WINCOR NIXDORF

CERTO 417/A01 Kiosk System

Operating Manual

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Operating Manual

Edition Jan 2007

Contents

Manufacturer's Certification

The device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility" and 73/23/ECC "Low Voltage Directive".

Therefore, you will find the CE mark on the device or packaging.

Note on the laser

If your device is equipped with a CD-ROM drive, the following condition applies:

The CD ROM drive contains a light-emitting diode (LED), classified according to IEC 825-1:1993:LASER CLASS 1; it must not be opened.

Laser safety

The barcode scanner complies with safety standard EN60825-1 (2001) for a Class 1 laser product. It also complies with IEC 60825-1: 1993+1997+A2:2001. Laser Radiation – do not stare directly into beam.

Radiant Energy The barcode scanner uses a low-power laser diode operating at 650 nm in an opto-mechanical scanner resulting in less than 1.1 mW peak output power.

INTRODUCTION

This operating manual provides all the information required for operation of CERTO 417/A01 kiosk system.

Having studied the operating manual, you will be able to:

- replace consumables (e.g. paper),
- evaluate device-specific status displays and system error messages,
- eliminate problems (such as paper jams),
- properly operate the device.

Symbols used in this guide

- Text following this mark represents an item in a list.

“ “ Text in quotation marks contains references to other chapters or sections in this document.

● Paragraphs following this symbol are actions to be performed in the specific order.

Text following this symbol is the action to be performed in order to avoid damage or injury.

This symbol identifies paragraph that contain general notes to facilitate use of the device and help avoid operating errors.

Important Safety Precautions

Please read the following notes carefully before doing any work on the device.

This device complies with the relevant safety regulations for information processing equipment.

- Note the warning and information labels on the inside and outside kiosk as well as the peripherals.
- The device is equipped with a safety-tested power cable, which must be connected only to a grounded outlet.
- Always hold the plug when removing the power cable. Never pull the cable itself.
- Install cables in such a way that they will not be stepped on or tripped over or damaged or crushed in any way.
- Have damaged power cables replaced immediately.
- In case of an emergency (e.g. damaged cabinets, control or power cables, liquids or foreign objects in the device) take the following steps:

Inform the customer service responsible for you.

- In the event of a thunderstorm, data transmission lines must not be connected or disconnected.
- Only use accessories and extension components that have been approved by us. Nonobservance can result in damage to the system or violations of regulations concerning safety, radio interference and ergonomical requirements.
- To clean the device only use cleaning agents approved by Wincor Nixdorf International GmbH

Repairs

Repair work may only be carried out by authorized personnel.

Unauthorized opening of the device or repair work carried out improperly could result in considerable danger to the user.

In case of noncompliance, Wincor Nixdorf International GmbH excludes all liability.

Lithium Battery

There is danger of fire or explosion if the batteries are handled incorrectly. It is therefore important to note the following points:

- Avoid short circuits.
- Never recharge the battery.
- Avoid temperatures above 100 °C.
- Do not try to open the battery by force.
- Do not allow the battery to come into contact with water or fire.

Replace only with the same or an equivalent type recommended by Wincor Nixdorf International GmbH.

Dispose of used batteries in compliance with national regulations and the manufacturer's specifications.

DEVICE OVERVIEW

Device Type

The CERTO 417/A01 kiosk system is a multifunctional terminal designed for indoor installation.

