



Post Kiosk Manual

Global Intelligent Self-service Kiosk Provider



Catalogue

Post KioskDesign	3
Product Warranty	3
Warranty Instructions	3
Description of Warranty Period	4
Disclaimer.....	4
Installation Guide	5
Introduction.....	5
Installation Procedure.....	5
Mounting Instructions for Base Mounting.....	6
Dimensions and weight	7
Hardware Layout.....	8
Construction of Base.....	8-10
Unpacking Instructions.....	10-11
Electrical Performance and Working Environment.....	11
Switching on Kiosk after Finished Installation.....	11-12
Dehumidifier Configuration Instructions.....	12-14
Maintenance Guideline	15
Introduction.....	15
Daily Maintenance Schedule.....	15-16
Maintenance of Key Parts	16
Replace the Computer.....	16-17
Replace the 6.5inch LCD Display.....	17-18
Replace the RFID Card Reader.....	18
Replace Barcode Scanner.....	18
Replace Intercom.....	19
Replace Help Button.....	19
Replace Camera.....	20
Safety Precautions	20
Common Problems and Failures	20-21
After-sales Contact Number	21

Post Kiosk External Design



Product Warranty

■Warranty Instructions

This Post Kiosk is guaranteed by LKS that will provide 12 months warranty for main hardware parts since the date of shipment.

For the defective parts confirmed by both parties, customer need to return the defective parts to LKS for repairing or replacement.

If customer needs to return the defective parts to LKS for repairing or replacement, they need to call LKS after-sales technical support team at 4008791755 or send email to jesmine@lien.cn, inform LKS after-sales technical staff the detailed part model to be returned, and obtain the detailed return address; LKS will test repaired or replaced parts carefully and rigorously before returning them to customer, and will ship all parts together to customer side in a cost-effective way.



LKS after-sales service tel: 4008791755

(Office Hours: Monday to Sunday, 8:30am to 9:00pm Beijing time)



Under the Following Circumstances, the Damaged Parts are not Covered by the Warranty.

The parts that need to be repaired or replaced due to man-made rust or corrosion, damage caused by accident, improper handling or operation, improper maintenance, violent transportation, abuse, misuse, unauthorized repair or attempt to repair, vandalization or "act of god" are not included. In addition, the use of unauthorized paper or other unauthorized components and/or supplies will void the warranty.

■Description of Warranty Period

LKS provide 12 months warranty and replacement for both confirmed defective parts.

The freight cost and local customs charges should be afforded by the sender.

If customer need on-site support, they need to afford the extra travel expenses such as air tickets, living, food and labor cost for LKS stuff.

For the defective parts that over 12 months warranty period, the customer shall bear all the costs of the parts, including material cost of parts, two round-trips freight and customs duties for sending the parts.



For the parts provided by LKS are covered by these warranty terms. For the parts provided by customers side such as keypad, credit card reader, bill recycler are not covered by these warranty terms.

■Disclaimer

No patent liability is incurred for the use of this information contained herein. Nor shall it be liable for any damages arising from the use of this information contained herein.

For the kiosk products purchased by customer from LKS, LKS shall not be liable for any loss or consequence caused by customer's misuse or abuse of the products, or unauthorized modification, maintenance, or change of the products, or failure to strictly comply with LKS product manual and maintenance instructions.

The waterproof level of the whole kiosk can reach to IP65.

But the waterproof level of the parts provided by customer side, such as the keypad, credit card reader and bill recycler, shall be considered according to the waterproof level of the parts themselves. LKS shall not guarantee that the waterproof level of these parts can reach the same waterproof standard of the whole kiosk.

The current kiosk cabinet material provided by LKS is not suitable for the outdoor environment with high acidity and salinity in coastal cities. If it is needed for outdoor use in coastal areas, it is recommended to use stainless steel material with higher cost.

Installation Guide

Introduction

This Post Kiosk is a type of intelligent terminal which is used in the intelligent identification management system of the parking lot. The purpose is to realize 24 hours unattended management payment of the parking lot for the property management company, and to provide the owners with a more convenient and efficient way of self-service inquiry and payment. Shenzhen Lean Kiosk Systems CO., LTD is major in developing and researching the self-service payment system in intelligent parking lot actively for many years and has obtained very good practical effect to solve many payment problems existed in traditional parking lot. This article elaborated the specifications and installation instructions of the kiosks, which are helpful for customer to operate the kiosks properly.

Revision of Installation Guide

Serial No.	Date	Revision Description
REEF-US-LKS8345A	March,2020	Post Kiosk Installation Document Version No. 20.0.1

This installation guide describes the ground installation method of the kiosk cabinet, the access method of the power supply cable and network cable, the installation method of the internal dehumidifier drainage pipe.



