MINT

Kiosk System

Operating Manual

Edition Mar 2008

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Manufacturer’s Certification

SPACE RESERVED FOR PRODUCT
CERTIFICATION/SAFETY TEST IN COMPLIANCE WITH
PRODUCT SAFETY REGULATIONS

Note on the Laser

The kiosk is equipped with an IRDA device, the following condition applies: The IRDA Transceiver contains an Infrared light-emitting diode (IRLED) classified according to a Class 1 laser, compliant to the IEC 60825-1 or EN60825-1 standard for Class 1 Laser; It must not be opened.

Important Notes

- The system conforms to the current safety standards for data processing equipment.
- If this device is taken from a cold environment into the operating room, moisture condensation may form. The device must be absolutely dry before being put into service; an acclimatization period of at least two hours must therefore be observed.
- This device is equipped with a safety-tested power cable and may be connected only to a prescribed grounded-contact power socket.
- When setting up the device, ensure that the power socket on the device and the grounded-contact power socket are easily accessible.
- To disconnect the device from the supply voltage completely, switch off the device and disconnect the power plug.
- Ensure that no foreign objects (e.g. office clips) find their way into the device, as this may lead to electric shocks or short-circuits.
- In order to ensure that the device is well ventilated and to prevent over heating, do not obstruct the ventilation slots on your device.
- Never plug in or unplug data communication lines during thunderstorms.
- Protect devices from vibrations, dust, moisture and heat.
- Always dispose of used parts in an environmentally safe manner.
- In emergencies (e.g. damaged housing or damaged power cable, penetration by liquids or foreign bodies), the device must be switched off immediately, the power plug disconnected and the Customer Service of Wincor Nixdorf (WN) or your dealer must be notified.
- The system is the result of modern technical innovation. So please see for according structural and technical surroundings to guarantee a faultless and efficient work of your system.

WARNINGS: The device may only be repaired by authorized qualified personnel. Unauthorized opening of the device and inexpertly carried-out repairs may not only seriously jeopardize the safety of the user, but also cancel all warranty and liability agreements.

Introduction

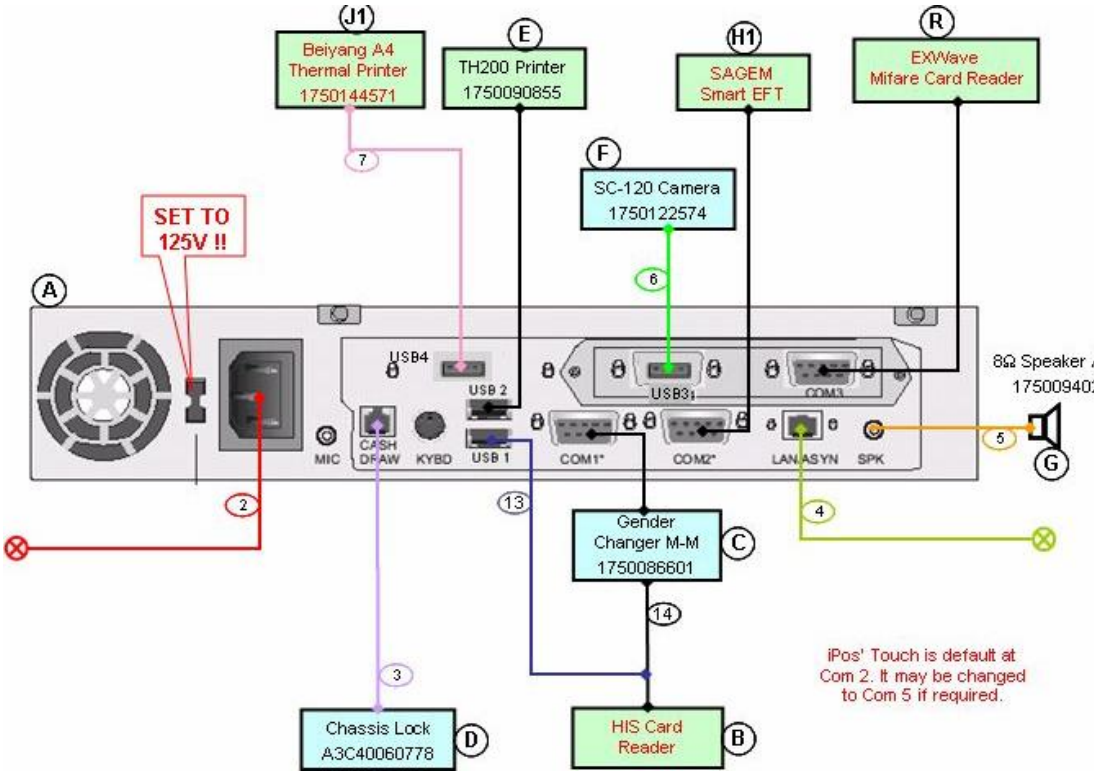
The basic features of the kiosk are as follows.

