

# PORTABLE WELDING SIMULATOR

VR-AR Based Simulator

## VOCATIONAL TRAINING SIMULATOR

SANLAB combines deep expertise in robotics and simulation with a customer-focused approach to deliver industry-leading vocational training simulators.

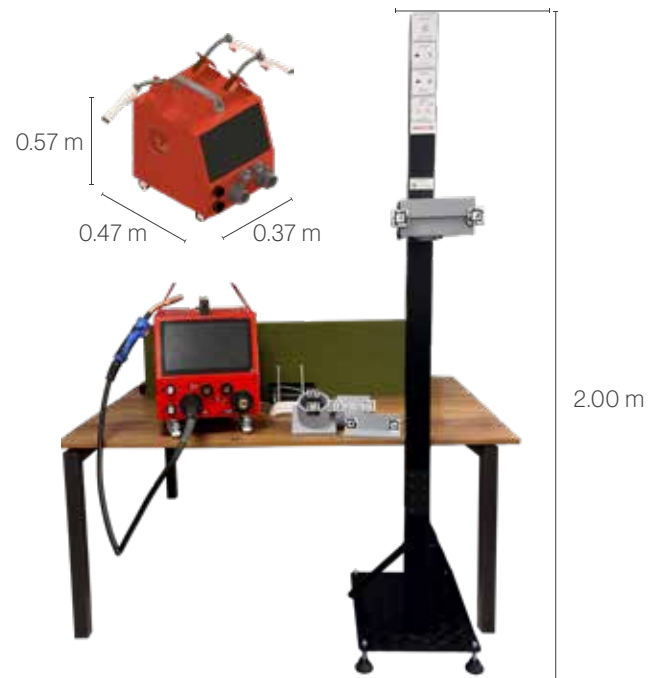
Portable Welding Simulator provides realistic training environment powered by VR and AR technologies, offering realistic training with a highly precise mask and torch motion tracking system. Designed to support skill development in SMAW, MIG/MAG, TIG, and FCAW welding processes.

## APPLICATIONS

- Technical & Vocational Schools
- Industrial Training Centers
- Technical Colleges & Universities
- Shipbuilding
- Automotive
- Aerospace

### VR-AR BASED

- Immersive experience
- Easy setup
- Future-ready



## ADVANTAGES

- Cuts costs
- Eliminates accident risks
- Increases safety
- Lowers operating & maintenance costs
- Protects equipment
- Enables all-weather training
- No worksite required
- Eco-friendly use
- Realistic experience
- Multi-language support
- QR Code Enabled Automatic Calibration System
- Internet Independent Wireless Image Transmission

### DIMENSIONS

|                             |                          |
|-----------------------------|--------------------------|
| Overall Dimensions (L-W-H)  | 0.37 m - 0.47 m - 0.57 m |
| Net Weight (product only)   | 45 kg                    |
| Shipping Dimensions (L-W-H) | 0.55 m - 1.62 m - 0.85 m |
| Crate Weight (total)        | 85 kg                    |
| Packaging Type              | Wooden crate             |

## SCENARIOS

- SMAW-Shielded Metal Arc Welding
- MIG-Metal Inert Gas Welding
- TIG-Tungsten Inert Gas Welding
- FCAW-Flux-Cored Arc Welding

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## VOCATIONAL TRAINING SIMULATOR

### SPECIFICATIONS

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Touch Screen                | 13.3" touch screen                                                                                                     |
| Audio System                | Surround stereo                                                                                                        |
| 4 Real Torchs               | SMAW, MIG/MAG, TIG, FCAW                                                                                               |
| Work Pieces (optional)      | Multiple workpieces                                                                                                    |
| Welding Mask                | AR/VR supported headset                                                                                                |
| Power Supply                | 220VAC, 50 Hz                                                                                                          |
| Minimum System Requirements | Intel(R) Core(TM) i7 - 16 GB Ram - 500 GB SSD<br>NVidia GeForce RTX 3060 - Windows 11<br>Wireless Combo Keyboard Mouse |

### SOFTWARE

- Weld options: straight pass, curved weave, zigzag, triangular pattern
- Weld direction selection: left-to-right and right-to-left
- Support for American (AWS) and European (ISO) welding standards
- Compatible with both left and right-handed use
- Torch angle adjustment for push and pull techniques
- Virtual materials: stainless steel, steel, copper, and aluminum
- Real-time error detection and feedback
- Adjustable parameters: amperage, voltage, material thickness, and wire thickness

### SOFTWARE

- Analysis of position, distance, speed, and angle parameters
- Analysis of penetration, porosity, and spatter
- Session recording, video playback with rewind/fast-forward, angle adjustment, and scoring system
- Student-based data storage and training history tracking
- Customizable scoring parameters with advanced management interface
- Touchscreen interaction without removing the welding mask
- Supported Welding Positions: PA, PC, PF/PG, PE, PH/PJ, H-L045/J-L045, PB, PD, 1F, 2F, 3F, 4F, 1G, 2G, 3G, 4G, 5G, 6G

### OPTIONS

- Full version

### SERVICE & SUPPORT

Committed to customer satisfaction, we deliver tailored support solutions designed to meet your specific operational requirements.



Scenario Screen



QR Code Integrated



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