Attention: This installation guide is for the standard installation order and method. If you have any questions during the installation, please contact LKS technician.

Installation Procedure

Please evaluate and check the following environmental factors before installing the Post Kiosk:



Attention

- ☐ **Security** : As the overall structure material of the Post Kiosk cabinet is cold-roll steel sheet and it is quite heavy, for safety purpose, the kiosks must be installed on the ground with **firm concrete horizontal floor** as the installation platform.
- ☐ **Reasonable Location**: The installation location should be chosen in a reasonable area, where is easy for customer to see and operate the kiosks without causing interference to other pedestrians.
- ☐ **Power Supply Description**: The input voltage of the kiosk in normal operation is "single-phase 110V AC voltage"; The power cord and network cable will go through from the bottom /base of the kiosk then enter into the kiosk cabinet, and the ground installation platform should be pre-set the entrance hole for the cables in advance.



□ **Drainage System:** Since the air conditioner and dehumidifier inside the kiosk will discharge a small amount of water from the bottom during the operation, the ground installation platform for the kiosk must be designed and reserved smooth drainage holes in advance.

Mounting Instructions for the Kiosk Base

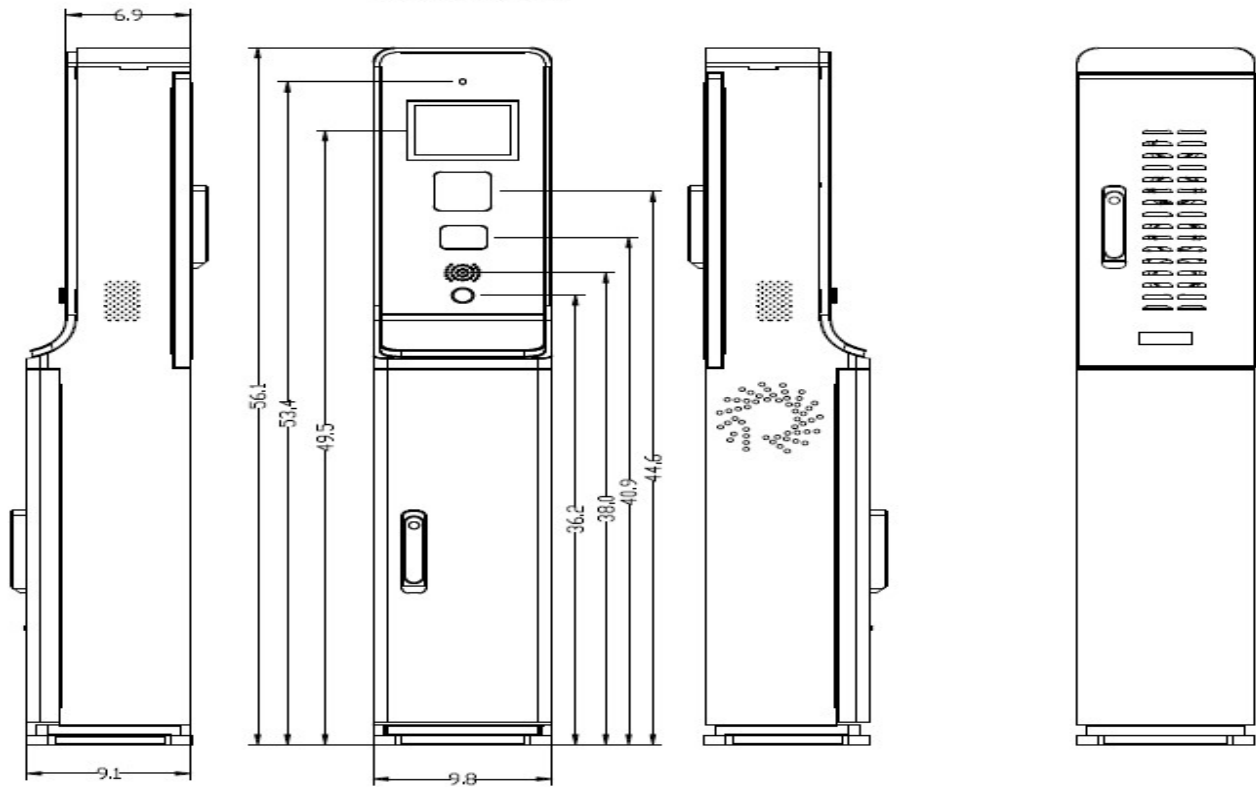
Post Kiosk will be installed on the street for use, and it should be installed on solid and reliable concrete ground. The base with the power cord through must have reliable insulation and waterproof treatment, the drainage hole under the base must be kept free for a long time and not easy to plug; If you have any question during the installation, please contact LKS after-sales technical staff.



