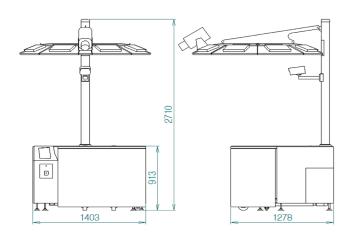
# Specification



## **Collection Box Specifications Table**

Model Name	Smart Collection Box	
Product Dimension	Dimension	1403 × 1278 × 2710(mm)
Capacity	Weight Volume	500(kg) 560(L)
Power Consumption	Day Night	0.25(Kw) 0.46(Kw)
Power Generation	PV	0.08(Kw)

### Features

- Recognize AI and QR Code
- 10.1 inch Touch Panel
- Automatic Opening and Closing of the Input Slot
- Dual Automatic Opening and Closing of the Waste Collection Section
- Indirect Lighting, Security Lighting, and Gobo Lights
   Operating at Night
- Equipped with Anti–Pinch Sensors in the Inlet and Collection Section

Certification







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Eco-friendly Smart Collection Box with Smart-Pole

# Smart(AI) Collection Box

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# **Eco-friendly** Smart **Collection Box**

A system that uses AI to recognize and collect only certified standard waste bags













## Al Technology

- · Pay-as-you-go trash bag recognition system using Al
- · Recognizes pay-as-you-go trash bags and determines whether to collect or not
- Collects only certified trash bags (Prevents illegal dumping)
- · If unrecognized with AI, verifies through QR Code

## Features of Smart–Pole (S–Pole)

- · CCTV for security (Monitors illegal dumping)
- Gobo light (For floor messages)
- · Security lighting (Maintains public safety)
- · Security bell (For public safety)
- · Solar panels (For power supply, energy saving)

### **Environmental Problem Solutions**

- · Contributes to energy saving and carbon neutrality using PV
- Prevents illegal dumping through AI, and S-Pole
- · Reduces odor with automatically sealing collection box
- · Improves urban aesthetics with environmentally friendly design

## Convenience & Efficiency

- · Hygienic collection with automatic opening and closing
- · Provides an internal odor removal system (UV sterilization)
- · Accumulation of input quantity management (For rewards)
- · Provides information about collection box's location
- · Notificate proper operation of the collection box
- Real-time monitoring of load capacity and collection request

# Organization





Recognize QR Code

When error occurs Al reads the pay-as-you-go trash-bag's QR code



Recognize pay-as-

you-go trash-bags

Al recognizes the pay-as-

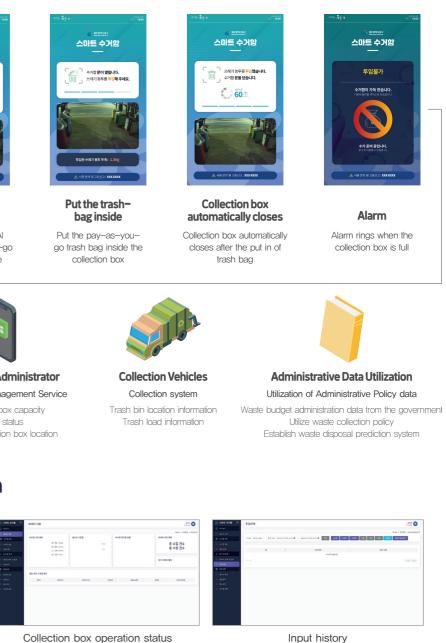
you-go trash-bags

Administrator System Manage Removal of Trash (WEB) Manage Collection Box Statistics Manage Collection Vehicle

Collection box capacity Fault status Nearby collection box location

# Integrated Control System





Real-time management of location-based products



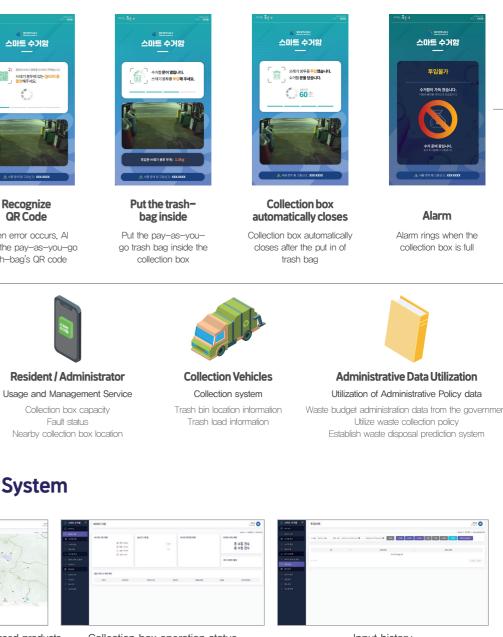


Collection box information

Data analysis and statistics

## **Expected Effects**

- · Rapid collecting through real-time monitoring (Warning message when exceeding certain capacity)
- Encouraging dispersed input by providing collection box location and operational status guidance
- Possible to enforce reward policy through input quantity management
- · Utilize recycling statistics through constructing pay-as-you-go DB system
- Empowering local residents to solve waste issues on their own







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