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Application scope of the project

The intelligent sanitation cloud system provides overall plans

It provides software and hardware programs according to customer demands

Applications



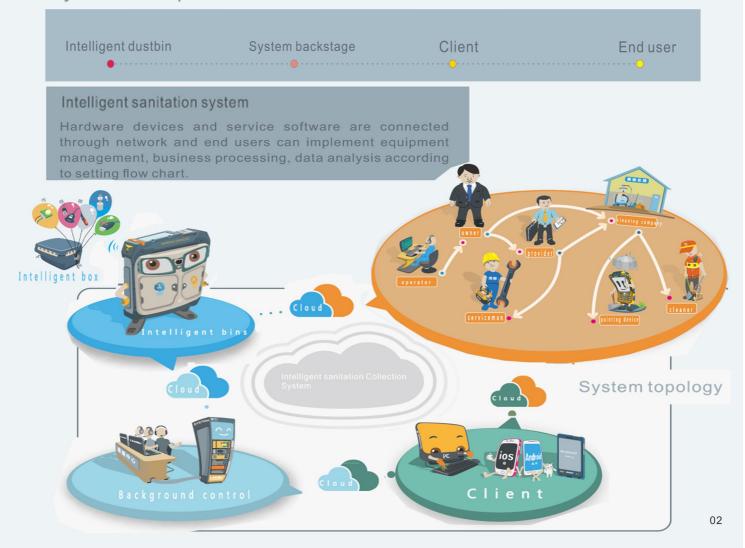
Definition of the intelligent sanitation cloud system



- Main functions of sanitation administrative unit
- Personnel management
 Assessment criterion setting
- companies
- Real-time warning message
 Cleaning data statistics
- Emergency management
 Breakdown maintenance and follow-up
 - Main functions of cleaning and property management company
- Personnel management
- Assessment criterion setting
- Assessment of dustmen
- Real-time check of equipment state
- Real-time warning message
 Cleaning data statistics

- Optimal cleaning method
- Emergency management
- Main functions of maintenance service company
- debugging
- Product installation and
 System implementation training
- Personnel management
 Service evaluation management
- Real-time fault message Real-time check of equipment state
- Breakdown maintenance Emergency management management