Warning: Since the onsite construction and installation of the kiosks involves drilling, grooving, wiring, high-voltage cable wiring, the construction personnel must have professional electrician certificate and operate in strict accordance with the "electrical safety technical operation procedures". Also, they need to do personal safety protection measures before starting to construct and install the kiosks.

Dimensions of PostKiosk

unit: inch



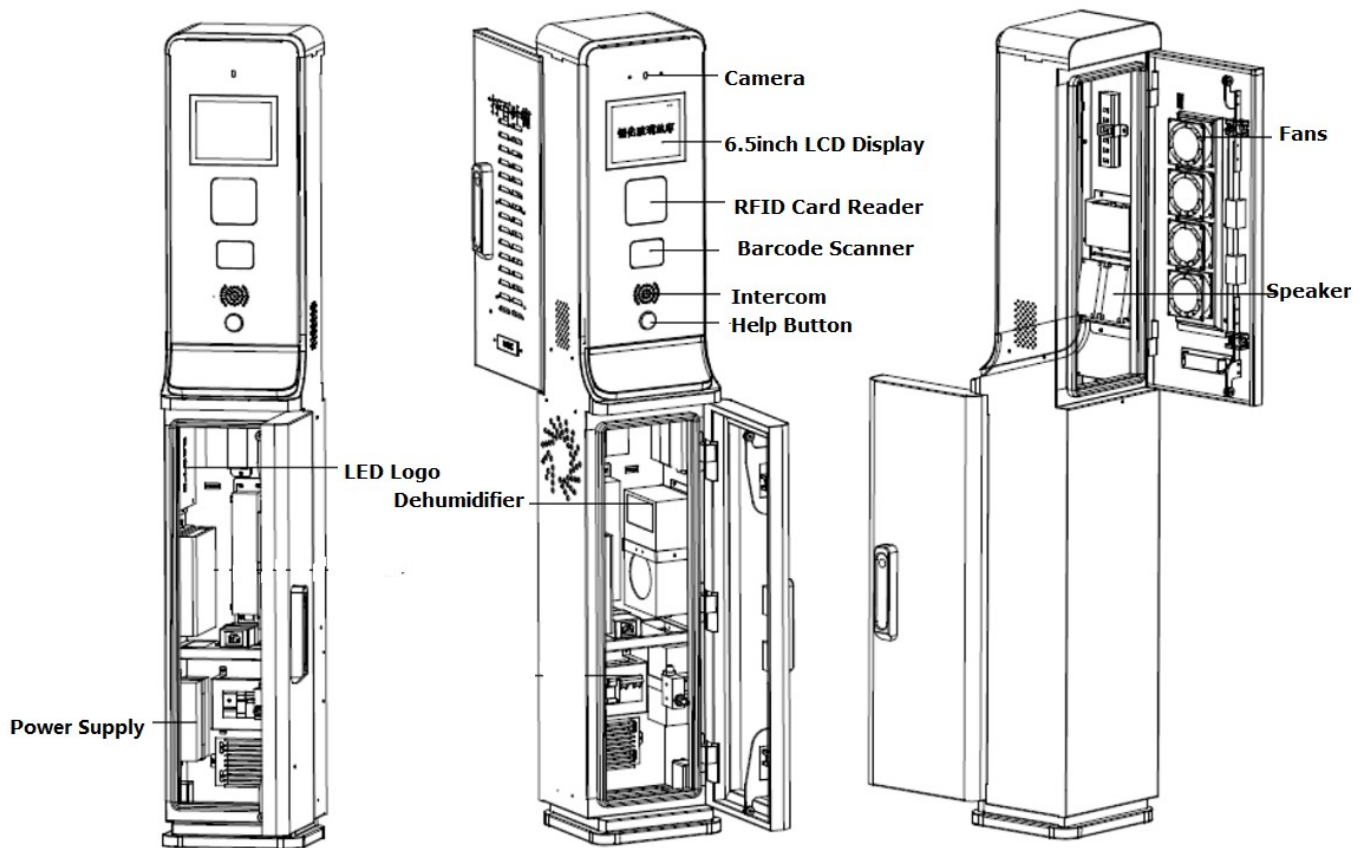
Overall Dimensions

- Height: **56.1 inch**
- Width: **9.8 inch**
- Depth: **9.1 inch**

Device Weight

- Gross Weight: **154 lbs**
- Net Weight: **121lbs**

Post Kiosk Main Hardware Layout



(Post kiosk hardware layout)

Construction of Post Kiosk Base

The surface of the poured concrete base used to install the kiosk must be a standard horizontal plane. If install the kiosk in a slant base, it may cause the kiosk fall down or malfunction. The poured concrete base shall not be too high from the horizontal ground, so that users with disabilities can operate the kiosk normally while sitting in a wheelchair.



