

EDISER « Simu PL » - 37091



GENERAL PRESENTATION

Ediser “Simu-PL - 37091” truck and bus driving simulator is an efficient and innovative truck and bus driving simulator for novice as well as experienced or professional drivers training. It is an easy-to-use compact simulator mounted on a Dynamic Motion Platform (Optional) and fitted with an immersive visual system and sophisticated computer and Tablet PC. The “Simu-PL” is an advanced driving simulator with modified cockpit and driving station with active Renault Truck Premium OEM Parts.

The “Simu-PL” 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 Simu-PL” 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, amending Council Regulation (EEC) No 3820/85 and Council Directive 91/439/EEC and repealing Council Directive 76/914/EEC” 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 In utilization	LENGTH (of the Simulator) :	2000 mm
	LENGTH with Viewing System (3 x TV’s):	3000 mm
	HEIGHT (of the Simulator):	2650 mm (Height of the Seat), 1630 mm (Height of the Body)
	Height of the Viewing System:	2260 mm (maximal height of the TV’s).
	Width of the Simulator :	1180 mm or 790 mm (when the protective cover and footboard are dismantled)
	Space required to use :	12m ²

Dimensions In transport condition	Length of the Simulator :	2000 mm
	Width of the Simulator :	1180 mm or 790 mm (when the protective cover and footboard are dismantled)
	Height of the Simulator (Seat Folded):	1950 mm
	Weight maximal :	550 kgs
	Width of the TV Standers:	750 mm (x 3 Stander)
	Height of the TV Standers:	2000 mm (x 3 Stander)
	TV Packaging :	1500 mm x 900 mm (x 3 cartons)

TECHNICAL FEATURES

Simulator's Body Frame	One-piece Body Simulator Color: Grey Footboard: 3 steps to seat down Front protective cover hiding the computer devices and the main PC Pneumatic Seat (Adjustable and foldable) 4 lockable wheels
Dashboard & Active Controls	Fully functional RENAULT TRUCK PREMIUM OEM Parts and active vehicle controls Gears: - Manual OEM Gear: 8 Speeds + Rear - Automatic Gear OEM Clutch, Brake and Accelerator Parking Brake Renault (DMAC 23) 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) Premium Renault Truck Seat, adjustable by Air Compression Safety belt with roll-in and closure detector (detected by the soft)
Panoramic Viewing System	3 x 55 inches HD Flat-TV Screens 3 x TV Stander (adjustable height) Area of projection: 3 meters recommended Immersive Field of vision: - From 120 ° to 180 ° horizontal field (60 ° to 90 ° left, 60 ° to 90 ° right) (what make the entire windshield and the bulk of the side windows - left and right). - And 45 ° vertical field - The rear view: the mirrors are integrated in the software and adjustable from the driving station.
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	The 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**Computer Devices**

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
Main PC: Motherboard MSI Z77 (or equivalent) - Processor core I7 3770 à 3,5 Ghz (or equivalent)
4 GB memory ram DDR3 - Hard Disk Drive 500 GB - Power Supply Corsair 700W

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)

TECHNICAL DOCUMENTATION

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

VIDEOS AND PICTURES

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

IMAGE LIBRARY