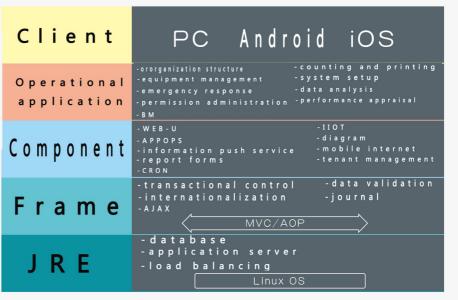
System components

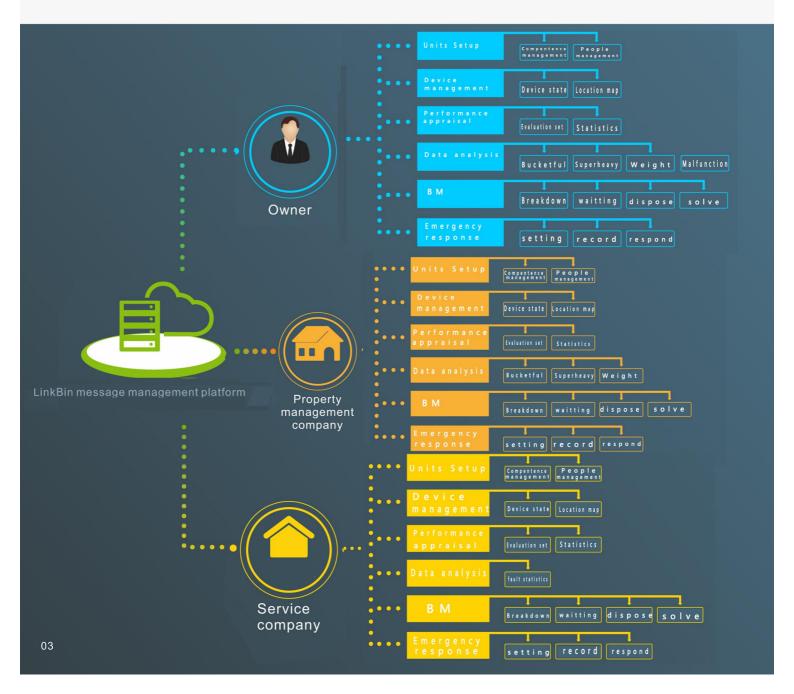




Introduction to system software

The system software is composed of foundation layer, framework layer, component layer, business layer and client. Cooperating with the relational database, a robust, stable, safe and extensible system is established, which is suitable for large-scale data processing and operation. According to demands of intelligent sanitation management, system software which has high expansibility and compatibility can open different interfaces to management software of different platforms and share big data.





Function - Automatic alarm





The intelligent dustbin can send full-load and over-load information to the environmental sanitation administration and cleaning company automatically through the system backstage and inform cleaners in messages. This can prevent damages to city image and the product caused by full load or over load. Cleaners will be informed accurately, reducing labor intensity.



Function - Emergency and remote control

Emergency

The system is equipped with an emergency platform where the environmental sanitation administration can set thresholds, such as full-load times in the setting time, failures, etc. The system can either inform users about threshold exceeding as emergency conditions or release emergency information manually during event presetting.

Remote control

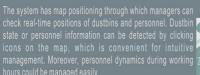
The system has remote real-time monitoring of dustbin state and remote information modification of cleaning and service companies, which is convenient for real-time troubleshooting and modification.



Map • Equipment and personnel positioning



The system will inform the nearest cleaner upon receiving failure message caused by full load or overload, which can increase troubleshooting efficiency and is conducive to personnel management of cleaning company and service company. This is different from traditional personnel assignment in fixed regions and requires lower labor cost.

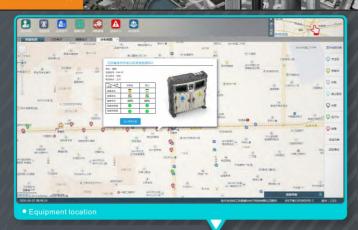






ersonnel
It can display real-time positions of cleaners and acquire information of cleane
ecation
which is convenient for communication and arrangement.

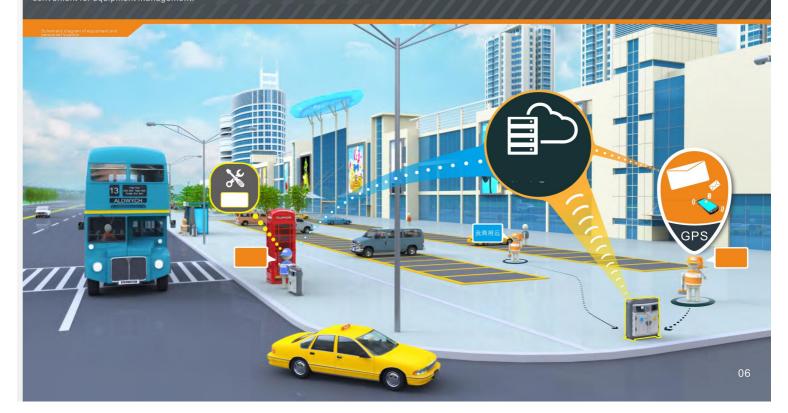
Enter the map



Based on cloud storage and cloud retrieval technique and combining with characteristics and functions of the equipment, it can show accurate positions of large-scaled equipment and describe their real-time operating status. This is convenient for equipment management.

This is good for indoor highefficiency patrol and monitoring of cleaning.

