QUAKELOGIC

QL-Excavator Simulator

(WITH MOTION PLATFORM)

Technical Specifications

Model	QL-Excavator Simulator(with motion platform)
Size	1500*1000*2000mm
Net weight	170kg
Gross weight	290kg
Package way	wooden box
Package size	1600*980*1550mm
Display	3*46inch
Input voltage	AC220V,50HZ
Power	About 1000W
Warranty	3 years

Hardware Configuration:

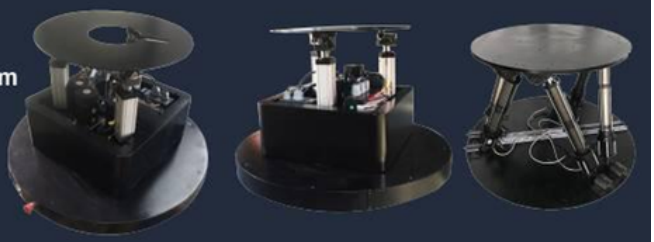
- Hardware computer, integrated circuit board, LCD screen, special seat,direction machine, multi f unctional handle, braking system, multi-functional switch and other components, in line with the r eal operating feel and driving experience, restore a variety of 3D scenes in the real mechanical operation mode.

CONFIGURATION

1. LCD display
Adopting professional grade display or LCD TV (optional size, curved surface, single screen, dual screen, three screen 180 ° viewing angle, five screen)

2. VR and XR glasses
You can choose well-known brand glasses

3. Three degrees of freedom, six degrees of freedom, rotating platform
You can choose to use professional degrees of freedom platforms and rotating platforms

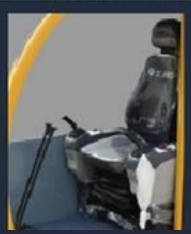


4. Computer
Using top tier brand computers or industrial control computers to ensure quality and meet software usage requirements.

5. Seat
Specially designed for construction machinery, adjustable front and rear, and adjustable backrest angle.

6. Control chip
Independently developed microcontroller programs with high integration and stability.

7. Control assembly
Designed according to the principles of ergonomics, it is easy to adjust and all switches, operating handles, and foot pedals are within reach, ensuring comfortable operation and greatly improving learning efficiency.



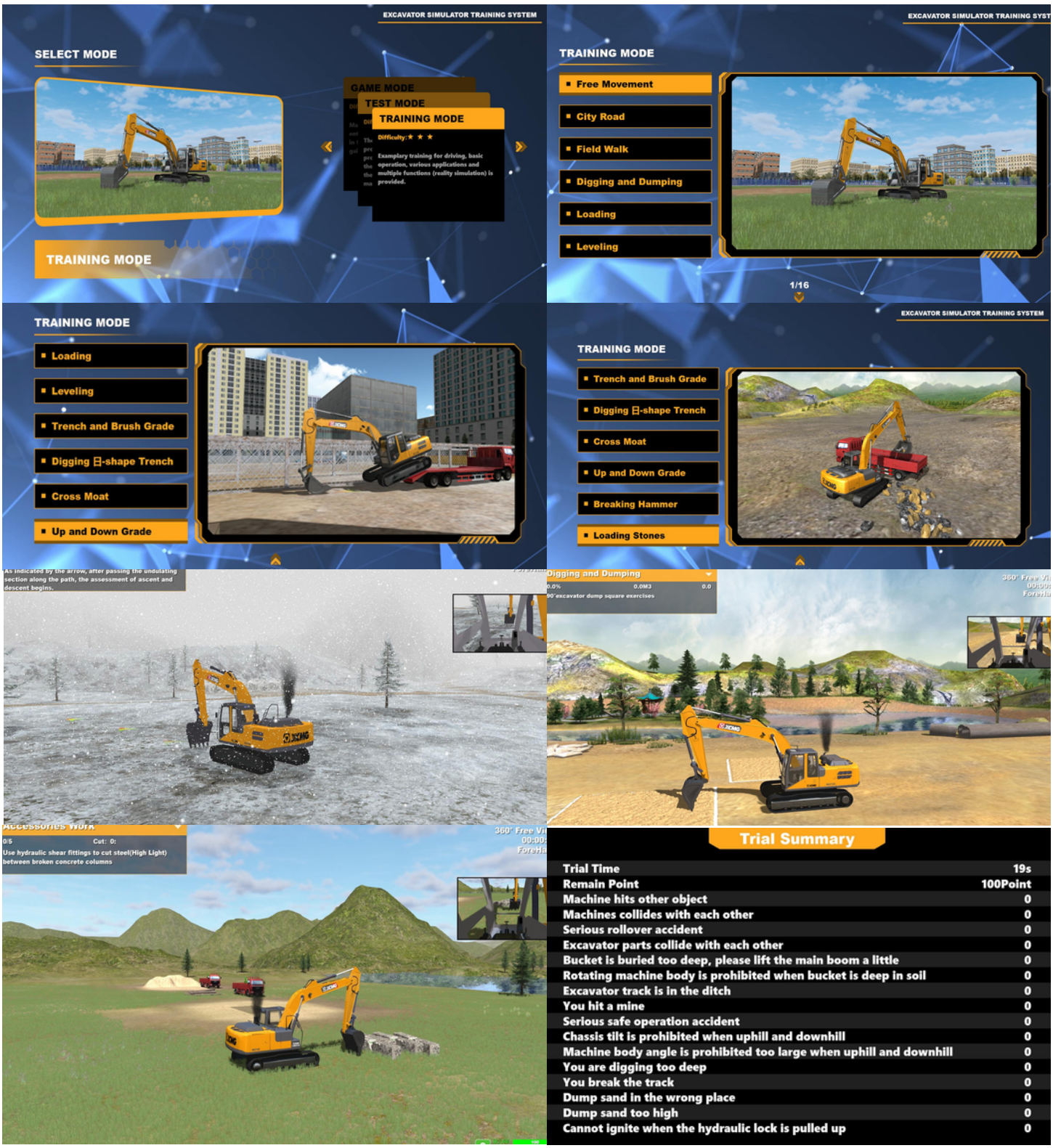
8. Equipment appearance
Appearance industrial design, unique shape, solid and steady. The overall material is made of cold-rolled sheet, which is sturdy and durable.

