

Single-Screen Heavy Vehicle Driving Simulator

A single-screen static driving training system for commercial vehicle training, vocational colleges and professional driving schools.



A heavy-vehicle cockpit, physical pedals and gear controls, and a 34-inch curved screen support basic controls, road driving and safety practice in a controlled environment before real-vehicle training.

Display system

34-inch curved display

Gear selection

Manual with high / low range selection

Product form

Static

Vehicle class

Heavy / commercial vehicle

Driving layout

LHD / RHD confirmed per project

Production lead time

Approx. 2–3 weeks after payment

Photographs and software screens illustrate configurations; the final delivery scope is defined by the confirmed order.

Product overview

Reduce basic-training consumption

Practise repeated starts, gear changes, braking and observation on the simulator to reduce fuel and mechanical wear on training trucks.

Prepare beginners before road training

Learn the larger steering wheel, three pedals, gears and vehicle dimensions before training in a real truck.

Complex roads and weather

Practise urban, motorway and mountain driving in rain, snow, fog and at night, supplementing conditions that are difficult to arrange consistently in real training.

Induction and refresher training

Support new-driver orientation, refresher practice and staged college teaching and assessment preparation.

Driving scenes on one screen

A 34-inch curved screen displays the driving scene, with software mirrors supporting road observation and basic control practice.

Support consistent instruction

Support consistent basic teaching for transport operators and colleges; vehicle types, scoring and reports depend on the delivered software.

Hazard and emergency training

Use simulated brake failures, fatigue and unexpected events to practise hazard recognition and appropriate responses.

Continuous indoor training

Reduce dependence on outdoor areas, weather and vehicle schedules to organise equipment and teaching time more flexibly.

Standard hardware and options

Heavy-vehicle seat and static base	Standard equipment × 1
Heavy-vehicle steering wheel and steering system	Standard equipment × 1
Clutch, brake and accelerator pedals	Standard equipment × 1
Manual gear controls with high / low range	Standard equipment × 1
34-inch curved single-screen visual system	Standard equipment × 1 set
Simulation computer	Standard equipment × 1
Driving simulation software	Standard equipment × 1

Project configuration

Vehicle type, driving layout, software scenarios, instructor workstation, VR and motion options are confirmed for each project and order.

Software features

Software is configured with the hardware, covering basic controls, manoeuvres, road driving, hazards, scoring and driving aids, with language and course adaptation available by market.

LHD / RHD

Matched left- / right-hand-drive hardware and software

The cockpit can be configured for left- or right-hand drive. The software viewpoint, instruments and control logic follow the selected layout to match physical and virtual driving positions.

- Left- or right-hand-drive cockpit
- Viewpoint matched to the hardware
- Coordinated instruments and control logic

Basic control training

Steering, gears, accelerator, brake, parking brake and lights practice.

Manoeuvring exercises

Reverse parking, parallel parking, curves, right-angle turns, hill starts, narrow gates, manholes, uneven roads, gear changes and single- or double-sided bridge exercises.

Road and weather environments

Town, city, motorway, mountain and gravel roads; night, rain, snow, fog and day/night changes, with corresponding weather effects.

Hazard and emergency training

Scenarios include alcohol and drug impairment, fatigue, speeding, brake failure, unexpected events, noise distraction, traffic direction and yielding to ambulances.

Scoring and training results

Detect stalling, red-light violations, lane crossings, collisions, speeding, unfastened seat belts, unreleased parking brakes and harsh acceleration or braking; record exercises, distance, fuel use, scores and error counts.

Result storage and printing

Results can be saved locally and printed. Local file formats depend on the delivered software version.

Driver assistance

Single- or triple-screen support, dual mirrors on one screen, live pedal and gear indicators, mini-map and point-to-point navigation and route checks.

Languages and system extensions

One software interface language is preinstalled: English, Arabic, Spanish, Romanian or Ukrainian, selected at order confirmation. VR, motion platforms and instructor workstations are available as extensions.

This page shows only a selection of software features and interfaces. Features may be added or modified in future software versions. The delivered software version and feature set are subject to the order confirmation.

OPTIONAL SYSTEM

Instructor workstation interface

Monitor terminal status, assign tasks to one or several simulators and review learner results and errors. Functions and terminal capacity are confirmed by project.

Vehicle types, languages, display arrangements and extensions are confirmed with the order. Custom features, timescales and fees depend on project requirements.

Technical specifications

Standard specifications Default delivery scope for this model	
Vehicle class	Heavy / commercial vehicle driving training
Product form	✓ Static Dynamic Static:fixed base without motion feedback.Dynamic:A 3DOF or 6DOF motion platform can reproduce vehicle attitude and motion feedback.
Display system	34-inch curved display
Standard colour	Black; other colours can be customised by project and confirmed with the order
Overall dimensions	1530 × 850 × 1310 mm
Net equipment weight	120 kg
Packing dimensions / gross weight	1600 × 920 × 1230 mm (L × W × H); gross weight approx. 220 kg
Power supply and consumption	Standard input: AC 220 V (±10%), 50 Hz; power consumption approximately 600 W. Power input can be adapted to local supply standards, including AC 110 V. Voltage and frequency must be agreed at order confirmation and recorded in the final specification.
Computer configuration	Intel Core i5-6500; Gigabyte H110M-S2PH; GTX 1660 6 GB; 8 GB RAM; 128 GB SSD Reference configuration; brands and models may vary with availability and are confirmed in the final order specification.
Pre-installed software language	One software interface language is preinstalled: English, Arabic, Spanish, Romanian or Ukrainian. Select the language at order confirmation.

Steering force feedback	DC motor force feedback as standard; servo motor force feedback optional
Steering wheel rotation	From centre: 720° left and 720° right (2 turns each); total rotation 1440°
Gear control	Manual gear controls with high / low range selection
Physical controls	Heavy-vehicle steering wheel, clutch / brake / accelerator pedals, parking brake and combination switches
Operating environment	0–35 °C; 20%–80% RH, non-condensing
Optional extensions Not included as standard; confirmed by project	
Servo motor steering force feedbackOptional	Optional servo motor steering force feedback; the standard configuration uses a DC motor
Motion platformOptional	A 3DOF or 6DOF motion platform can be configured; platform type, payload and motion parameters are confirmed per project
VR headsetOptional	VR headset and display solutions available by project; models, software compatibility and scope are confirmed for the application
Instructor workstationOptional	Instructor workstation available by project; hardware, management functions and terminal capacity are confirmed for each order
Software customisationOptional	Software customisation available; features, lead time and cost are agreed for each project

Delivery and support

Production lead time

Usually about 2–3 weeks after payment, subject to the confirmed order and configuration.

Export packing

One export wooden crate per unit; see the specifications for packed dimensions and gross weight.

Factory testing

Software, hardware and overall operation are checked before dispatch.

Installation and training

A user manual is supplied. Remote installation guidance and operator training can be provided when required.

Warranty and upgrades

One-year hardware warranty. Standard new software features may be upgraded free of charge; confirm applicable conditions with sales.

Remote diagnostics

Remote troubleshooting assistance is available; overseas on-site service is not currently provided.

Project enquiries

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