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E-CO PAINTER Introduction

Eco-friendly Painting Simulator





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Introduction of **BRTECH**

01. Eco-Friendly Business Management

- Pioneering the development and dissemination of environmentally friendly technologies.
- Empowering all customers using BRTECH's products to lead in environmental sustainability.



02. Continuous Growth for Enhanced Corporate Value

- Establishing a flexible and horizontal management system.
- Solidifying a global management system.
- Addressing problems faced by humanity and society, contributing to the common good.

BRTECH is a company that aims to contribute to human society by providing advanced eco-friendly solutions, and to establish a sustainable societal virtuous cycle.

2024	Dec 02	EcoPainter registered in the NCS for automotive refinishing
	Nov 20	Entry into the U.S. market, adopted by G.U Collision Center in California
	Nov 05	Participation in AAPEX 2025, the largest North American automotive parts exhibition
	Aug 01	Completion of BRTECH's factory construction
	Fed 01	Selected as one of the "1000+ Startups"
2023	Nov 20	Awarded the USF TOP5 Excellence Award in Ulsan.
	Oct 10	Won the Best Award at the Online Export Startup Global IR Competition.
	Aug 03	Raised KRW 500 million from VC.
	May 12	Awarded for meritorious service on Ulsan Automobile Day.
	May 01	E-CO PAINTER entered the Japanese market.
	Jul 01	Groundbreaking of the BRTECH production plant.
	Feb 02	E-CO PAINTER selected as an innovative product by the Public Procurement Service.
2022	Apr 01	Painting Simulator demonstration project for public educational institutions.
	Feb 01	Launch of Painting Simulator and registration of 9 patents.
2021	Apr 01	Commencement of Painting Simulator development.
2020	Aug 08	Establishment of the Painting Simulator division.
	Jun 06	Registration of BRTECH as a venture company.
	Apr 04	Establishment of BRTECH's corporate research institute.
2019	Jan 01	Commercialization of electric two-wheelers and electric transport vehicle battery packs.
	Nov 05	Participation in the Busan Eco Delta City project in the E-Mobility sector.
2018	Jun 06	Export to ERDENET MINING CORPORATION in Mongolia (a conglomerate accounting for 13.5% of Mongolia's GDP).
	Apr 04	Passed the environmental standard test for the small electric vehicle distribution project.
2017	Aug 08	Development and delivery of BMS for small electric vehicles.
	May 05	Development and delivery of electric forklift battery packs.
	Jan 01	Establishment of the Rechargeable Battery Division of BRTECH
	Jan 01	Founding of BRTECH

E-CO Painter Introduction

E-CO PAINTER

BRTECH has been gaining recognition, with the E-CO Painter becoming a popular choice among customers. This eco-friendly painting simulator represents a new generation of extended reality (XR) painting education equipment, surpassing the limitations of traditional painting training. It has been acknowledged for its potential as essential training equipment in various industries, including automotive, aviation, shipbuilding, and space industries.

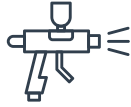
E-CO PAINTER
Demonstration Video



E-CO Painter Stands Out!



Point 1



Ultra-Precision Tracking Technology

The ultra-precision tracking technology digitizes every movement of the spray gun, including angle, distance, and speed.

Point 2



3D Object Display

Real-time painting work is visualized on complex shapes of actual products through 3D mapping and AR sensor matching.

Point 3



Advanced Scoring and Training System

The spray gun's angle, speed, and distance are measured 90 times per second for precision analysis and scoring

1 **60% Enhanced Training Efficiency**

Increase the efficiency of repeat training

Training is conducted using a spray gun that resembles the actual product, equipped with interchangeable subjects and sensors for air pressure, flow rate, and temperature. With 12 embedded sensors in the tracking sensor, it's possible to provide high-quality training through various scoring methods based on spray angle, distance, and speed.

	E-CO PAINTER	Competitors
Spray Gun	Real Spray Gun	Gaming Joystick
Spraying Substance	Water	Virtual
Spray Gun Tracking Device	Absolute Coordinate Tracking Sensor	Relative Coordinate Tracking Sensor
Measurement Method	Based on Real Measured Data	Based on Virtual Predicted Data

2 **Annual Maintenance Cost of U\$ 90**

Power Consumption: 1.1 kwh based on 8 hours per day.

Electricity costs may vary depending on the usage time, but they are limited to a maximum of 1200 w/h, with standby power consumption staying below 100 w/h. The maintenance cost differs based on the amount of water used as the spraying substance. Additionally, the software is supported free of charge for 10 years.