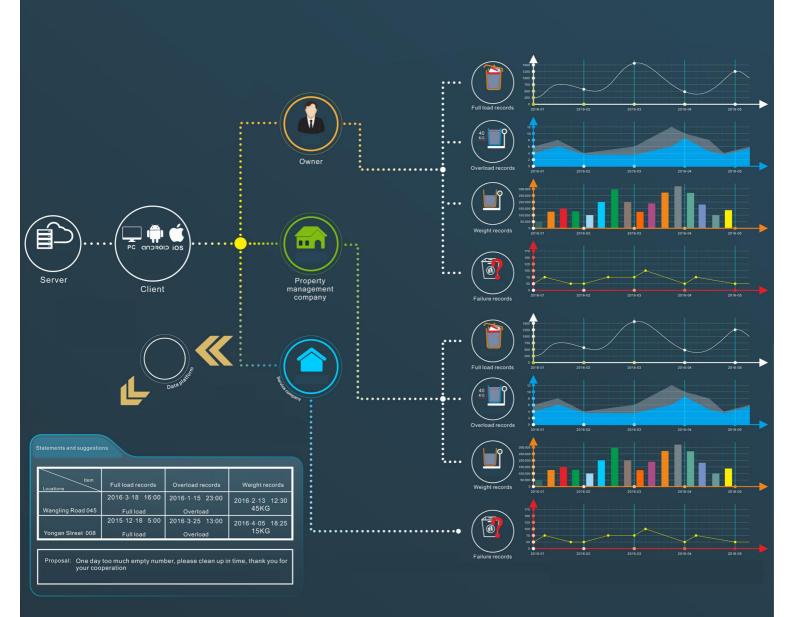






Function - EStatistical analysis of data

The data statistical analysis of the system can make statistics on cleaning and failure data in a certain period, which provides data supports to cleaning company and service company in future equipment adding, personnel assignment and key work planning, and form a certain scaled big data platform. Meanwhile, it can generate statements which are good for management and reports.

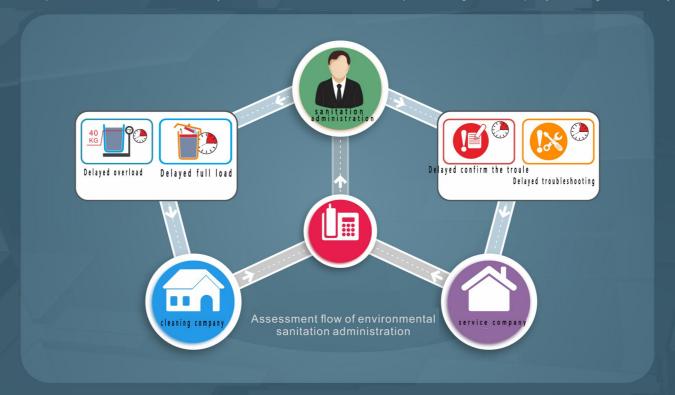


Function - Evaluation



Cleaning and service assessment of the environmental sanitation administration

The environmental sanitation administration can set assessment criteria in the systems, such as delayed cleaning, delayed troubleshooting, etc. Any violation will be scored according to preset point penalty. At the same time, cleaning and service companies can feedback unreasonable penalties through complains. It changes the original manual patrol assessment and realizes fair and justice assessment, which are benefit to improve cleaning and service quality and management efficiency.



Internal assessment of cleaning and service companies

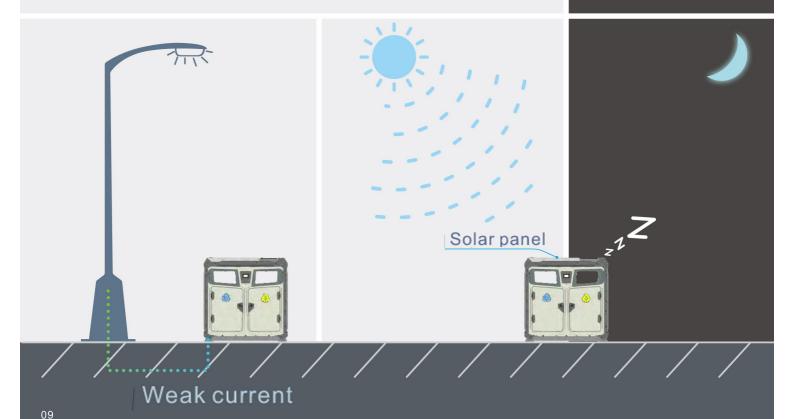
The system has an internal assessment function for cleaning and service companies. Managers can set assessment criteria and the system will accomplish assessment automatically. Employees can solve controversies through the Complain platform. The internal assessment gives cleaning and service companies more justice and fair performance assessments of workers at the production line.