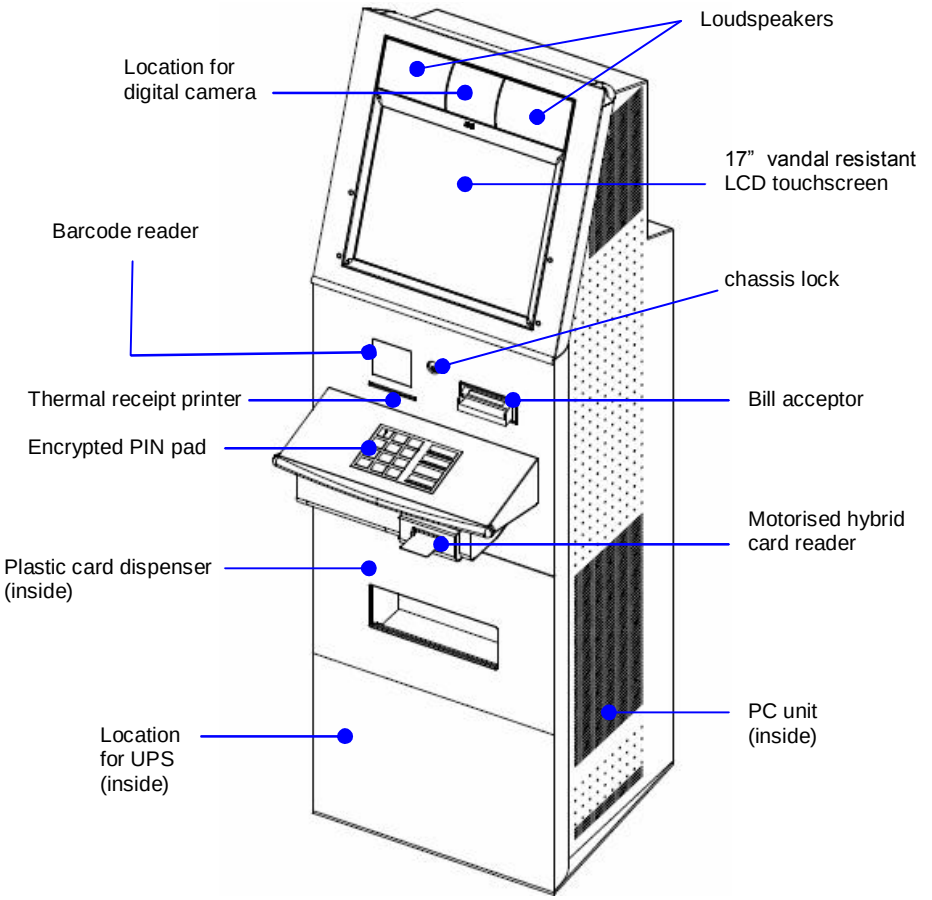
Components

The kiosk system may comprise of the following components:

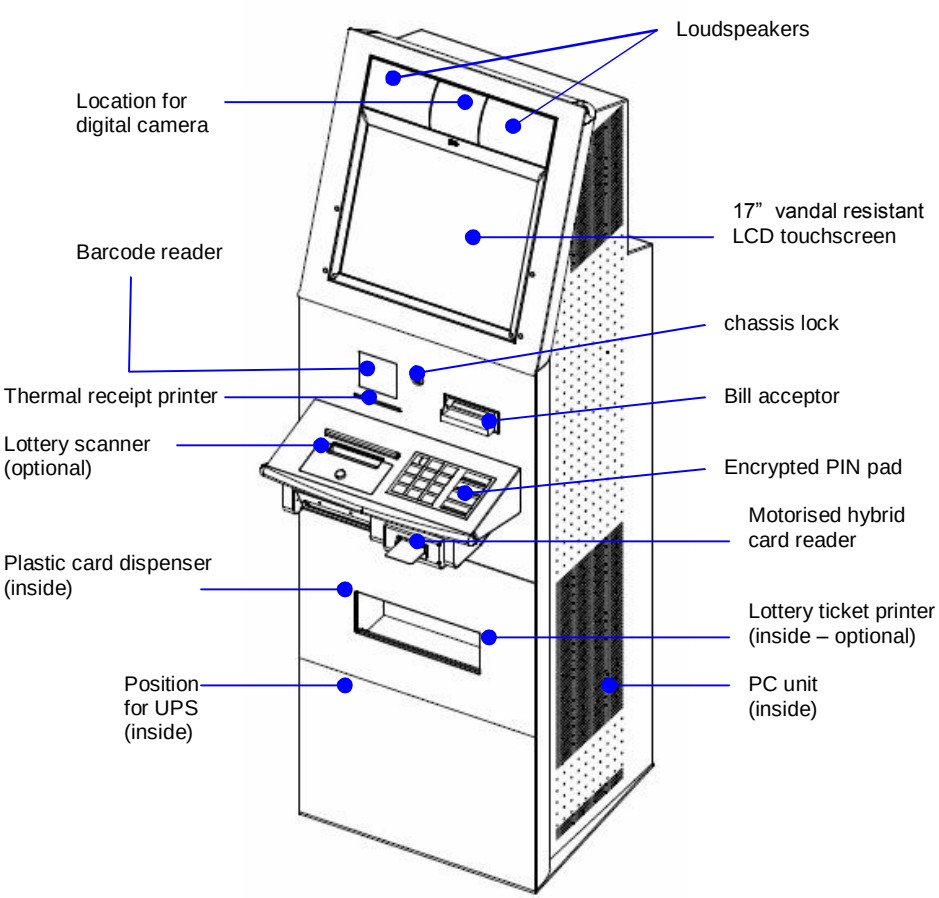
- 17” LCD display with vandal resistant touch screen
- 80mm thermal receipt printer TP07c
- P4 embedded PC unit
- Power supply unit
- Power distributor
- Loudspeaker
- Bill acceptor
- Electromechanical lock
- Barcode reader
- Motorized hybrid card reader
- Plastic card dispenser
- Encrypted PIN pad
- Lottery ticket scanner (optional)