Attention: The operating position of the customer in front of the kiosk, the operating distance and width on both sides of the customer must meet the requirements of the normal parking space of the wheelchair, so that the disabled can operate the kiosk more conveniently.

Application Details

1. Confirm whether the construction site meets the horizontal positioning and installation dimensions of the standard base.

2. The power cord and network cable will go through from the bottom /base of the kiosk then enter into the kiosk cabinet, and the ground installation platform should pre-set the entrance hole for the cables in advance.

3. Since there are drain-pipes from air conditioner and dehumidifier inside the kiosk bottom, the ground installation platform for the kiosk must be designed and reserved smooth drainage holes in advance.

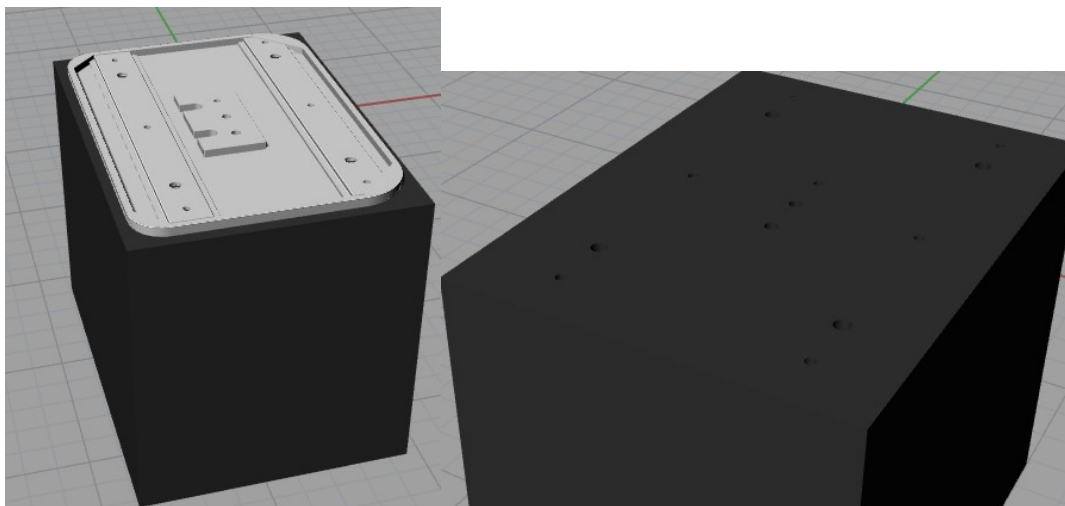
4. Corrosion resistant and flame-retardant PVC pipes shall be used for the wire and drain holes inside the base.

5. Since the weight of the kiosk is measured by is 121 pound, it should ensure that the kiosk is firmly installed on the street and will not tilt or shift under the thrust of 1,200 pounds. The dimension of kiosk base is measured by feet, it should ensure that the installation platform must be poured with cement in enough depth.

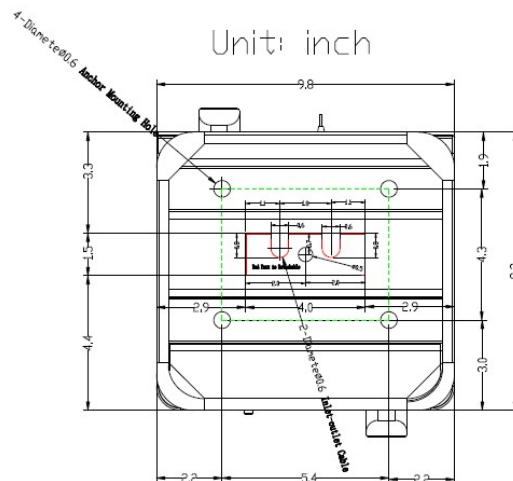
6. Since 4 pieces mounting holes with $\phi 0.6$ inch diameter are reserved at the bottom of kiosk, the construction personnel just need to use 4 pieces $\phi 0.47$ inch * 4 inch stainless steel expansion anchor bolt to fix the kiosk into the installation platform.

Hole Dimensions of Cement Base

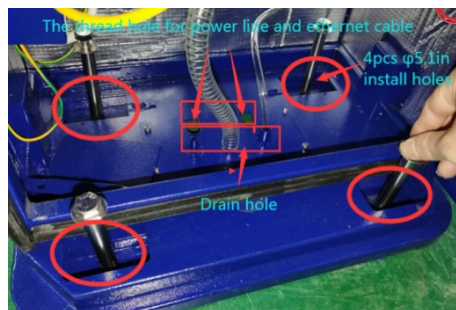
Standard cement base mounting hole size: 5.4 inch * 4.3 inch



Schematic Diagram of Fixed Mounting Hole at the Bottom



Post Kiosk



Unpacking Instructions

Before unpacking the kiosk, please double check whether the outer plywood box is damaged or damp or in flowed during transportation process or not.