Main Features

- iPOS Panel PC with 15” Capacitive Display
- 80mm Thermal Receipt Printer
- A4 Statement Printer
- Digital Color Camera, 100K pixels
- Stereo Speakers
- Advertising Light Box
- MiFare Contactless Card Reader
- HIS Card Reader
- Electronic Payment Terminal

Illuminated signage
Digital camera
15" Panel PC
Stereo speakers
HIS reader
Receipt printer
Payment terminal
with privacy shield
Mifare card reader
A4 statement printer

System Block Diagram



Operating Instructions

- Ensure that power connector used is as specified in the Power Cord Selection.
- Ensure that the AC power point is switch off.
- Insert the specified power connector firmly into the AC power point. Note that the system is designed for usage based on AC power rating of 115V/60Hz.
- Insert the LAN cable RJ45 into the suitable phone terminal.
- Switch on the AC power point.
- The system is configured to start up upon powered on.
- In the event the system does not start up, switch off the AC power plug.
- Check all connectors to ensure there are no loose connections before switching the system on again. This may be due to the poor handling of the system resulting in the loose connection.
- Do not attempt to open the system unless by authorized qualified personnel.
- If the problem persists, switch off the AC power point. Disconnect the AC power plug and LAN cable. Contact Wincor-Nixdorf for aid.

WARNINGS: The device may only be repaired by authorized qualified personnel. Unauthorized opening of the device and inexpertly carried-out repairs may not only seriously jeopardize the safety of the user, but also cancel all warranty and liability agreements.

Basic Operation

The device is easy to operate.

To start operating the device, follow the steps listed below.

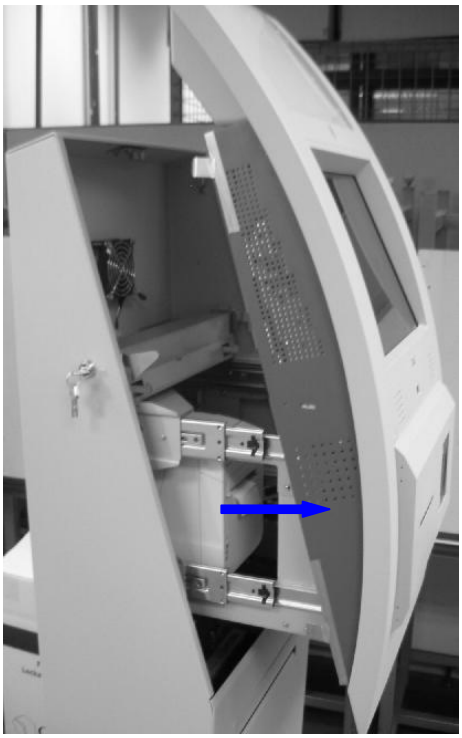
- Open the device front bezel.
- Switch on the device.
- Load the paper roll into the printer if the paper roll is not present.
- Once the application is loaded, the device is ready for operation.

Opening the Device

The device is secured by a single lock.

To open the device front bezel, you need to first unlock the device. To unlock the device, turn in the direction indicated in the illustration figure below.

Fully pull out the front bezel in the direction indicated after unlocking the device.



Switching on the Device

Switch on the AC power point with the power cord is inserted into the point. The system is configured to start up upon powered on.