- Lottery ticket printer (optional)
- UPS (consigned and integrated by the customer)
- Digital camera (consigned and integrated by the customer)

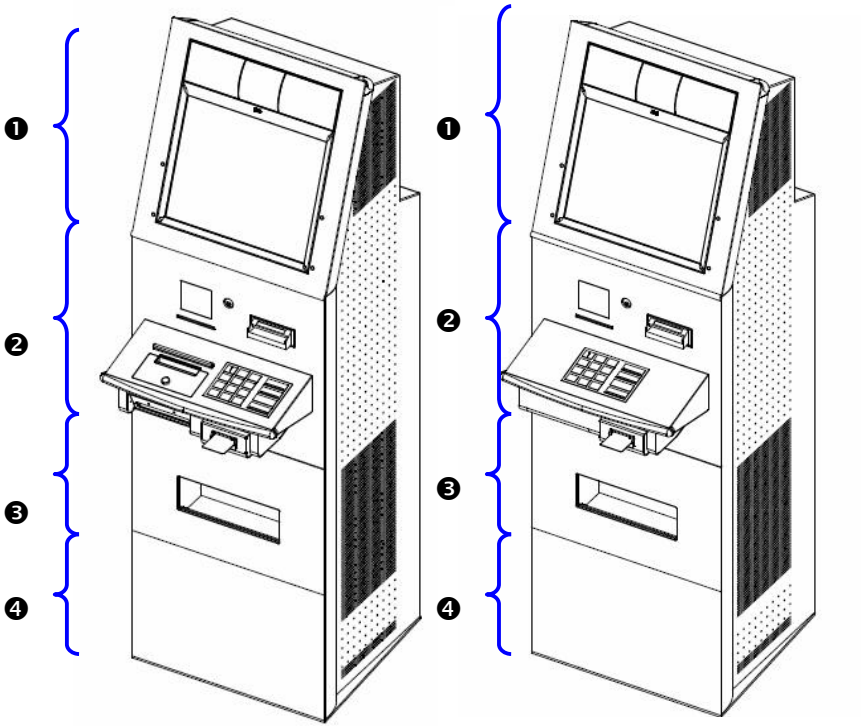
Device View for CERTO 417/A01 Model (without lottery option)



Device View for CERTO 417/A01 Model (with lottery option)



Device segmentation



❶ Upper chassis

❷ Middle front panel

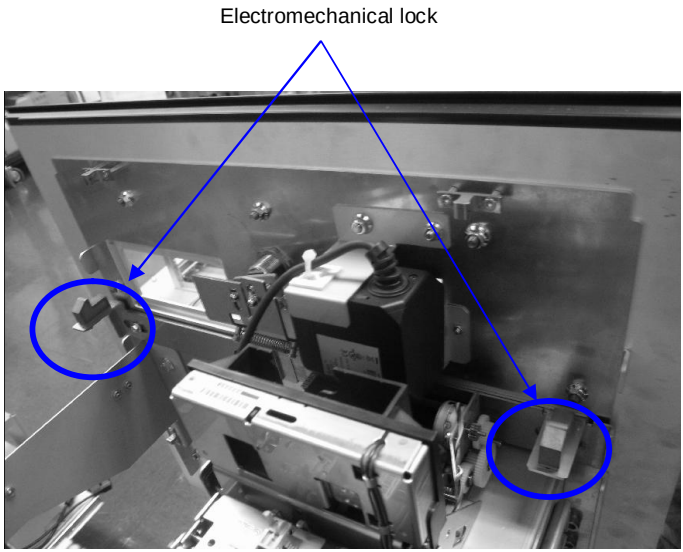
❸ Upper half of bottom front panel

❹ Lower half of bottom front panel

BASIC OPERATION

Opening / closing the device

- The device is equipped with a pair of electromechanical lock (see picture below for the location of the electromechanical lock).



