LS600 Series POS

User Guide

Shenzhen Ejeton Technology Co., Ltd.

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1 Overview

LS600 Series is a specially developed point of Sale terminal for retail, with a beautiful appearance, compact, optional single screen / dual screen, screen sizes 15.6 inch, 13.3 inch, 11.6 inch, with touch, supports 80mm thermal printing, easy to operate, convenient and fast. This model uses dual-screen vision, dual touch, comfortable and convenient to use. High sensitivity touch screen, faster and more accurate and more convenient, simple and generous appearance, small size to save space. It’s the merchant's first choice for self-service equipment.

1.1 Product features

* Support for Android/Windows systems

* The 15.6-inch, 13.3-inch, 11.6-inch casually matched capacitive touch operation.

* The printer supports 80mm rolls, printing quickly and quickly, and Auto cutter

* Face recognition for payment, fast payment

* Desktop cash register, easy installation

* Stable and reliable upgrade function: Provides device online upgrade and and remote upgrade capabilities.

1.2 Main uses and scope of use

1. Retail, Self service, Hospitality, Specialty

1.3 User and environmental conditions

1) Ambient temperature: -10°C to 50°C;

2) Relative humidity: 0% to 95%, no condensation;

3) Environment: no vibration, no dust and corrosive liquids, flammable gases, oil mist, water vapor, drip or salt, etc.

4) Atmospheric pressure: 70 to 106Kpa;

5) Storage temperature: -40°C to 70°C;

6) Cooling mode: Passive cooling

1.4 Working conditions

1) Operating temperature: -10°C to 50°C
2) Relative humidity: 0% to 95% (non-condensation)
3) Altitude: 2000M
4) Power input AC 220V
5) Indoors
6) System reliable grounding: Ground impedance must be 0.1Ω.

1.5 Impact on the environment and energy

System power consumption: ≤50W

1.6 Safety precautions

1.Do not expose the appliance to water-free environments to prevent it from affecting the normal use of the appliance.

2. Do not power on frequently, which may slow down the reaction speed of the machine equipment and affect the stability of its entire system operation. At least 30 minutes of standby after a single power-up is required before turning it off, and it cannot be turned on immediately after the same shutdown.

3. Try to avoid the downside of air conditioning and other wind direction. Due to its high humidity will cause the internal system of electronic equipment disorder, seriously reduce its service life, and the machine during operation do not make a large temperature difference.

4. Do not arbitrarily plug in non-secure mobile storage devices, such as USB hard disk or USB disk, etc. , to copy data need to be disk-free, to ensure security and then plug into the USB interface.
Prevent viruses in removable storage devices from damaging intelligent systems and affecting their normal use.

5. LCD screen for capacitive touch, so the humanization is strong. Be careful not to scratch the screen with sharp objects, as sharp objects can scratch the entire LCD screen, seriously affecting its positioning accuracy, and will cause immediate damage to the use of sharp items when written.
In addition, when in direct contact with it to ensure that the fingertip spline clean, avoid contact with chemically corrosive substances and then contact with them, to prevent chemical attack.

6. Do not block the vents and sound pronunciation holes in the housing. Do not install the device near the radiator, heat source, or any other equipment that may affect normal ventilation.
7. Do not self-remove or repair the equipment, should ask professional service personnel to complete all repair work.