After the whole kiosk unpacked, please double check whether the internal devices, the power supply cords, and signal cables are loose or not. After checking and testing the whole kiosk running normally, please install the whole kiosk in the cement base by following the installation instructions mentioned above.

■Essential Tools:

- Slotted Screwdriver
- Art Knife
- Steel Striker
- Goggle

Protective Gloves



Warning: Before unpacking, workers should wear protective equipment such as goggles and protective gloves to ensure the safety.

■Product Accessories List

Product Brochure (Soft copy)	1(piece)
Front and back door keys	2(Piece)
Desiccant	5(Bag)
φ0.47inch*4inch Stainless steel internal expansion plug	5(Piece)



Electrical Performance and Working Environment

☐Electrical Performance

Working Voltage: AC110V~125V 50Hz /60Hz

Rated Power of Whole Kiosk: 150W

Speaker Power: 8Ω5W

15inch Display Power: <10W

☐Working Environment

Working Temperature: -20℃—60℃

Working Humidity: 0%—90%

Storage Temperature: -20℃—60℃

Storage Humidity: 0%—65%

Switching on Kiosk after Finished Installation

☐After finished installation of whole kiosk, turn on main switch of internal power supply to make sure the kiosk switch on normally, the internal hardware components started normally and no abnormal noise inside the kiosk.



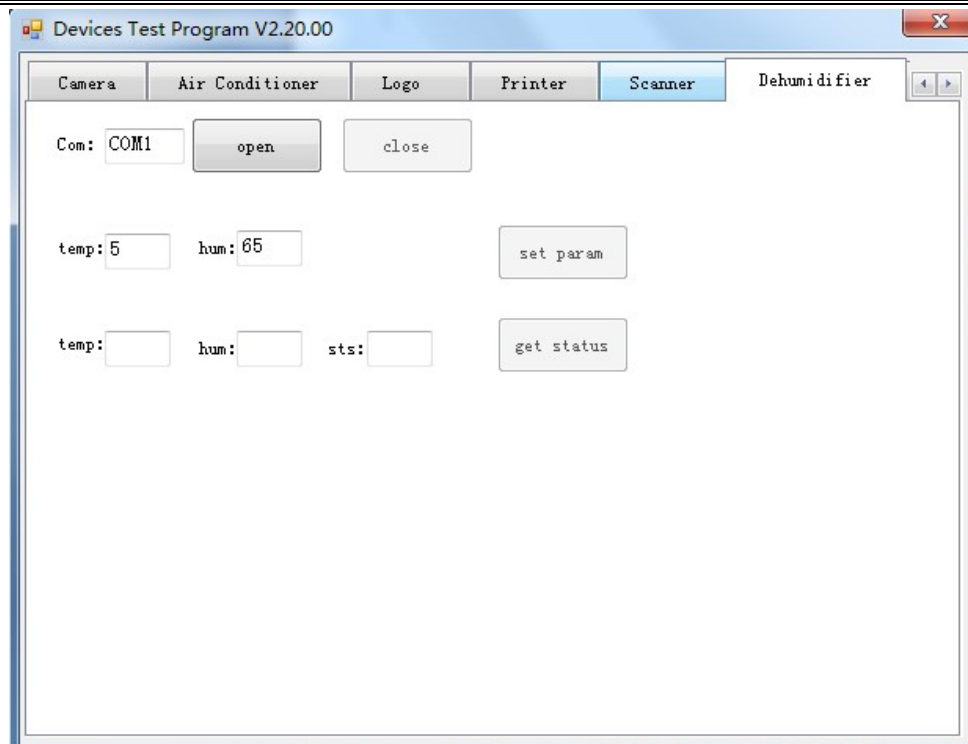
- The default setting of the kiosk computer is "Power on" status before delivery. After the kiosk is switched on, the computer will start up automatically and the display screen will start up normally.
- If the computer cannot start up automatically after switch on the kiosk, please double check whether the power cord of computer is loose or not or press the power-on button as shown in below picture again.



Dehumidifier Configuration Instructions

■Program Setting

1. After switching on the power, the device will start automatically, the display parameters will be normal and no abnormal noise inside.
2. Adjust the humidity parameter, the measurement parameter of hygrometer accords with the actual environment demand.
3. Open the program in D-disk of kiosk computer: This PC→Local Disk(D:)→Testing software5 →Test tool→AParklot→select click Dehumidifier (as following picture shows:) click "open" connection, can be set up on the operation of the Dehumidifier humidity.