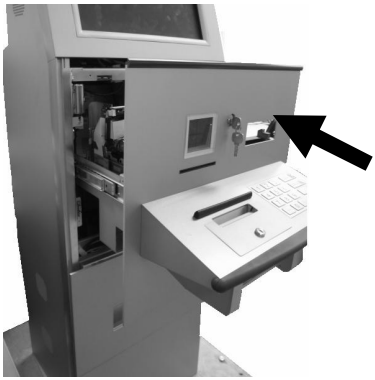
- With the electromechanical lock, the device is unlocked under the control of the application software.
- Follow the instruction of the application software to unlock the door.

Pulling out the middle front panel:

- Grasp the middle front panel on both sides and pull it out of the kiosk as far as possible (see arrows).

Pushing in the middle front panel:

- Push the middle front panel into the kiosk (see arrow) and the door will be locked mechanically.



In the event of electromagnetic lock fails:

- The mechanical key lock overrides in the event of power failure or lock failure.
- The door could be locked / unlocked with the set of keys given.

To unlock the door:

- Insert the supplied key into the lock and turn it in the direction of the arrow.

To lock the door:

- Turn the key in the direction indicated by the arrow and remove it from the lock.

Switching on / off the device

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

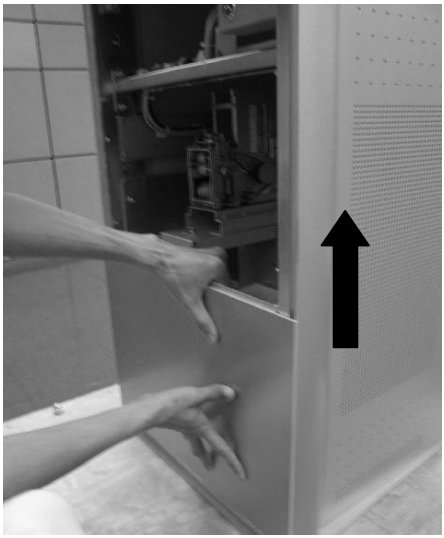
- In case the device is not started up upon powered on, check the power switch of the power distributor and ensure it is in switch on mode (as its default setting).

Removing / inserting bottom front panel

Removing bottom front panel:

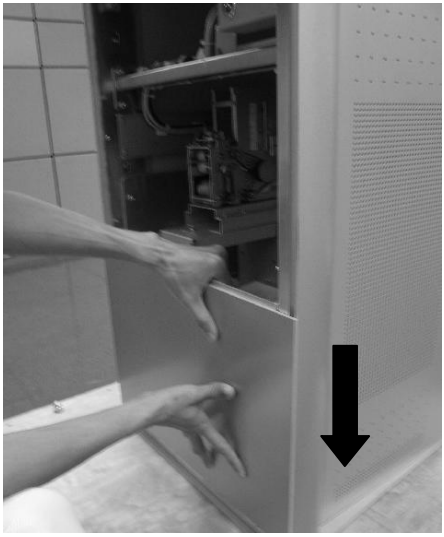
- Pull out the middle front panel (see chapter “Basic Operation”, section “Opening / closing the device”).
- Lift the upper part of the bottom front panel upward to remove the upper part of the bottom front panel (see arrow in the picture below).

- Lift the lower part of the bottom front panel upward to remove the lower part of the bottom front panel (see arrow in the picture below).



Inserting bottom front panel:

- Align the lower part of the bottom front panel to the chassis frame. Slide the lower part of the bottom front panel downward (see arrow in the picture below) and make sure the panel is engaged properly to the chassis.