Electricity Costs

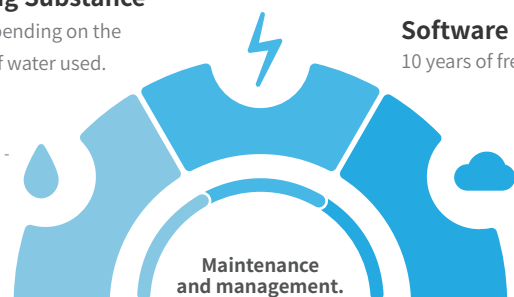
Maximum consumption: Below 1200w/h
Standby power: Below 100w/h

Spraying Substance

Varies depending on the amount of water used.

Software

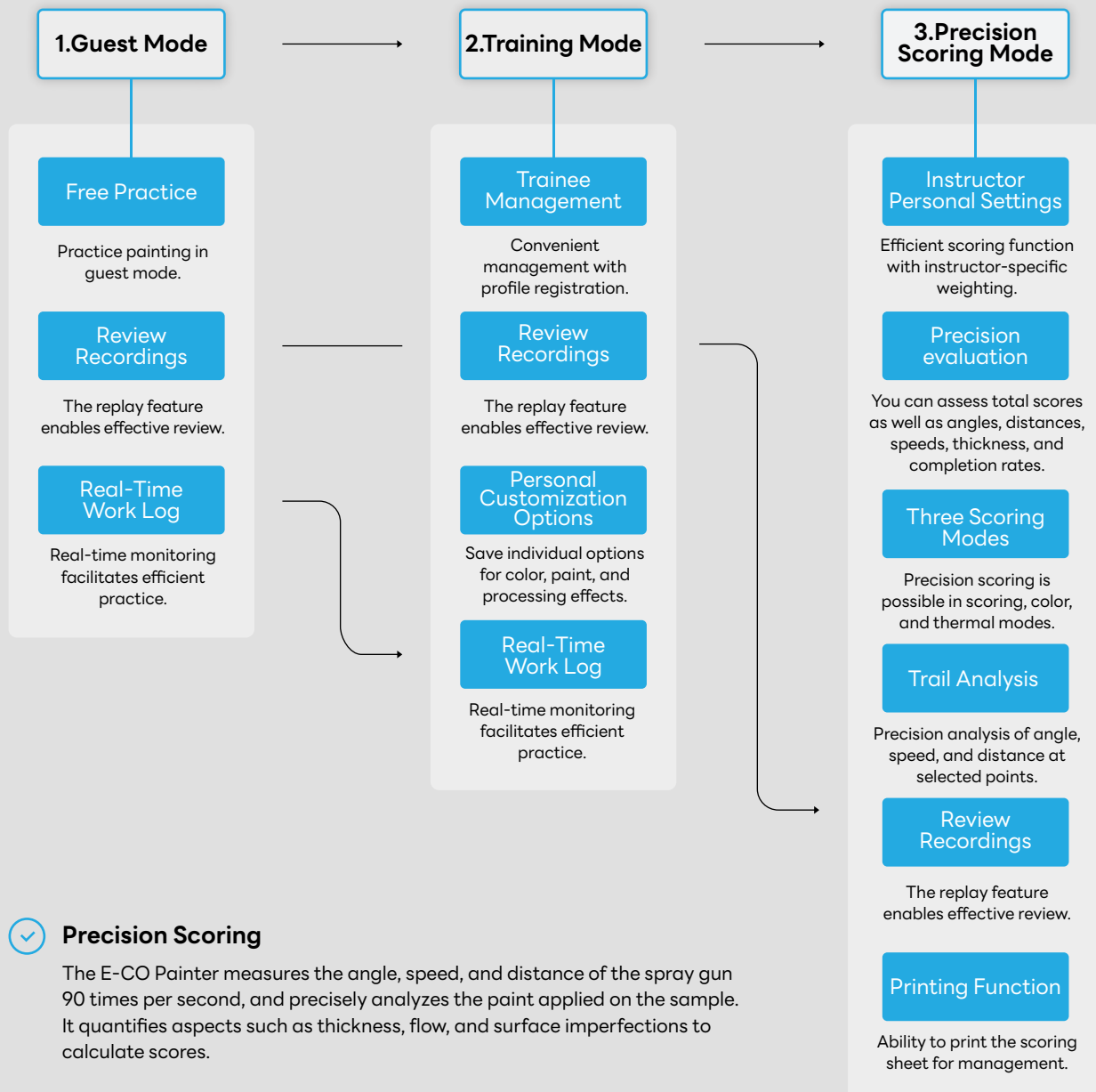
10 years of free support.



