Onew360S-MINI Specification

1. Overview Picture

ONEW360S-MINI	
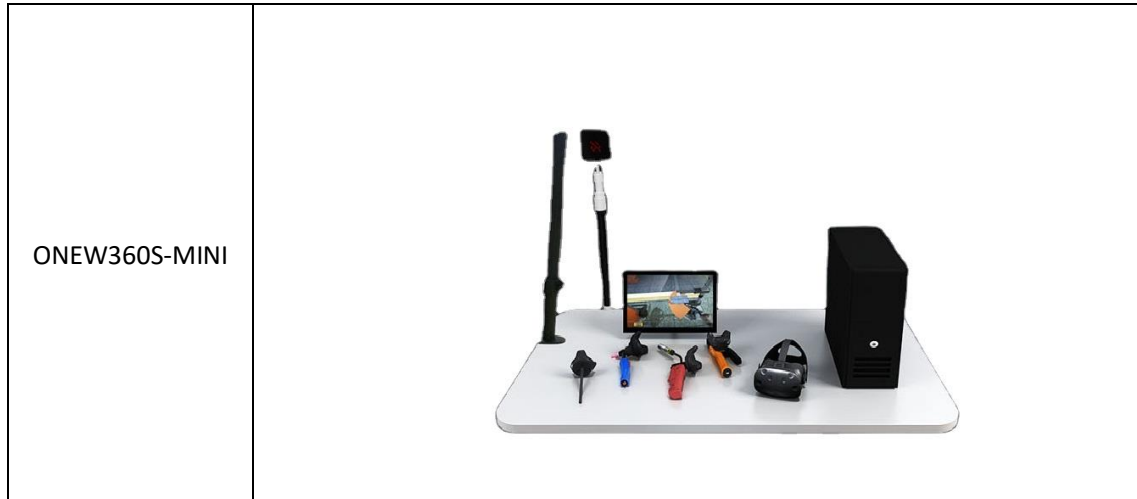
2. Product Introduction

It is a virtual training and evaluating simulation equipment for welding skill learning and testing.

It has training on SMAW, GMAW and GTAW and other welding type.

It has the advantages of environmental protection, energy saving, general welding operation skill training and evaluation of integrated features. Its revolutionary innovation has changed the traditional welding training mode, and it is the leading machine and system for training the welding engineers and workers.

The product uses the low delay efficient acquisition technology, accurate optical positioning and touch the force feedback technology, solved many problems of the traditional welding training. It make the trainer feel real welding process in the simulation and the training process is high efficient.

3. Specification for Vision Helmet：

Display Resolution	1200*1080
Positioning accuracy	1mm
Positioning Space	4.5M*4.5M
Refresh rate	90Hz

4. Specification for Welding Torch：

Positioning Mode	Laser positioning sensor
Positioning accuracy	1 mm
Positioning Space	4.5M*4.5M
Data Transmit mode	Wireless support

Picture	

5. Specification for Functionality：

4.1. Basic Functions

Process simulated	SMAW, GMAW, AND GTAW
Joint configuration	BUTT, FILLET, LAP, PIPE to PLATE AND PIPE TO PIPE
Welding position	1G To 4G 5G To 6G
Inside Tips	Arc Length, Speed, Work Angle, Travel Angle
Defects	Porosity & Spatter
Analysis modes	Video Playback And Report
Evaluation methodology	Objective (Score) / Graphical (Trends) Evaluation
Welding material selection	Carbon Steel, Stainless Steel, Aluminum
Thickness of materials	3.0 , 6.0 & 10.0 mm.
Polarity selection	DC+, DC-, AC
CV/CC selection	Constant Voltage / Constant Current Selection
Shielding gas selection	GMAW: Carbon dioxide, Argon mixture, Argon GTAW: Argon, Helium
Gas speed selection	GMAW(L/min): 10,12,15,20,25 GTAW(L/min): 6,8,10,12,15
Wire speed selection	GMAW(m/min): 1.2,2.0,4.0,6.0,8.0,10.0 GTAW(m/min): 0.5,1.0,2.0,3.0,4.0,5.0
Electrode stick/wire selection	GMAW: Solid Wire , Flux-cored Wire, Al Wire SMAW: E6010, E6013, E7018 GTAW: Wire Feed, No Wire Feed
Electrode stick diameter selection	GTAW(mm): 1.6,2.0,2.4,3.2,4.0 SMAW(mm): 1.6,2.0,2.5,3.15,4.0,5.0.
Wire diameter selection	GMAW(mm) : 0.8,1.0,1.2,1.6
Ghost mode	Ghost welding gun guild the student to train the skills of moving welding gun in right angle, speed, distance.
Traceable training record	Every trainer's history records and playbacks should traceable for future comparison
Training server(optional)	Web based Management System including: Student Management, Class Management, Course Management, Device Management, Homework Management, Exam Management, Notice Management, Consumption Management, Training Report Management, Printing Management and etc.

Certification	CE AND ISO-9001

4.2 Basic Training Course

Arc travel training	Arc ignition, linear arc method, linear reciprocating arc method, zigzag arc method, Crescent arc method, and triangle arc method. Oblique Triangle arc method, Spiral-arc method, arc ending process.
Welding Training	Butt, Fillet, Lap, Pipe to Plate and Pipe to Pipe

4.3 Free Training

Welding Training	Butt, Fillet, Lap, Pipe to Plate and Pipe to Pipe

4.4 Network Functions

login	Login by different trainers. Personalized training and evaluation process.
Training Record Upload	Video Playback And Report upload to server. Need Server to Support.
Demonstration Lobby	Demonstration Lobby can broadcast real-time welding operation from one simulator to other simulators and also can broadcast playbacks. This function is a good way for the teachers to teach welding skills.

6. Extension Function (Optional, Need Extra Charge)

Touch Screen	Touch Screen update
NFC Card Reader & NFC Card	NFC Card Reader and maker. From server write student information into NFC card. And login by NFC Card.
Water Cooling System	All cooling system can be update to water cooling system if customer need.
Server Mainframe	Some network functions need a server mainframe to support.

7. Functions for Server

Training records & playbacks	Training records& playback server storage and management.
Account management	Support Different account login and management of students and classrooms.
Welding knowledge	Welding Knowledge management.
Tasks system	In-class task assignment, homework assignment, exam assignment and management.

8. Contact Information

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