■Manual Setting

After the power on and the dehumidifier passes the self-check, it will automatically enter the automatic mode, and the digital tube will show the current temperature and humidity in turn for 2 seconds. When the humidity reaches the start threshold, it will start automatically (manual/automatic light on) and stop working (manual/automatic light off) if it is lower than start threshold minus return difference. When the dehumidifier works continuously for more than 12 hours, it stops for half an hour and runs in turn. When did not reach automatic startup conditions, please press "√" button for more than two seconds to start the dehumidification module manually (manual/automatic lights flashing)? If press "√" button for more than 2 seconds, the dehumidifier stop work (manual/automatic lights) and enter into automatic mode.

When the dehumidifier works continuously for more than 12 hours, the dehumidifier will automatically switch to automatic mode. When the dehumidifier works normally (the digital tube will be in normal state when the current temperature and humidity value is displayed in turn), long press "SET/ESC" key to display "



" for more than 3 seconds and enter the address setting after 1 second. Through short press the "SET/ESC" key may in turn into the address Settings, dehumidification start value, dehumidifier, temperature difference value is SET back, start value, humidity adjusting value, and the condensing temperature state, in the condition of setting by " Sunday afternoon "or" √ " needed to achieve value. Continue to press the



"SET/ESC" key until the digital tube shows " to SET the autosave, then automatically return to the normal state.

The first Display symbols	The Last Two Digits Meaning	Parameter Settings And Display Range	Description
A	Postal address	1~99	Press "∧" or "∨" button can modify the address
H	Dehumidification start value	30%RH~95%RH	Press "∧" or "∨" button to modify dehumidification start value
C	Dehumidification return difference value	2~20	Press "∧" or "∨" button can modify dehumidification return difference values
T	Temperature Start Value	1℃~60℃	Press "∧" or "∨" button to modify the startup temperature value
h	Humidity Adjustment Value	-19℃~19℃	At this time press "∧" or "∨" can modify the humidity adjustment value
t	Condensing chip temperature value	-5℃~20℃	Displays the current condensing chip temperature



Maintenance Guideline

Introduction

This Post Kiosk is a kind of self-payment terminal designed by LKS for the unmanned management of parking lot for car owners. Car owners can pay their bills by swiping credit CARDS, scanning barcodes, banknote and other payment methods. In order to make the kiosk work in the best state, regular maintenance should be done accordingly.

Daily Maintenance Table

Inspection Item	Procedure Description	Maintenance Period
Cable Connection	Visually check whether the cables connection is loose or not	(12 months)
Periodic clean	Clean the surface of touch screen and bench	(2 Months)
Printer maintenance	Clean the internal thermal head and axis roll of the printer head with a small amount of alcohol	(6 months)
Print tray slide rail	Spray a small amount of lubricating oil regularly	(12 months)
Fan error	If the rotation is smooth, there is no difference in sound	(6 months)
Air conditioner drain hole	Visually check whether there is dirt or blockage	(2 Months)
Air Conditioner Condenser	Check the condition of the condenser and clean it with compressed air	(6 months)
Kiosk Bottom	Check whether the bottom of the kiosk is dry and free of water	(2 Months)
Door locks and door metal hinges	Spray a small amount of lubricating oil regularly	(12 months)



Attention: The maintenance personnel must be professional technicians. If there is any problem or question that cannot be solved in the process of regular maintenance, please contact LKS after-sales technical staff for support.



Essential Tool

USB interface
 Mouse
 Cross Screwdriver with $\phi 0.3$ inch Screwdriver head
 Soft hexagon socket sleeve with 0.28 inch specification
 Hexagon socket with 0.22 inch specification
 Electrician diagonal cutting pliers

Nylon cable ties
Electrical insulation tape
Clean cotton
Alcohol
WD40 rust-inhibiting lubricant
Flame retardant silicone
Flashlight
Goggle
Anti-static nylon gloves
Keys for kiosk front and rear door