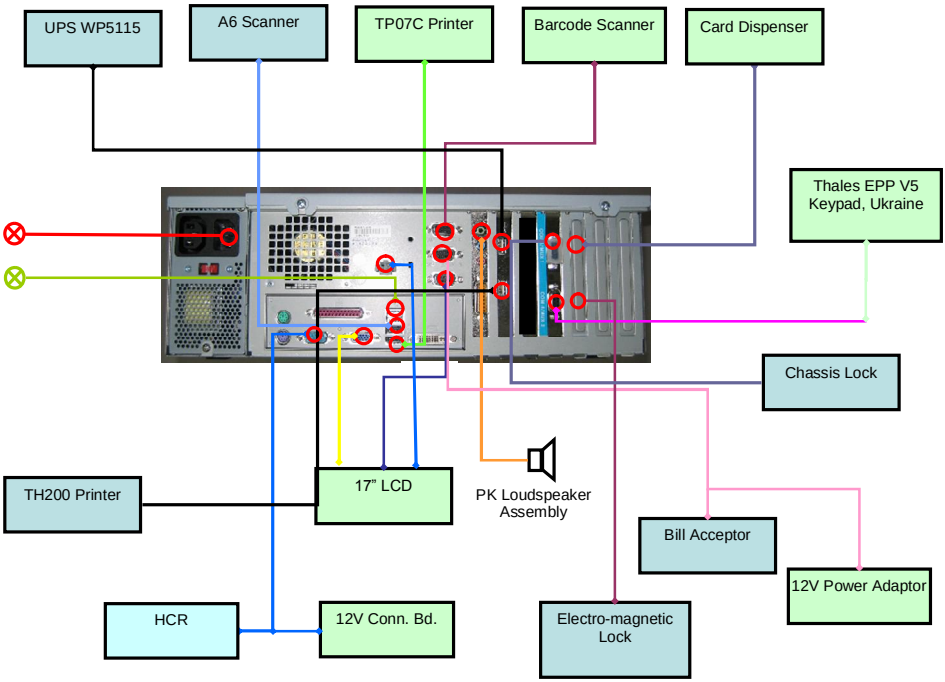
- Align the upper part of the bottom front panel to the chassis frame. Slide the upper part of the bottom front panel downward (see arrow in the picture below) and make sure the panel is engaged properly to the chassis.

- Push in the middle front panel (see chapter “Basic Operation”, section “Opening / closing the device”).

Embedded Compact PC

Overview of Compact PC

The device is equipped with a Celeron 4 Embedded Compact PC.



power connection

LAN connection

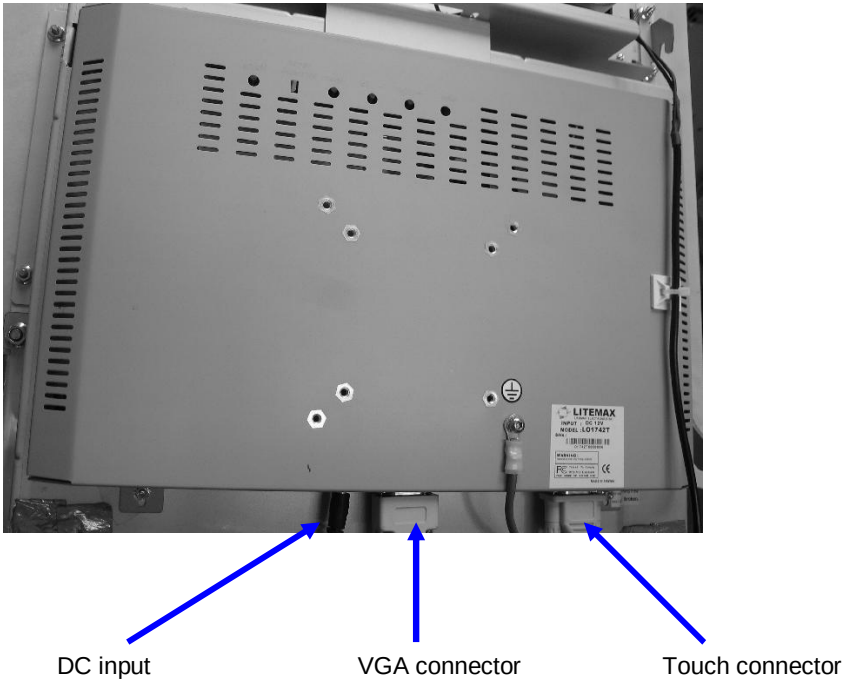
Technical Data

Motherboard	P195-Plus Motherboard
Chip set	Intel 845GV
CPU	Intel Celeron 2.4 GHz or higher, upgradeable up to Pentium 2.8GHz
Mass storage	IDE HDD 80 GB
System memory	DDR 512 MB, expandable up to 2GB
Video	Onboard graphic controller - 2D/3D graphic - 350MHz 24-bit RAMDAC - Maximun 2048x1536 at 60Hz - 1 x DVI - 1 x Analog RGB
Audio	Onboard audio AC97 controller - Integrated 4 watt amplifier - 1 x Speaker-out - 1 x Line-in
I/O port	- 1 x PS/2 - 1 x Mouse port - 1 x Parallel port - 8 x RS232 serial port - 6 x USB port
Network interface	1x onboard 10/100Mbps LAN
Expansion slot	1 x free PCI slot