Software Configuration:

- The software model adopts the mechanical prototype machine to design and manufacture the real-scale 3D model.
- The product was composed by the independent patented high sensitivity operating handle, pedals, high integrated data circuit board and kinds of functional components. It displays the output and the realistic 3dimentional scene which corresponding to the operation associated with the corresponding voice prompts on the video screen.
- It has variety of functions with integrated exercises.
- There are many real time error prompt in the subject ,including text prompt, voice prompt, the screen flashes red, and so on.It helps learners to correct the illegal operation and the wrong actions.
- The product has the speed adjustment buttons .It can realize learners the operation different speed requirement from the foundation stage to skilled stage, making the software more humanity.
- ★ **Training task**

1)Training mode:Free movement, City Road,Field walk,Digging and Dumping, Loading, Leveling,Trench and brush grade,Digging shape trench, Cross Moat ,Up and down grade,Breaking hammer,Loading stones,etc.
2)Game mode:Cross Maze,Mine clearance
3)Test mode:Field walk
The simulation scene of working condition in software is consistent with the working scene of real machine.

Software Configuration:



Why Choose Simulator?

Virtual System Characteristics

- The system has two important characteristics: immersion and interactivity, which are the key c haracteristics to determine whether a system belongs to virtual reality system.

Immersive

- Virtual reality technology is based on human vision, auditory physiological, psychological c haracteristics, a virtual three-dimensional map could be created by the computer. For example, people can be placed in a virtual environment by operating tools and other interactive devices.

Interactive

- Human-computer interaction in virtual reality system is a kind of almost natural interaction, which c an use keyboard, mouse, operation function parts, data handle and other sensing equipment to interact.

The Effective Rate

- Simulation training can greatly reduce risk, cost, unplanned maintenance, improve trainer efficiency a nd maximize productivity
- Helps trainees familiarize themselves with basic machine operations and practice possible emergency s i t uations in a safe environment.
- "Muscle memory" to easily transition to real machine operation.
- Indoor operation, do not occupy the site, not affected by the environment.
- Reducing the "sitting time" on the real plane can save a lot of fuel costs, energy conservation an e nvironmental protection.
- With assessment function, the assessment can test qualified operator.
- Reduced wear and tear on machines used for training.
- Operators gain regular and safe operating habits.
- Provide professional training to equipment owners while saving a lot of money and reduce accidents.

Connect with QuakeLogic –QL–Excavator Simulator (with motion platform)

Corporate Headquarters

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For construction equipment simulation systems, operator training solutions, and heavy machinery safety applications.

Advanced Training & Simulation Solutions

Realistic Training Experience

Delivering immersive excavator training simulations with real-time feedback, motion platform integration, and scenario-based learning environments.

Performance Evaluation & Analytics

Advanced analytics tools provide detailed performance tracking, error detection, and continuous operator skill improvement.

Dedicated Training Support

Providing system setup, operator training, and ongoing technical support to ensure efficient training processes and long-term reliability.

Explore Advanced Construction Simulation Solutions

Scan to Explore QL-Excavator Simulator (with motion platform)

Discover a realistic and data-driven excavator training system designed to improve operator performance, safety, and operational efficiency.

Ideal for construction sites, training centers, and heavy equipment operations, the QL-Excavator Simulator (with motion platform) delivers immersive simulation environments, real-time performance analytics, and flexible training scenarios.

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