SANLAB
Learning Technologies

SiMPro3

3in1 CONSTRUCTION MACHINERY SIMULATOR

(BACKHOE LOADER-EXCAVATOR-TELEHANDLER)

Telehandler   Excavator   Backhoe Laoder

VR Compatibility

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

- Equipmeny 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 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 GT1X1650
Windows 10 Home | Wireless Combo keyboard+Mouse

Physical Dimensions
(Tv and Kiosk Included Dimensions)
LxWxH   320x200x250cm

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.

Some Lessons (Backhoe Loader-Excavator-Telehandler)

▶ Slalom	▶ Balls on Cones	▶ Lowbed Loading	▶ Soil Loading	▶ Rock Loading
▶ Hill Driving	▶ Bucket Path Following	▶ Quick Attachment	▶ Object Loading	▶ Trenching
▶ Ghost Bucket	▶ Digging	▶ Breaker Positioning	▶ Fork Loading	▶ Pipe Placement