban Bus (300 ch – 12m)
- Travel Bus (330 ch – 12m)
- Additional Vehicles: available on Request (e.g. Emergency truck vehicles)

Various and affluent environments (400km²) that are suitable for every kind of training:

- Tracks (testing track)
- Country Roads
- Mountain Roads
- Highways
- Urban agglomeration (City Centers)
- Tunnels
- Industrial Areas
- Deserts (with the Arabic version)

Diversity of scenarios and Realism of driving situations:

- Software environment: 400 km²
- Hundreds of scenarios (5221 scenarios combination)
- 3 Variations for each scenario
- Classification of scenario by « Theme »
- Classification of scenario by « Favourite » (to classify or sort the favorite scenarios)

Wide choice of weather conditions:

- Each scenario by « Rainy » weather
- Each scenario by « Sunny » weather
- Each scenario by « Fog »
- Each scenario by « Night »
- Each scenario by « Snowy » weather

ROAD STAR PL provides a wide range of tools for a better analysis and education:

- Recorder (to Replay the scenarios and situations, in slow-motion, sped up, or looped...)
- Markers (waypoints to find driving mistake, accident or failures)
- Various angle cameras (zooming – 360° around the vehicles)
- Analysis of safety distance
- Analysis stopping distance
- Analysis of reaction time

Driving and Measurement Tools:

- Several Cameras – Internal and External View (Side view, Front view, back view, from above)
- Traffic Density: High or Low
- Guidance tool: ground marks, trajectory, path, distance between the vehicle and obstacles...

Synthesis and Statistics Summary:

- Driving synthesis (main statistics, CO² emission, fuel consumption...)
- Driving Errors (by typology)
- Events (analysis of emergency and risky situations, driver skills, anticipation, reaction times)

MANUAL and GUIDE / DOCUMENTATION

Documentation The Training Instructor's « User Guide »
 Software Manual (pedagogic content)
 The Patent
 Certificate of Origin

VIDEOS AND PICTURES

Software Presentation Video <https://www.youtube.com/watch?v=AKb7O97q-p4>

Simulator demonstration Videos <https://www.youtube.com/watch?v=1lbyMaYxezA>
 https://www.youtube.com/watch?v=eE_n-nm5QDk
 <https://www.youtube.com/watch?v=yD2ZacctYFk>



Tablet PC
Instructor's Mobile
Control Station



Instructor's Control
Desk