Efficient Curriculum

E-CO PAINTER

- Guest Mode, Trainees can enjoy a step-by-step learning experience customized to their abilities in both training mode and precision scoring modes.
- Instructors have the flexibility to define detailed evaluation criteria aligned with the training curriculum.
- Our system allows for systematic registration and record management of trainees, as well as the convenient sharing of painting data.



At-a-Glance Simulator Scoring Sheet

Instructors can finely set various training courses and painting field functions, such as painting methods, stages, spray gun types, evaluation weightage, and criteria.



Individual Profile Management System

With individual trainee profiles, instructors can manage their training more conveniently and effectively.



Moving Forward Together. E-CO PAINTER

 **HYUNDAI**

 **HD현대**


TOYOTA

 **한국폴리텍대학**

 **구미대학교**
GUMI UNIVERSITY


G.U. COLLISION CENTER



 **부산자동차고등학교**

 **자동차분야 평가 1위**
부산자동차직업학교
부산대학교자동차직업학교

 **그린자동차직업전문학교**
Green

3D MUSE

 **한양공업고등학교**
HANYANG TECHNICAL HIGH SCHOOL

 **광주전자공업고등학교**
Gwangju Electronic Technical High School

Examples of E-CO Painter Implementations



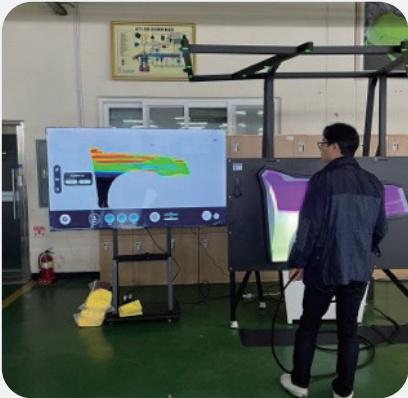
2024
Hanyang Technical High School



2024
Toyota Training Academy



2024
Gwangju Electronics
Technical High School



2024
Korea Polytechnic University
Gangneung Campus



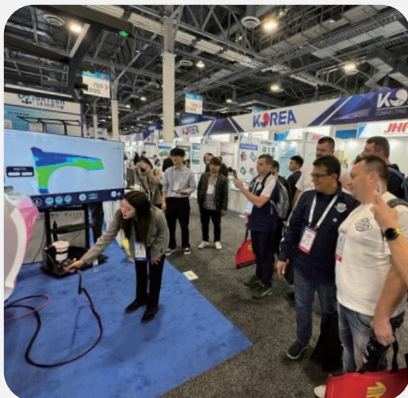
2024
Auto Salon Week



2024
Hyundai Nx Toyota Gaju Racing Festival



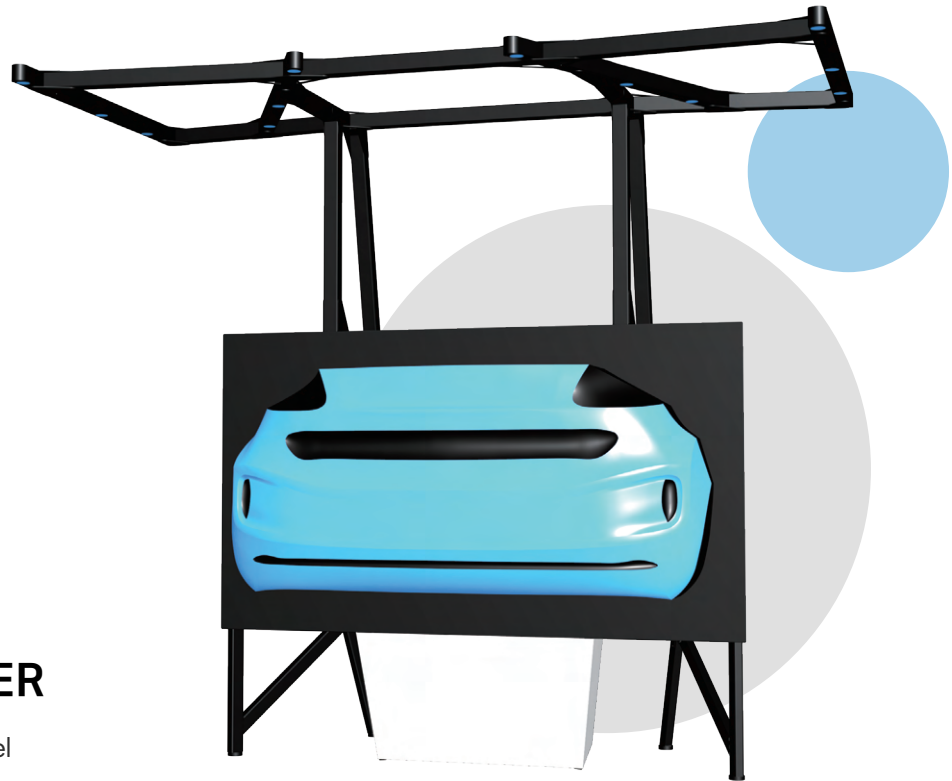
2024
Gumi University



2024
AAPEX

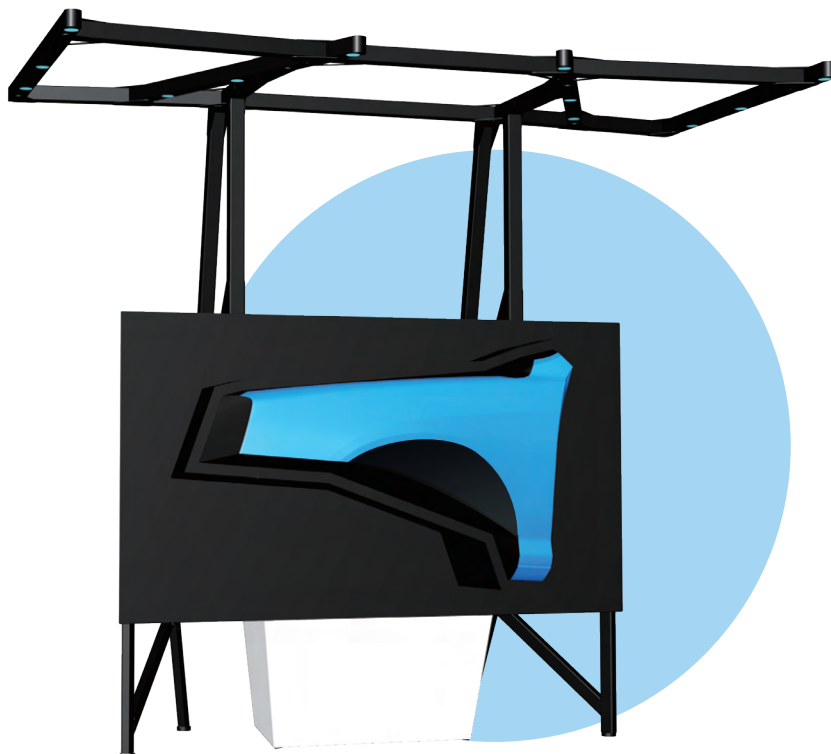


2024
G.U COLLISION CENTER
California, U.S



E-CO PAINTER

Bumper Subject Model

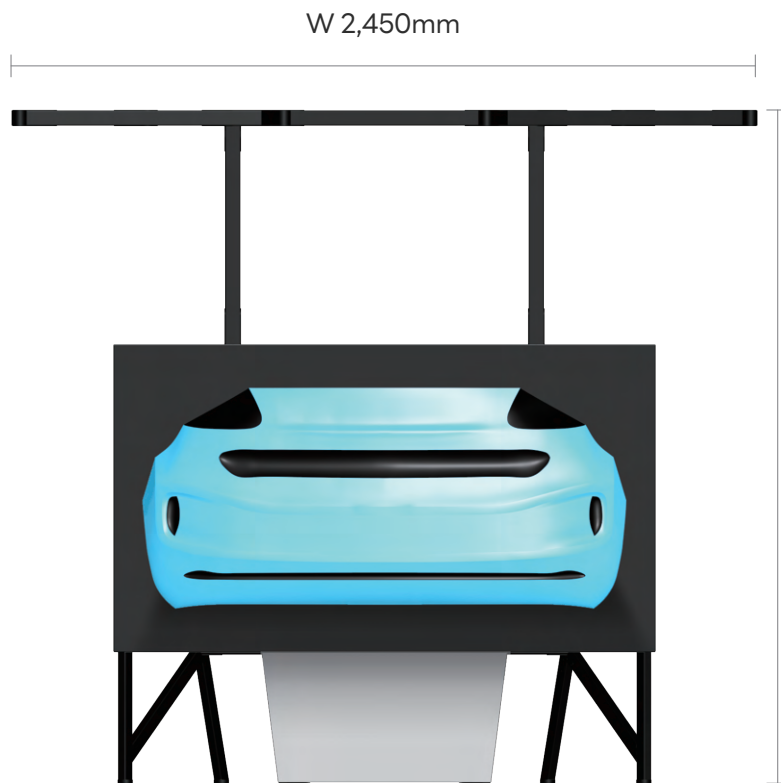


E-CO PAINTER

Fender Subject Model

E-CO PAINTER

SPECIFICATION



(Front View)



(Side View)



Resolution

UHD (3840*2160px)



Gun Type

Real-Time Air Pressure
Measurement with SATA Gun



Lamp Life

20,000 hours