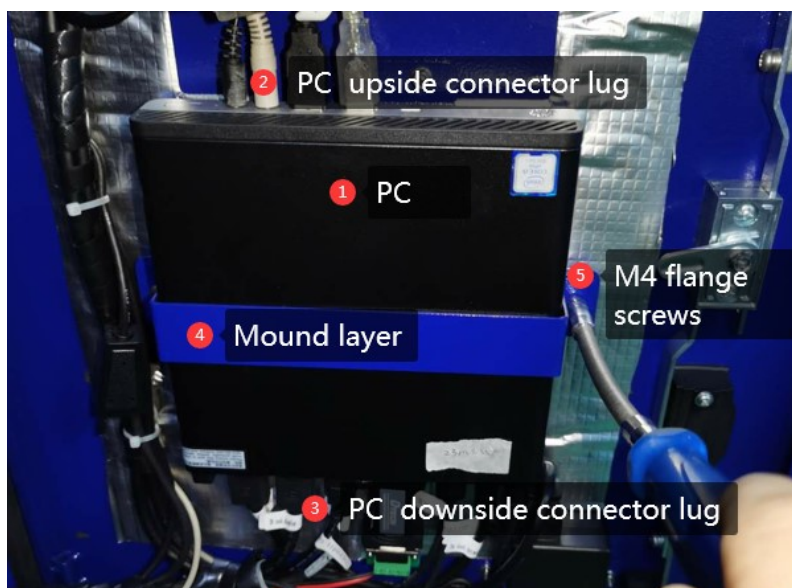


Attention: During the maintenance inspection process for the **Post Kiosk**, the main power switch must be disconnected. The maintenance operation should be strictly according to the "Electrical Safety Technical Operation Rules" to prevent electric shock accidents.

Kiosk Key Components Maintenance

■ Replace the Computer

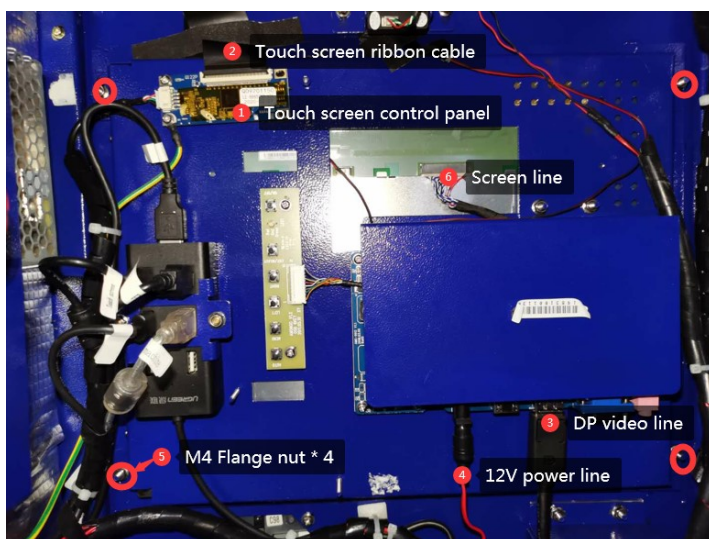
1. Open the kiosk back door and turn off the main power switch.
2. Unplug the PC power supply connector of the power terminal, and then unplug the connector of DP signal cable, serial port cable, USB cable and other signal cables in turn.
3. Loosen the flange nut of M4 with the hexagon socket (specification 0.28inch), remove the sheet metal layering from PC, and then take out the PC (as shown in picture below)





■Replace the 6.5inch LCD Display

1. Open the kiosk back door and turn off the main power switch.
2. Unplug the display power cord, DP signal cable and ground line on the drive board in the back side of display screen and remove the wiring and ground cable on the touch screen drive board.
3. Loosen and remove the stainless-steel flange nut of M4 with the soft hexagon socket (0.28inch specification) and remove the whole display module from the device.
4. Place the removed LCD display flat on the operating platform, remove the screen cable and backlit power cord on the back of display, and remove the M3 combination screw on both sides of the display with a cross screwdriver to remove the LCD display (as shown in the picture below)





Attention: When embedded the 6.5inch display screen into the metal frame, it shall be stably installed and leveled to ensure that the screen and metal frame are on the same horizontal level

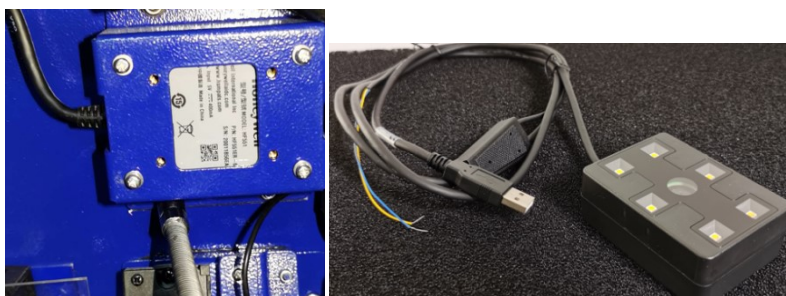
■Replace RFID Card Reader

1. Unplug the USB port from the card reader before removing it.
2. Loosen and remove the M4 stainless steel flange nuts with the hexagon socket (0.28inch), and remove the transparent acrylic mounting plate and card reader together (as shown in picture below)