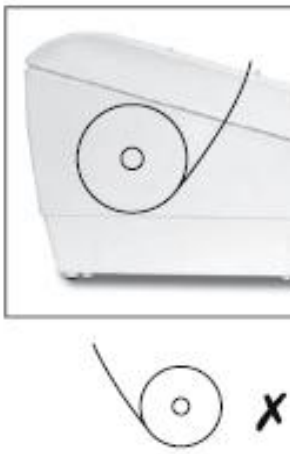
Loading the Paper Roll into the Thermal Receipt Printer

- Open the door to access to the thermal receipt printer.
- Open the printer top cover by pulling the cover release lever (see arrow in the picture below).

- Remove the spool of the used paper roll from the paper holder and load the new paper roll (as shown in the picture below).

- Make sure that a few inches of the paper is extended over the cover edge.

- Make sure the paper roll is loaded in the direction as shown in the picture below.

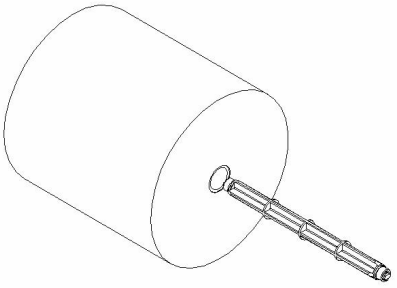


- Close the printer cover. Tear the excess paper across the tear bar (see picture below). If necessary, advance the paper by pressing the FEED button.

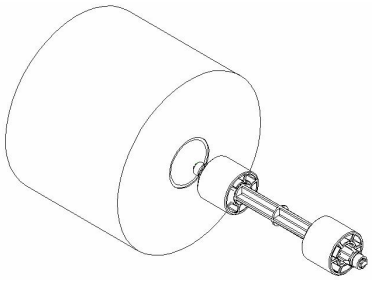
- Close the door.

Loading the Paper Roll into the A4 Statement Printer

- Open the door to access to the A4 statement printer.
- Insert the paper roll holding shaft into the core of the paper roll (see picture below).

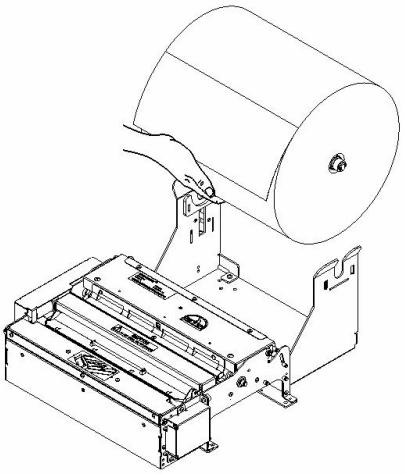


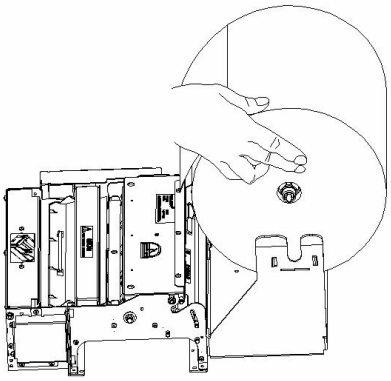
Paper roll ID: 25mm



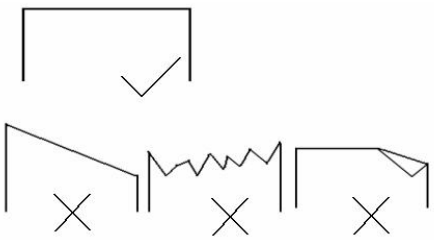
Paper roll OD: 50mm

- Make sure that the paper winding direction is backward and then put the paper roll onto the paper holder.

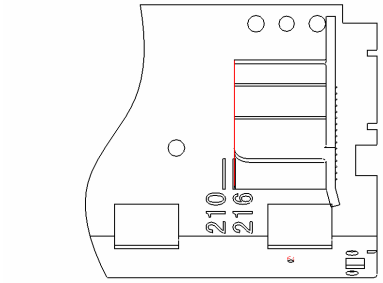




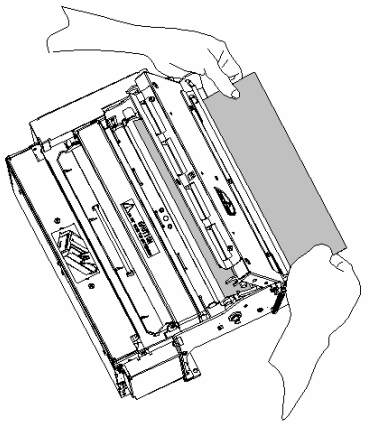
- Cut the paper neatly by consulting the figure below.



