SANLAB
Learning Technologies

SiMPro3

EXCAVATOR SIMULATOR

VR Compatibility

Lessons and Scenarios

Our simulators include many scenarios as construction machinery recognition, safety measures and advanced using techniques.

- Construction machinery introduction
- Gauges introduction
- Joysticks introduction
- Attachments introduction
- Safety precautions
- Driving and maneuvering techniques
- Moving, stopping and parking
- Lifting applications
- Loading applications
- Scraping applications

Our simulation software allows rapid transition to any working conditions for all scenarios.

- Various terrain conditions
- Various load types
- Various floor conditions
- Various weather conditions
- Various working hours

Monitoring and Reporting

Our simulation software reports all parameters related to evolution of operator.

- Quantity of work
- Duration of work
- Fuel consumption
- Occupational parameters
- Combined parameters

S-LINE 3DOF Motion System

- Portable and lightweight system
- 3DOF motion platform
- Adjustable seat with safety belt and armsets
- Original joystick, pedals and hardware

Minimum System Requirements

Intel(R) Core(TM) i5 | 4 GB Ram | 120 GB SSD Harddisk | NVIDIA GeForce GT1X1050
Windows 7 Pro 64 | Wireless Combo keyboard+Mouse

Physical Dimensions

(Tv and Kiosk Included Dimensions)

LxWxH	240x157x205cm

Electrical Speficitaions(W)

Power Supply: 220VAC, 13,7A(Peak)

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Features

Modern 3D graphics
Realistic physics
Realistic engine rpm, torque and hydraulic pressure calculations
Accurate vehicle transmission simulations
Different set of attachments far the vehicles
Terrain deformation
Detailed reporting
Multiple external camera options far the trainer
Different times of day, work at night selectable by the trainer
Rich selection of lessons to cover all important aspects of the regarding vehicle
Touch screen inputs or full cabin with complete set of physical inputs option
Realistic physical vehicle pedals, levers and buttons
3DOF or 6DOF motion feedback options
Virtual reality support far both Oculus and HTC
Different screen configurations
Physical gauges

Risk & Cost Free Tools by SANLAB Simulation

- Fuel Costs
- Accident Risks to Staff
- Occupational Safety Risk
- Operating Costs
- Maintenance Costs
- Machine Downtime
- Equipment Damage
- Weaher Restrictions
- Worksite Restrictions
- Emission

Reporting

At the end of every training session, a report is created and recorded. This report includes trainer name, trainee name, date, name of the training lesson, successes and mistakes of the trainee as well as spent time and fuel. These reports can be accessed any time and can be printed directly within the simulator software.

Excavator Lessons

- Digging
- Bucket Path Following
- Ghost Bucket
- Lowbed Loading
- Balls on Cones
- Quick Attachment
- Trenching
- Breaker Positioning
- Slalom

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