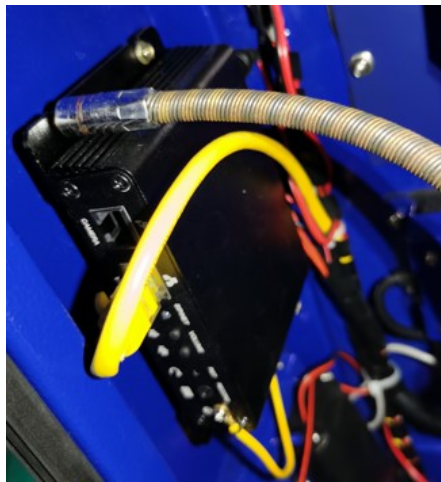
■Replace the Barcode Scanner

1. Close the Windows system in the touch screen interface first, then open the kiosk back door to turn off the main power switch.
2. Unplug the USB cable of barcode scanner from the computer.
3. Loosen and remove the 4 M4 stainless steel flange nuts on the scanner mounting bracket with an inner hexagon soft sleeve (size 0.28inch), remove the scanner and mounting bracket together, then remove the 4 M3 stainless steel combination screws on the back of the scanner with a cross screwdriver to separate the scanner and mounting bracket (as shown in below picture)



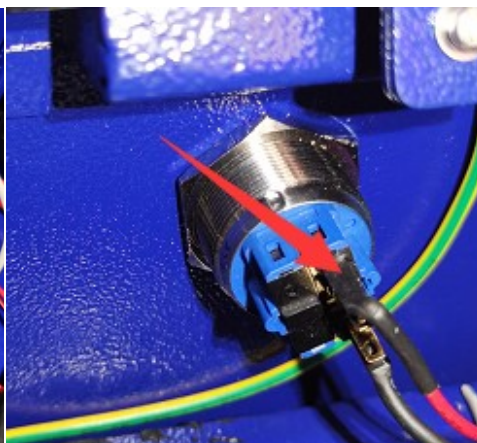
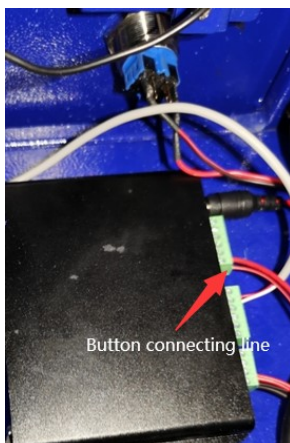
■Replace the Intercom

1. Open the kiosk back door and turn off the main power switch.
2. Unplug the power DC head, microphone connector, call button connector, speaker audio cable, communication network cable, ground cable of the intercom module in turn.
3. Remove the 4-piece M3 stainless steel flange nuts holding the intercom module with the hexagon socket (size 0.22inch) and then take out the intercom module (as shown in below picture)



■Replace the Help Button

1. Use a flat screwdriver to remove the connection between the button and the call controller.
2. Loosen and remove the fixing nut of the metal help button with an open spanner 14-17, then the button body can be removed from the front of the cabinet.
3. When installing the metal help button, it needs to smear a layer of flame-retardant silicone on the edge of the waterproof ring evenly to prevent water seepage at the edge of the button into the kiosk cabinet.



■Replace the Camera

1. Unplug the USB port on the back of the camera.

2. Loosen and remove the 2 pieces M4 stainless steel flange nuts from the camera mounting bracket with the soft hexagon socket (0.28inch) and remove the camera and bracket together. (As shown below left picture)

3. Remove the flat head screw that holds the bracket on both sides of the camera with a cross screwdriver and separate the camera from the bracket. (As shown below right picture)



Safety Precautions

- ☐ The metal kiosk cabinet and hardware components inside are well grounded; The grounding device shall not be removed or modified in any way.
- ☐ Do not touch or be close to any part of the electrical component inside the kiosk cabinet. The work with special permission shall follow the relevant provisions of the electrical safety work regulations.
- ☐ With warning signs, except professional electricians, anyone else is not allowed to disassemble or change the location.

Equipment Common Problems and Failures

■No Screen Display after Power on and Starting on Computer (Black Screen)

- ☐ The interface between the computer and the display screen may be loose, please double check whether the interface between them is in place or not
- ☐ The power cord may be loose, please double check whether it is tight enough or nor.
- ☐ It may be that the power panel of the display screen is closed, please double check and press the power switch button on the power panel. If the power indicator light is on, it means the power supply work normally.



Whole Kiosk does not Work and Warranty Telephone

- ☐ Check whether there is electricity in the power supply outlet of kiosk locations.
- ☐ Check whether the main power switch of kiosk is On or not



Attention: When performing internal inspection or disassembling kiosk parts, it must be ensured that the power supply is OFF

◆ If there are some problems of kiosks cannot be solved, please contact with the maintenance team or the factory directly.

TEL: 4008791755

E-mail: jesmine@lien.cn

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.