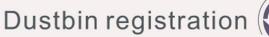




AC power supply and solar power supply are optional to the intelligent dustbin. AC power supply is switched in by urban lighting line and remote low-voltage, which protects safety use and free electric shock risk. The solar power supply is energy-saving and environmental friendly.

Meanwhile, the system can make remote energy-saving settings to make dustbins in sleep mode, which is environmental friendly, low-carbon and energy conversation.









Supported client



Function - Others



The LinkBin possesses more additional functions, including night warning light, online hardware upgrading, voice self-inspection, etc. These make it more humanized and make the city image even better.





















With distinct lines and corners and ingenious design, the product can better reflect youthful charm of modern cities. Night

DH-02SK2 and DH-02ASK2 intelligent dustbin is switched in urban lighting lines and far-end low voltage, which ensures its safety service and prevents electric shock risk.

Three-color warning lights

There are three-color state warning lights at the top of upper cover: early warning of full load, water shortage and breakdown.

Solar power supply system

A solar panel is designed at the top of the dustbin, which can convert collected solar energies into electric energies for internal electrical equipment.



Location of the dustbin

The inner bin is equipped with a GPS modulus which can report the dustbin location by mobile phone APP. Any position deviation will be informed through mobile phone APP or SMS AutoSender.

Self-extinguishment

There's a water tank (≥3.3L) under the upper cover and a water-feeding rubber cover which requires manual feeding under the right shoulder cover. The nozzle at the bottom of the water tank will spray extinguishing solution automatically once the in-tank temperature exceeds 68°C upon material combustion, which could prevent and reduce fire risks.

Garbage weighing module

This can prevent damages to city image and the product caused by full load or over load. Cleaners will be informed accurately, reducing labor intensity.

Early warning of full load

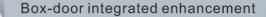
Early warning of full load will be sent to the backstage through mobile phone APP or SMS AutoSender when reaching 80% of full load. This can clean dustbins in time and prevent garbage scattering around

Detection of temperature

Tank temperature is detected through instant messaging (IM) and the backstage will be informed overhigh temperature ($>70^{\circ}$ C) timely through mobile phone APP or SMS AutoSender. Maintainers can check the existence of fire source in advance, which increases security of public utilities significantly.



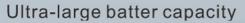




The box and door are made of high-quality hot galvanizing electrolysis cold-roll steel sheets (thickness ≥ 0.8 mm) by integrated stretching once-shaping technique. It not only has a beautiful appearance and no welding spot, but also possesses far higher strength than those

Detection of water leve

For the convenient and prompt maintenance and saving labor resources, water level in the water tank can be detected at any time through mobile phone APP or SMS AutoSender.



The AC intelligence mode uses 2,200mA lithium battery which can protect stable and normal operation of the system. The solar intelligence mode uses 8,800mA lithium battery which can offer about 15d-service after being exposed to adequate sunlight for 1-2d.

If the water level is detected low, the right shoulder cover and water-feeding rubber cover shall be open for manual water supply.

Full-open automatic closing door

The door and box are connected by a piece of 304 stainless steel spring hinge which makes the door open for up to 150° and closing smoothly. The strength and service life of 304 stainless steel spring hinge are at least 3 times higher than those of common tension spring.

Extra-large stainless steel extinguishing flip cover

The extinguishing plate is stamped by once with wiredrawing stainless steels (thickness≥0.7mm) and a piece of cold drawing mold, accompanied with extinguishing holes and cigarette end holes. There's an ashtray (0.8L) beneath the extinguishing plate and an independent triangulation chain that can be opened separately on the extinguishing plate, which is superior to common external extinguishing plate (bowl) in effective prevention of secondary pollution caused by ashes and cigarette ends, convenient to clean, beautiful and durable.