- Sliding the paper guider to appropriate position (scale: 210mm or 216mm) according to paper width (see picture).



- Turn on the power and the buzzer will alarm paper end.
- Press down the button on the print upper cover, and lift the print head.
- Manually load paper, and make sure that the printing platen roller is fully covered by paper (see picture below).



- Close the print head. The printer will automatically feed paper to right position.

Device Modules

iPOS

iPOS is a high performance panel PC. Its innovative concept integrates the touch display, the central processing unit and the power supply unit in one housing. It conforms to PC industry standard and supports a wide variety of operating system software. Powerful CPU ensures quick processing of all operations.

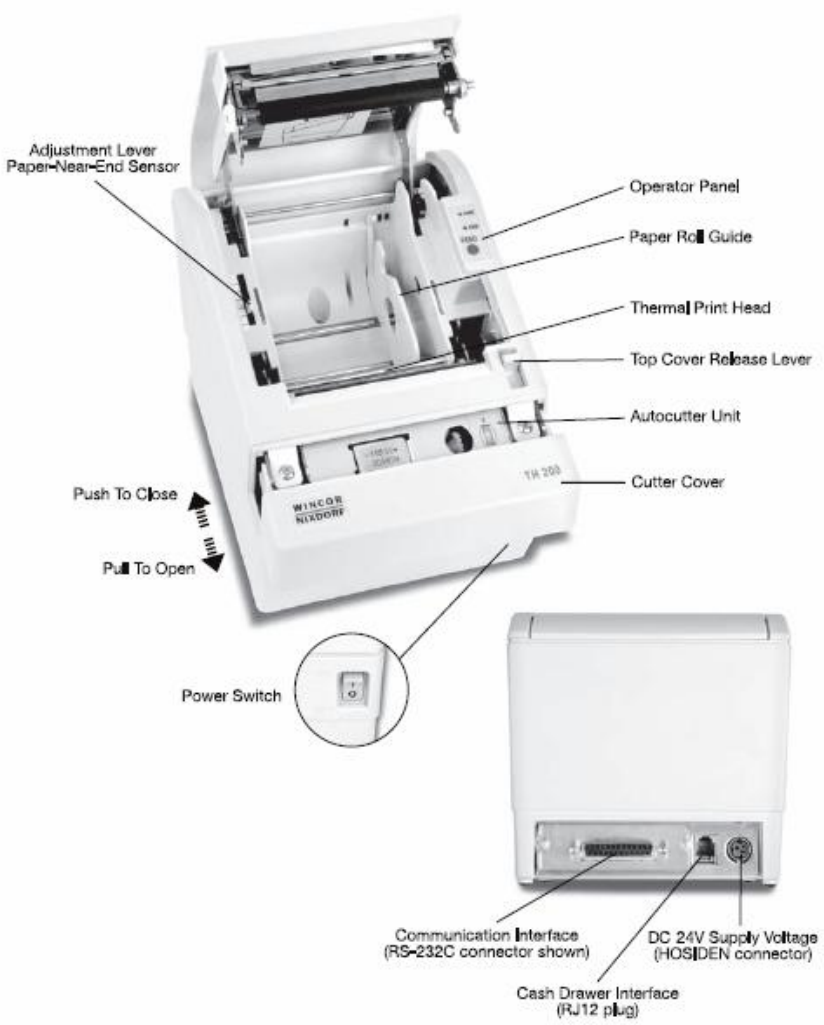
iPOS is factory configured to boot up automatically when the device is switched on.

The iPOS Touch Screen works according to the principle of a change in analog capacitance. It has a glass screen with a transparent, thin-film overlay on the surface. This is fully sealed and protected by a further layer of clear glass. Electrodes on the edges of the screen provide a uniform low-voltage field. As soon as you touch the screen with your finger the contact point is “recognized” by the change in capacitance. The touch screen responds to the slightest contact, therefore you do not have to apply much pressure when working with the screen. Touching the touch glass has the same effect as clicking the left mouse button. You only need to apply a little pressure with the fingertip. In this capacitive process only fingertip contact is recognized. The screen does not react in any way if touched, for example, with a pencil or a glove.