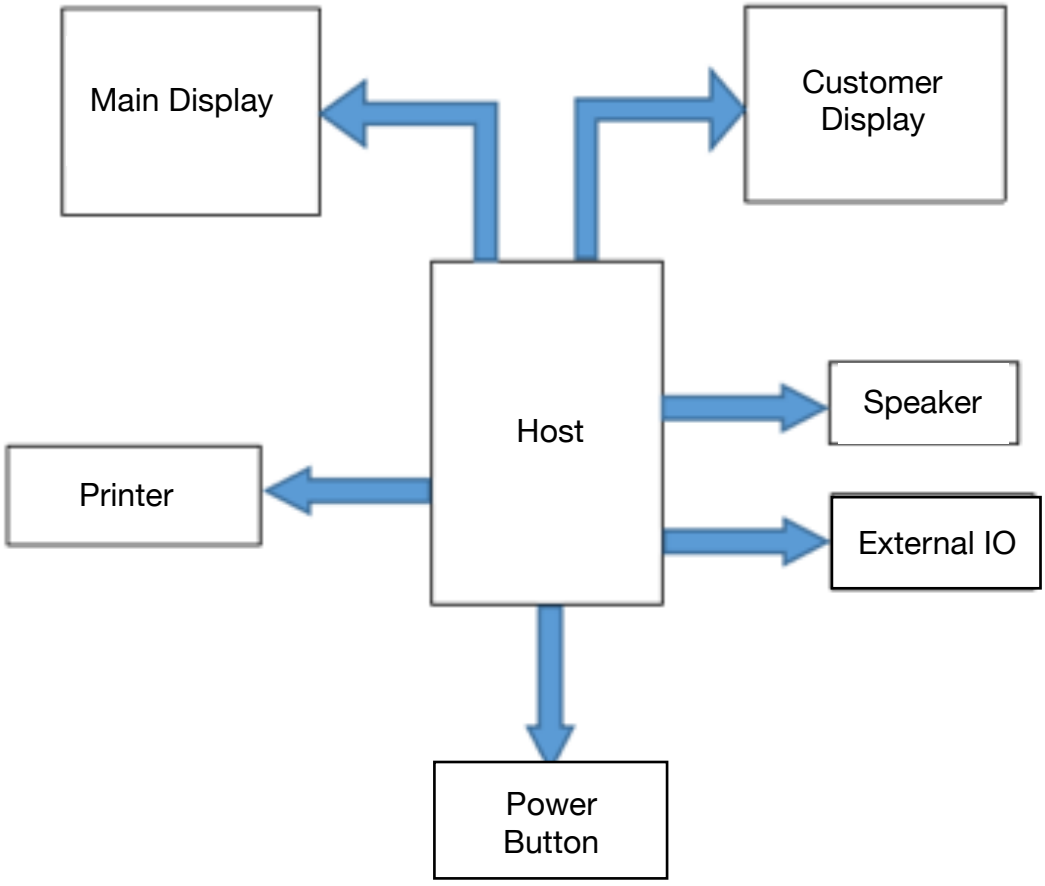
2 Structural features and working principles

1) Basic structure: metal and plastic structure;
2) Installation: Desktop
3) Weight: <10kg
4) Surface coating: UV
5) Ground: The device has a special ground ingress column.

2.1 The overall structure and its working principles, working characteristics

The main composition of the device by the motherboard, 80mm thermal printer, touch display, 3D camera and other parts.

2.2 The structure, function and how the main component or function unit works



3 Technical features

3.1 Key features

LS600 register main function is the as POS terminal / receipt printing, more efficient and convenient to complete cash register operation

3.2 Key parameters and Specifications

Component	Eitem	Configuration parameters
Motherboard	CPU	Intel BayTrail-J1900, 2.0GHz, J1900 Quad Core CPU - 4 Cores, 4 Threads
	Memory	2GB Optional: 4GB and 8GB
	Storage	64GB M-NISATA SSD, SATA Interface for optional 2.5” Hard Drive
	Connectivity	LAN 10/100/1000Mbps, Support 2.4G WiFi and Wi-Fi 802.11b/g/n protocol. Bluetooth support, V2.1 plus EDR/Bluetooth 3.0/3.0
Main Display	Display	15.6” LED 1920x1080
	Touch	Capacitive ten-point touch
Printer	Type	Thermal
	Print speed	200mm/second
	Print width	80mm
	Print Head Life	150Km
	Cutter Life	500,000 Cuts
Audio	Speakers	2X3W
External Interfaces		DCx1 COMx1 RJ11x1 USBx4 RJ45x1
Power	Adapter	12V/ 7.5A External Power Supply
Operating System		Win7, Win8.1, Win10, Linux

4. Weight
Complete Machine = 5KG

5 Installation, commissioning

5.1 Equipment foundation, installation conditions and their installation technical requirements
1, 12V / 7.5A adapter one, net port one.
2, space requirements 400L x 400W x 400H, unit mm

5.2 Setup, Methods and Notes
1, Place the machine on the flat vibration free surface
2, Connect the adapter into the socket, and then plug the DC head into the motherboard
3, Connect the network cable into the main board RJ45 net port
4, Pay attention to the power supply is 12V input, do not use other devices above 12V power supply

6 Operation

6.1 Pre-use preparation and inspection

Please confirm that the power supply, network is OK, to switch on the machine, press the power button to power on the unit

6.2 Safety and safety protection, safety standards and instructions before and in use

1. Do not pound the panel.
2, small receipt printing process do not pull, tear small ticket.
3, replace the printer paper roll, please use the pull latch, pull the latch, wait for the printer paper door to eject before replacing the paper roll.
Never pull the front door of the paper compartment directly.