17” Touch screen LCD

The kiosk is equipped with 17” Litemax LCD display with vandal resistant capacitive touch sceen.

Connectors



How to Operate

The Touch Screen responds to the slightest contact, therefore you do not have to apply much pressure when working with the screen. This does not only safe time, but is also kind to your joints!

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.

Cleaning Instructions

Always **turn off the system** before cleaning.

The glass surface of your Touch Screen should be cleaned with a mild, abrasive free, commercially available glass cleaning product. All pH neutral materials (pH 6 to 8) are good for cleaning. Cleaners with pH values 9 to 10 are not recommended. Cleaning with water and isopropyl alcohol is possible as well. Do not use solvents containing acetic acid. Use a soft, fine-meshed cloth to clean the surface. Dampen the cloth slightly and then clean the screen.

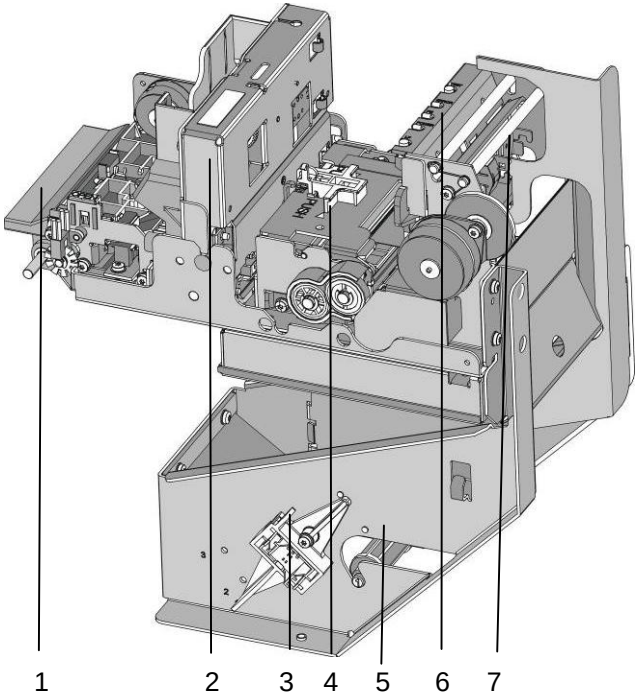
A wrong maintenance may cause damages to the screen, which are not covered by guarantee or warranty.

Technical Data

Video display	17” TFT colour LCD Resolution: 1280 x 1024 pixels Brightness: 300 cd/cm^2 Analog RGB interface
Input device	17” vandal resistant touch screen Meet UL 60950 for impact resistance RS232C interface

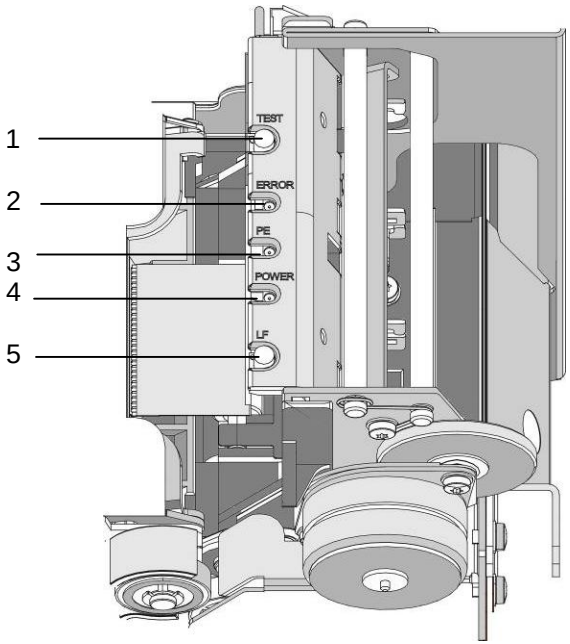
Receipt Printer TP07c

Function components



1 Receipt output (presenter)
2 Cutter
3 Paper core adjustment
4 Thermal print module
5 Paper roll holder
6 Printer control panel
7 Paper guide