80mm Thermal Receipt Printer

The kiosk is equipped with a thermal receipt printer which is able to print 80mm width receipt.

Functions elements and control



Operator control panel

POWER LED

Continuous green light indicates POWER ON.

Error LED

Indicates status / error conditions through

Technical Data

Print technology	Direct thermal
Print speed	Up to 150mm per second
Print resolution	203 dpi
Ticket thickness	0.06 to 0.075mm
Ticket width	80mm
Ticket length	80mm minimum
Ticket output	one ticket at a time
Ticket stock roll size	80mm diameter maximum
Font and graphics	International character set, extended graphics & barcode printing User defined fonts and logo printing
Paper status detection	Paper low Paper out Black mark
Paper cutter	Automatic partial cut
Interface	Serial

Paper specification

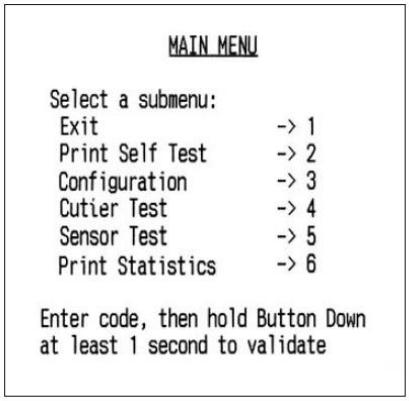
Paper roll width 82.5mm/80mm/76mm/69.5mm/57.5mm selectable

Max paper roll diameter 83mm

Printing self test

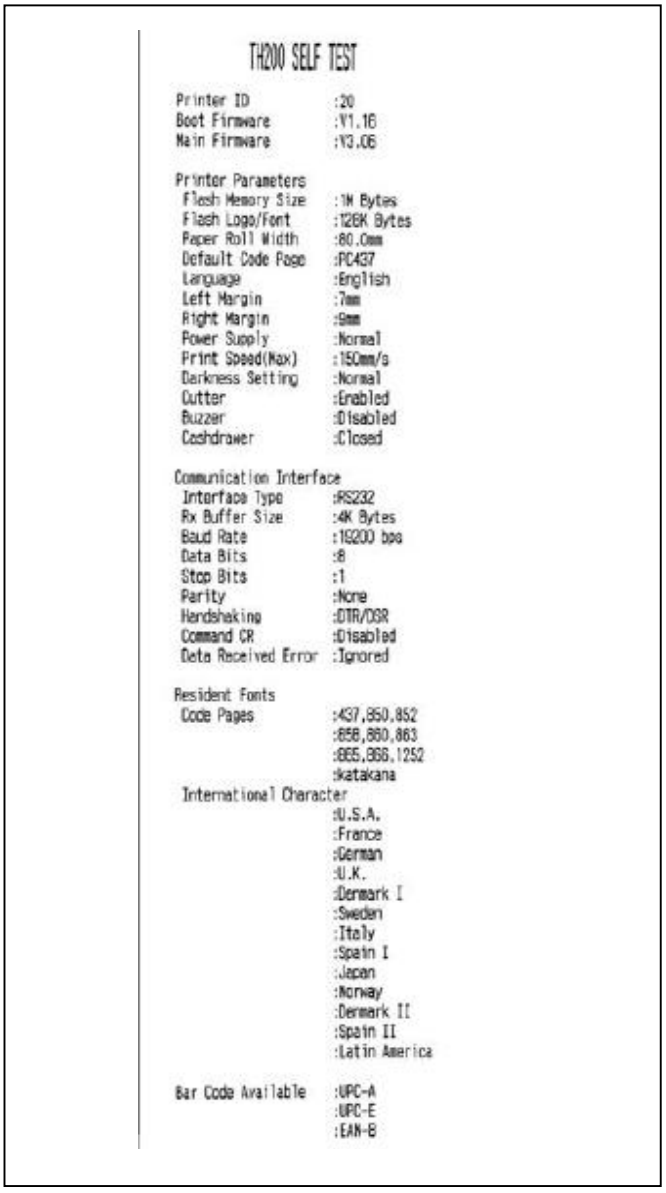
To assess the menu for the self test,

- Switch off the printer.
- Press the FEED button down for at least 2 seconds while turning on the power switch. The menu page will be printed (see below).



