

# 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.

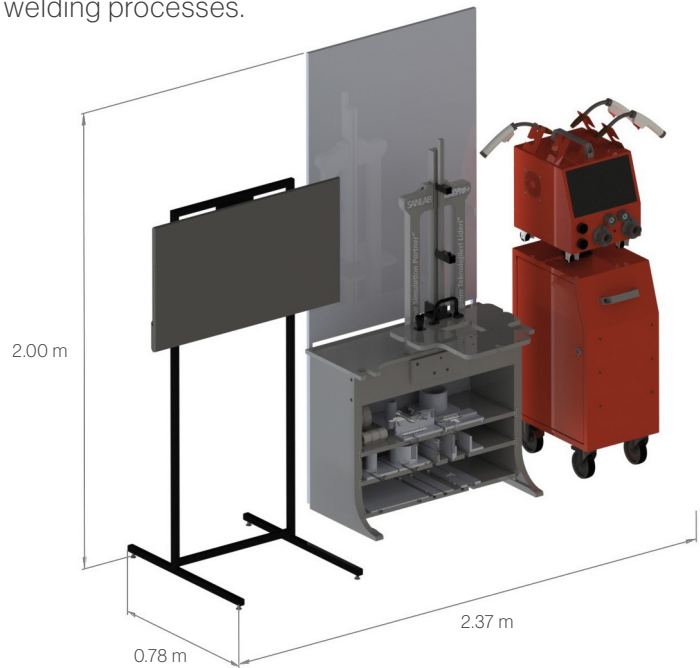
Welding Simulator provides realistic training environment powered by VR and AR technologies, offering realistic training with a highly precise mask and torch motion tracking system. Designed to support skill development in SMAW, MIG/MAG, TIG, and FCAW welding processes.

### APPLICATIONS

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

#### VR-AR BASED

- Immersive experience
- Easy setup
- Future-ready



#### DIMENSIONS

|                             |                          |
|-----------------------------|--------------------------|
| Overall Dimensions (L-W-H)  | 0.78 m - 2.37 m - 2.00 m |
| Net Weight (product only)   | 140 kg                   |
| Shipping Dimensions (L-W-H) | 2.30 m - 2.30 m - 1.30 m |
| Crate Weight (total)        | 190 kg                   |
| Packaging Type              | Wooden crate             |

### 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

### SCENARIOS

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

# WELDING SIMULATOR

VR-AR Based Simulator

## VOCATIONAL TRAINING SIMULATOR

### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Display System              | 43" TV   |
| Touch Screen                | 13.3" touch screen   |
| Audio System                | Surround stereo  |
| 4 Real Torchs               | SMAW, MIG/MAG, TIG, FCAW   |
| Worktable                   | 3 adjustable height levels, 14 different welding parts in various positions  |
| Work Pieces                 | 14+ workpieces with multiple welding positions   |
| Welding Mask                | AR/VR supported headset  |
| Power Supply                | 220VAC   |
| 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

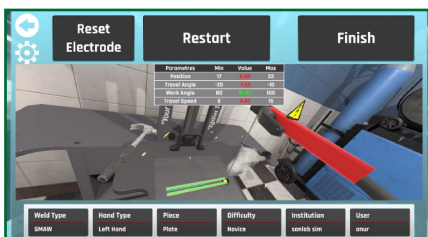
- Analysis of position, distance, speed, and angle parameters
- Analysis of penetration, porosity, and spatter
- Session recording, video playback with rewind/fast-forward, angle adjustment, and scoring system
- Student-based data storage and training history tracking
- Customizable scoring parameters with advanced management interface
- Touchscreen interaction without removing the welding mask

### OPTIONS

- Portable version

### SERVICE & SUPPORT

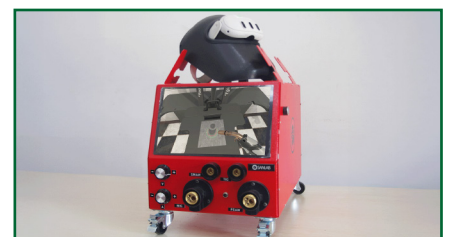
Committed to customer satisfaction, we deliver tailored support solutions designed to meet your specific operational requirements.



Scenario Screen



Welding Simulator



Portable Welding Simulator