6.3 Operating procedures, methods and precautions for downtime
Please exit the current APP, return to the main Windows interface, click the shutdown button in the menu below, turn off the system, press the power key, turn off the device.

Note: Please do not shut down the power key directly, or unplug the power cord, which may cause damage to the device.

7 Fault analysis and troubleshooting.
In case of abnormal situation, try to restart the equipment, if the equipment still exists abnormal, please call the after-sales service hotline first.

400-055-6811

Please troubleshoot under the guidance of the after-sales personnel

7.1 Printer
Installation of paper rolls

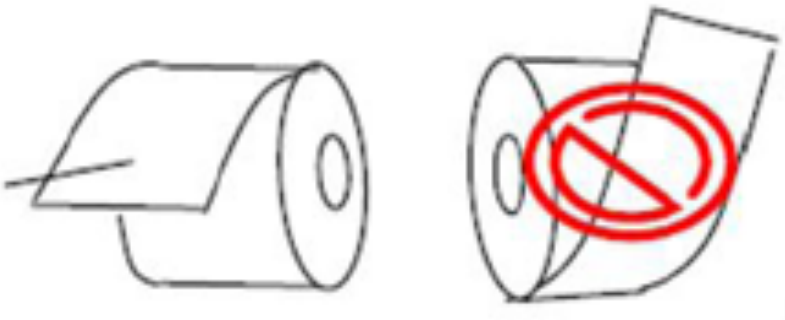
1) Pull the paper door latch and open the printer paper door

2) It should be noted that the paper head of the printed roll is cut with scissors when loading the paper, as shown in the following image:

3) Put the paper roll in the direction shown, and place the roll horizontally or vertically to the printer module into the inlet (e.g.

The black label function is effective, the black label paper requires the black label on the back of the thermal layer:

Thermal Coating



4) Put the paper roll in the printer paper housing
5) Pull the paper head out and cover the paper compartment door to print

Fault handling

(1). When the paper compartment cover cannot be opened, press the card knife to resume operation or check the installation of the main and fixed parts
Whether it fits in place.
(2) When the paper-out light flashes, turn off the power and check if the paper compartment is on paper and if the paper head is placed
The rollers are in place.
(3) If a paper jam appears when printing, first disconnect the power supply, then lift the button up, with the key The quasi-black cylinder presses down firmly and ejects the paper cover.
As shown in the figure below, the thermal paper is drawn out for a distance, Close and cut off the newly stuck paper and it can be restored.
(4) When the cutter does not reset, use the screwdriver to turn the cross hole to drive the white serrated

Safety precautions

(1) No current or voltage exceeding the maximum absolute rating shall be applied to any pin if

More than the maximum absolute rating of current or voltage, current flow ingesting the device may cause thermal damage.

(2) No output pins can be shorted with the power supply.

(3) The conductive material falls onto the circuit board, causing the pin on the circuit board to short-circuit, the current over the general assembly

Causes thermal damage.

(4) Make sure that the device is connected using the specified cable.

(5) Incorrect connection may cause a fire.

(6) Do not remove or modify the product.

(7) Making incorrect changes to the product may result in injury, fire or electric shock.

Precautions for use

(1) Use the required printing paper provided or confirmed by the supplier, otherwise it may affect the quality of the print

the amount of print head life, and even damage the print head.

(2) The width of the printed paper roll, the minimum diameter of the inner diameter and the maximum diameter of the outer diameter should meet the error requirements, and the paper should be

Head bypass from stainless steel, otherwise it may appear that the paper will do not reliably turn on or walk the paper is not smooth, not straight, etc.

The phenomenon affects the normal operation of the printer.

(3) The signal interface cable shall not be plugged in the live state of the printer.

(4) If you open the head after printing, do not touch the print head or motor housing by hand immediately.

To avoid being burned by the high temperature of the metal housing.

(5) The friction between the roller and the thermal paper is very large, when there is no paper in the print head, should avoid walking paper at this time,

It is not possible to print, otherwise it is easy to damage the thermal film.

6 The print head piece needs to be cleaned regularly (with waterless alcohol) to ensure the quality of the print and the quality of the print

Life.

(7) If the printer works outdoors to pay attention to regular dust cleaning of the printer, to avoid transmission

The sensor is unable to report the status of the printer accurately and effectively due to dust cover.

(8) It is strictly forbidden to block the output of paper by hand:

FCC WARNING STATEMENT

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

The distance between user and products should be no less than 20cm.