- Press the FEED button 2 times and hold for at least one second to print the self test.

Below is the sample of self test printout of the thermal receipt printer:



TH200 SELF TEST

Printer ID :20
Boot Firmware :V1.16
Main Firmware :V3.06

Printer Parameters
Flash Memory Size :1M Bytes
Flash Logo/Font :128K Bytes
Paper Roll Width :80.0mm
Default Code Page :PC437
Language :English
Left Margin :7mm
Right Margin :9mm
Power Supply :Normal
Print Speed(Max) :150mm/s
Darkness Setting :Normal
Cutter :Enabled
Buzzer :Disabled
Cashdrawer :Closed

Communication Interface
Interface Type :RS232
Rx Buffer Size :4K Bytes
Baud Rate :19200 bps
Data Bits :8
Stop Bits :1
Parity :None
Handshaking :DTR/DSR
Command CR :Disabled
Data Received Error :Ignored

Resident Fonts
Code Pages :437,850,852
:858,860,863
:865,866,1252
:Katakana
International Character
:U.S.A.
:France
:German
:U.K.
:Denmark I
:Sweden
:Italy
:Spain I
:Japan
:Norway
:Denmark II
:Spain II
:Latin America

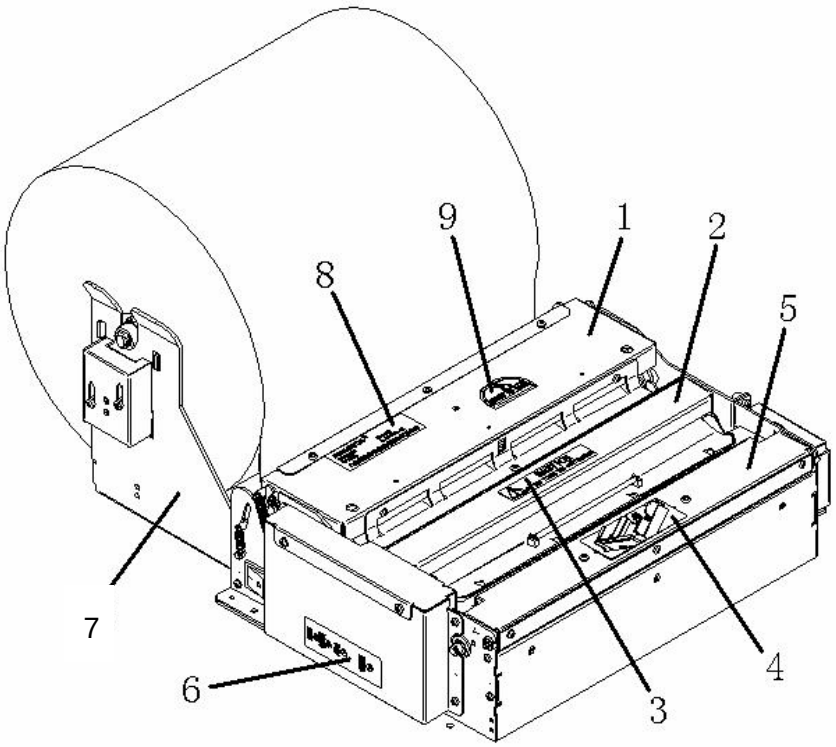
Bar Code Available :UPC-A
:UPC-E
:EAN-8

A4 Statement Printer

The kiosk is equipped with a thermal printer which is able to print A4 statement.