DH-02ASK1





Side cover with warning function





Battery mouth

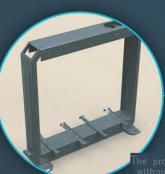
The battery mouth uses profiling design and the surface metal is coated with chrome.

Scratch-proof engineering plastic mouth



and people can recognize different garbage • recycling. Moreover, 3D classification signs are attractive and conducive to enhance people's awareness of garbage classification.

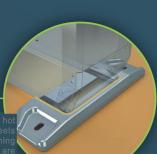
Easy-recognized 3D classification signs • plastics, which can beautify the product and avoid scratches.



Riveting integrated framework

The product uses riveting integrated framework without welding spot. The framework adopts hydraulic once-shaping using cold drawing mold • Ultra-large volume of inner and hot galvanizing electrolysis cold-roll steel • sheets (thickness ≥0.8mm) as the base material. • Its strength and corrosion resistance are at least 2 times higher than those of common shear-plate welded frame. • The inner bin is designed with ultra-large volume and the our reaching the control of t

3D fixed seat





The inner bin is designed with ultra-large volume and the average thickness is ≥ 2.0mm. The volume of two bins reaches as high as 80L.

•



Bag bayonet on the inner bin

Dirt-storage and spill-proof inner bin



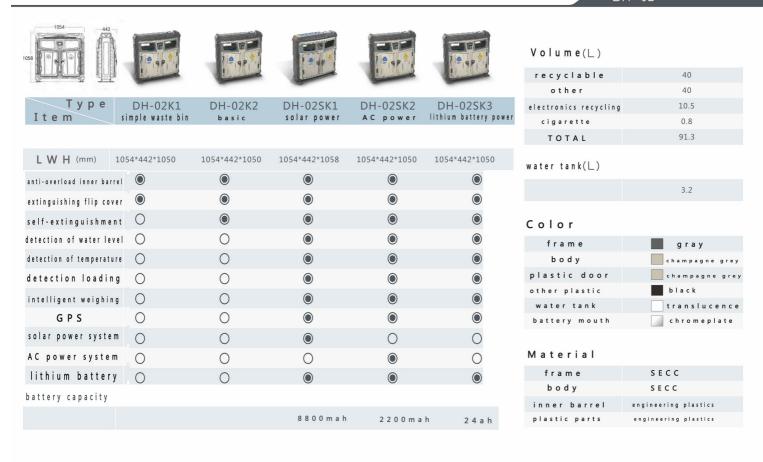
There are spill-proof convex platform and water escape valve at bottom of the inner bin. The convex platform can keep sewages during normal service and excessive water upon heavy rains could be discharged through the water escape valve, preventing garbage spill (drift) from the inner bin.



