

## Onew-310 Mixed Reality Car Spray Painting Simulator

### Specification

#### 1. Overview Picture



#### 2. Product Introduction

Onew310 mixed reality car spray painting simulator has a simulated spray gun, which can enable students to carry out efficient training of spraying skills in a highly simulated environment, and enable trainers to feel the real spray painting process. The equipment uses the simulated car door as the visual display to effectively interact with the real environment, so that the trainer is in a highly realistic environment, which can effectively promote the trainers to fully participate in the current task.


For experienced trainers, this product system provides a higher training platform to complete a good paint finish through visual, auditory and tactile operation; Spraying products can accurately measure the spray information, trainers can learn the key points from them, and can easily and effectively transform these spray skills into the actual spray painting work.

The car spray painting simulator has the advantages of environmental protection, energy saving and the integration of car spray painting skill training and evaluation. Its revolutionary innovation has changed the traditional spray painting training mode and solved the problems of great difficulty and high cost of traditional spray painting training. It is an advanced solution for training spray painting engineers.

The product applies low delay and efficient acquisition technology, accurate optical spatial positioning and mixed reality technology to solve the problem of traditional spray painting training, so that trainers can feel the real spray painting

process and carry out efficient spray skills training in a highly simulated simulation environment.

### 3. Specification for Spray Gun:

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

### 4. Specification for Functionality:

#### 4.1. Basic Functions

Spray Painting Type	Under Coat Painting, Color Painting, Varnish Painting
Virtual Car Part	Whole Car Parts Virtual Paint
Simulated Car Part	MR Real Car Door
Inside Tips	Distance, Speed, Work Angle, Travel Angle
Coating Defects	Wrinkled, Leak Painting& sagging
Analysis modes	Playback And Report
Evaluation methodology	Objective (Score) / Graphical (Trends) Evaluation
Spray Parameter Selection	Gas flow, Painting flow, Fan Size, Fan Direction
Ghost mode	Ghost spray gun guild the student to train the skills of moving spray 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 Training Course

Spray gun operation	Learn how to use spray gun and parameter adjustment.
Spray Painting Knowledge	Learn the whole spraying process from knowledge center. The process modules and practical operation modules are introduced from preparation, filling and grinding, primer spraying, putty scraping, primer drying, surface coating pretreatment, paint spraying, paint drying, preparation before varnish spraying, etc.
Car Spray Training	Front door, rear door with different car and color

## 5. Extension Function (Optional, Need Extra Charge)

Server Mainframe	Some network functions need a server mainframe to support.
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## 6. Functions for Server

User 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 spray painting operation from one simulator to other simulators and also can broadcast playbacks. This function is a good way for the teachers to teach spray painting skills.
Knowledge	Spray Painting Knowledge management.

## 7. Contact Information

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