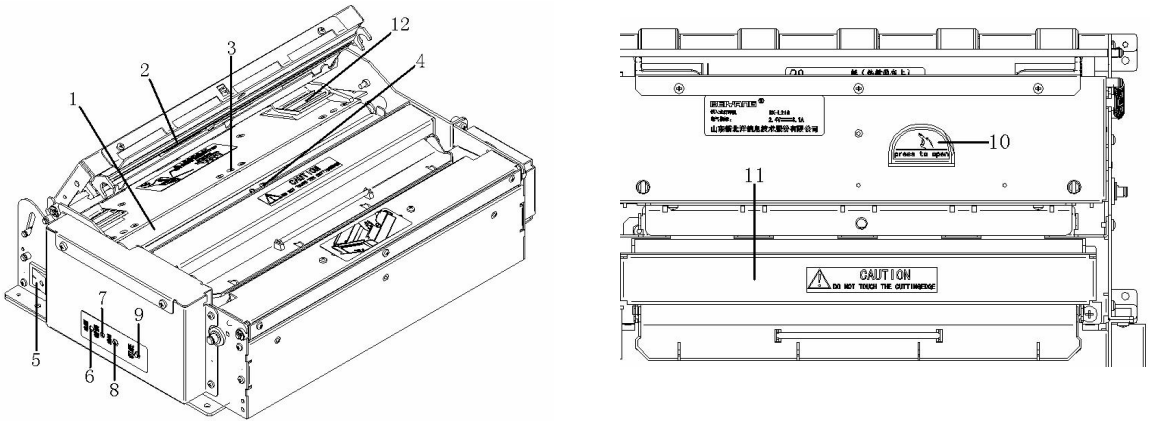
Print technology	Direct thermal
Print speed	Up to 75mm per second
Print resolution	300 dpi
Print width	210mm
Print Height	2x 292mm maximum
Paper roll outer diameter	150mm diameter maximum
Paper roll inner diameter	50mm diameter
Paper width	216 + 0/– 0.5 mm
Paper weight	80g/m^2
Thermal coating side	Face out
Recommended paper source	F24OAC / F220-VP［三菱制纸（株）］
Fonts and graphics	Standard ASCII font, Compressed ASCII font, Traditional Chinese character font, Barcode, BMP image printing
Paper status detection	- Paper low and out - Black mark
Paper cutter	Auto cut
Presenter	- Loop presenting method - Speed >300mm/s
Interface	USB

Function Element



1. Print unit
2. Cutter
3. Cutter label
4. Presenter upper cover open label
5. Presenter
6. Button pad
7. Paper holder
8. Product label
9. Print head cover open label

Printer mechanism module (without paper holder)



1. Print platen roller
2. Print head
3. Paper sensor
4. Paper loading sensor
5. Power switch
6. Power LED (Green)
7. Error LED (Red)
8. FEED button
9. CUT button
10. Printer upper cover opening button
11. Cutter
12. Paper guide module

Digital Color Camera

The USB Digital Coloured Web Cam (ORITE Model no.SC-120) is installed to provide the option for video-conferencing and interface to the iPOS through visual means.

Stereo Speakers

The stereo audio output is realised using two 8-ohm speaker.

- Stereo audio output, 2- way
- Speaker output, 3W (nominal) matched to 8-ohm speaker.

Advertising Light Box

The lighting solution implemented in the advertising light box is based on a 16W fluorescent lamp and electronic ballast. Different countries possess different power output standards hence electronic ballast rating may vary.

Maintenance and Cleaning

The device requires regular cleaning and maintenance will ensure the device continue to operate at it best performance.

The device must be switched off for service and maintenance work.

You should service and clean the parts of the device listed below at the specified intervals.

In addition, please note the following:

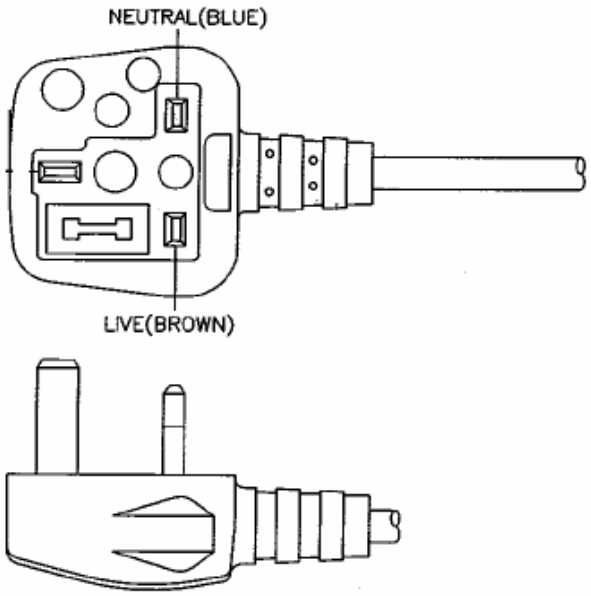
- Take care not to drop any cleaning liquids into the device.
- Only use the cleaning material listed in this manual. Do not use alcohol or thinners.