☐ Scene case

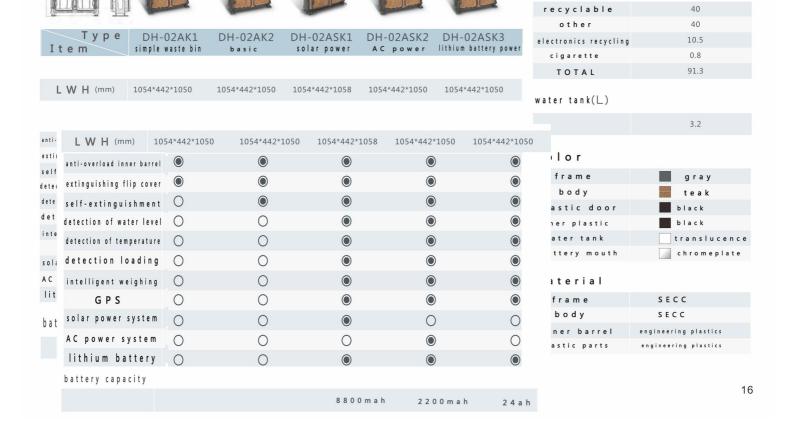


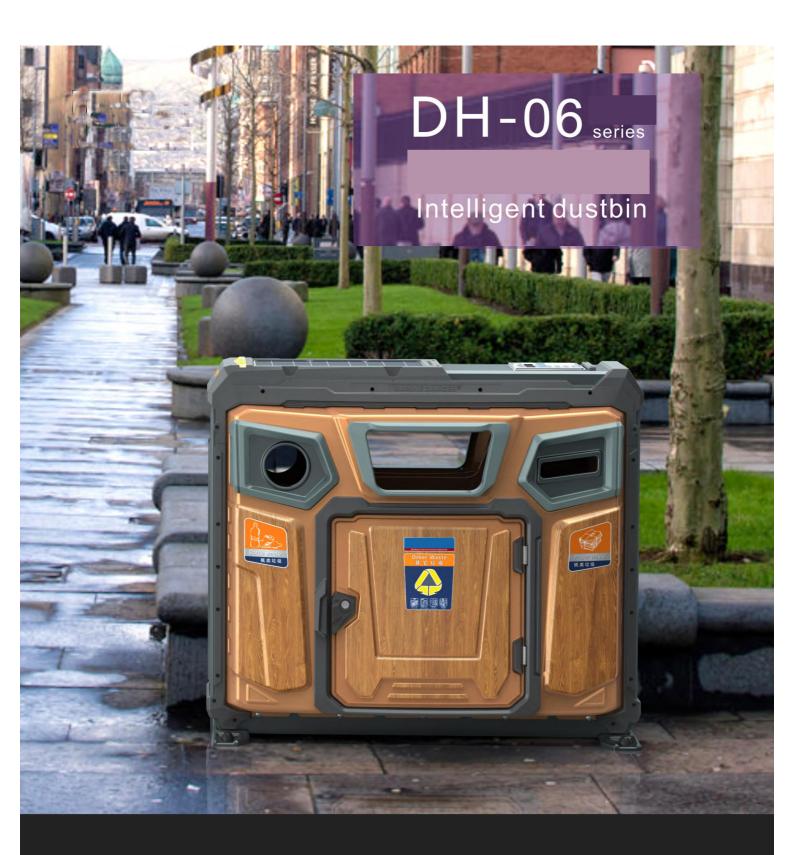
DH-02



DH-02A

Volume(∟)

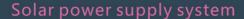




charm of modern cities. Night

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Location of the dustbin

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Self-extinguishment

combustion, which could prevent and reduce fire risks.

Garbage weighing module

labor intensity.

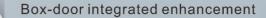
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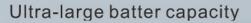




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DH-06ASK1







protecting safety of pedestrians and vehicles at night.





Battery mouth

Scratch-proof engineering plastic mouth

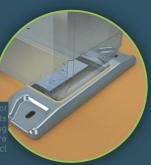


3D classification signs are designed on the door and people can recognize different garbage recycling. Moreover, 3D classification signs are attractive and conducive to enhance people's awareness of garbage classification.

Easy-recognized 3D classification signs plastics, which can beautify the product and avoid scratches.



The fixed seat is made of high-quality hot galvanizing electrolysis cold-roll steel sheets (thickness ≥2mm) by integrated stretching once-shaping technique. Mounting holes are designed dangling, which fasten the product onto the ground.



Riveting integrated framework

he product uses riveting integrated framework without welding spot. The framework adopts hydraulic once-shaping using cold drawing mold and hot galvanizing electrolysis cold-roll steel sheets (thickness ≥0.8mm) as the base material. Its strength and corrosion resistance are at least 21 times higher than those of common shear-plate welded frame.

Ultra-large volume of inner



The inner bin is designed with ultra-larg volume and the average thickness is ≥ 2.0mm. The volume of two bins reaches as high as 80L.



Bag bayonet on the inner bin

Dirt-storage and spill-proof inner bin



escape valve, preventing garbage spill (drift) from the inner bin.





DH-06



DH-06A