You can order the specified cleaning materials from your branch office or the Wincor Nixdorf division (see chapter "Appendix", section "Consumables" or "Approved Cleaning Materials").

Power Cord Selection

IMPORTANT: Power cord is supplied with the equipment and consumers have to use certified power cord 115V/60Hz.

The power cord for this unit has to select according to the country of destination. It must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set.



WARNING: **THIS APPLIANCE MUST BE EARTHED**

IMPORTANT: The wires in this main lead are colored in accordance with the following code:

Green:	Earth
Black:	Neutral
White:	Live

As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

- The wire which is colored Green must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or colored Green or Green and Yellow.
- The wire which is colored Black must be connected to the terminal which is marked with the letter N or colored Black.
- The wire which is colored White must be connected to the terminal which is marked with the letter L or colored White.

Appendix

Technical Data

MINT Kiosk System

DIMENSIONS

HEIGHT	approx.1612 mm
DEPTH	approx.292 mm
WIDTH	approx.430 mm

DIMENSIONS

WIDTH	approx.550 mm
DEPTH	approx.597 mm

WEIGHT

SYSTEM	Less than 100 kg

ENVIRONMENTAL CONDITIONS

OPERATING	Indoor air conditioned environment Temperature: 10 to 35ºC Relative humidity: 20 to 85% RH, non-condensing
TRANSPORTING	Temperature: -20 to 60ºC Relative humidity: 15 to 95% RH, non-condensing
STORAGE	Temperature: 5 to 40ºC Relative humidity: 5 to 85% RH, non-condensing

POWER SUPPLY 110-120 VAC, 60 Hz

POWER CONSUMPTION 500VA maximum

Consumables

You can order consumables and accessories from your Wincor Nixdorf branch office or from your Wincor Nixdorf sales partner. You can find information on the Internet under www.wincor-nixdorf.com under the keyword Service.

Approved Cleaning Materials

Product Name	Order Number	Explanations
Professional cleaning set for EDP devices *100 ml plastic cleaner in a pump bottle* *100 ml screen cleaner in a pump bottle* *50 dust cloths* *10 keyboard swabs for places difficult to reach*	106 000 03259	For cleaning and maintaining keyboards and varnished and plastic-coated housing.
Damp cleaning cloths *Dispenser box with 100 cloths*	106 000 24277	For cleaning and maintaining delicate EDP devices, keyboards and housing.
Dry cleaning cloths *Antistatic and fluff-free* *(Pack with 300 cloths)*	106 000 03330	For cleaning display panes.
Compressed air spray PRESSAIR *200 ml bottle without a valve*	106 000 03335	Cleaned compressed air, FCKW-free, for removing loose dust and dirt particles.
Screw-cap valve	106 000 03336	For PRESSAIR compressed air.
ISOPADS	6197 000 2228	Pure isopropyl alcohol for cleaning the display.
Cleaning card EDIX-CLEAN UNIVERSAL	106 000 18240	For cleaning magnetic heads and chip contacts in ID card readers.

Environmental protection

Product Development under Environmental Aspects

This product was developed in conformity with our internal norm “Environmentally suitable product design and development”.

Thus the decisive criteria such as long life, choice of material, material identification, packaging, emissions, ease of dismantling and possibilities for recycling have been taken into account.

This preserves resources and thus relieves the environment.

Economical Use of Energy

Please do not switch on devices, which do not need to be on continually, until they are required for use, and switch them off during long pauses and at the end of work.

Use of Consumable Materials

Please dispose of consumable printer materials and batteries according to the legal specifications of the country.

Stickers on Plastic Housing Parts

Please do not stick your own stickers on plastic housing-parts as these make recycling more difficult.

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