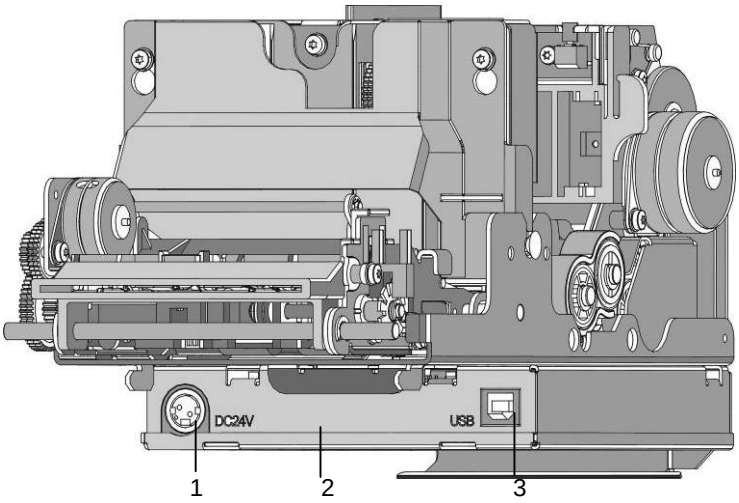
Printer control panel



1 TEST-button
2 LED ERROR
3 LED PE (paper end)
4 LED POWER
5 LINE FEED-button

1 TEST button	For test diagnostic printout.
2 LED ERROR red	Off: normal condition On: offline Blinking: error (see section „ERROR LED Blink Pattern“)
3 LED PE (paper end) yellow	Off: paper is loaded On: paper roll near end is detected Blinking: paper roll end is detected
4 LED POWER green	Off: power is not stable On: power is stable
5 LINE FEED button	When the button is pressed once, the paper feeds 1/6". When the button is pressed longer than two seconds, the paper is fed constantly until the button is released.

Printer Connectors



1	Power supply connector	for power supply connection with 24V
2	Printer controller	
3	USB (Full Speed)	For system connection

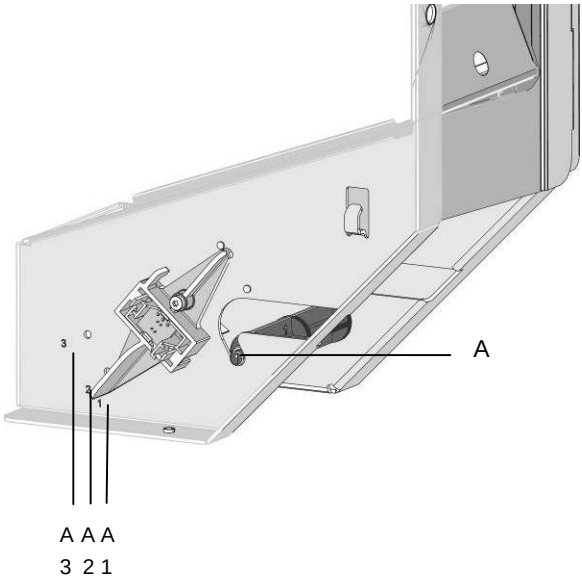
Changing the paper roll

Note the following when changing a paper roll.

Setting the paper roll core diameter

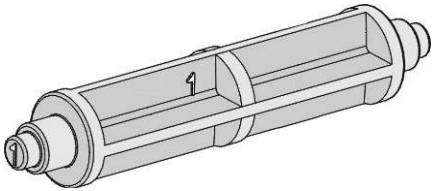
When starting the device or when changing the paper roll diameter check whether the selection switch for the paper near end adjustment is set to the correct position.

Core diameter	Paper roll diameter 180 mm
18 mm	Pos. A1
25 mm	Pos. A2
40 mm	Pos. A3

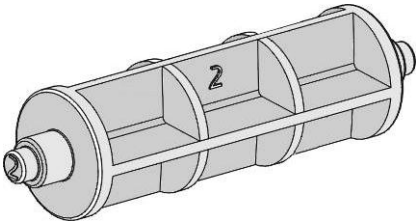


Choosing a paper roll holder

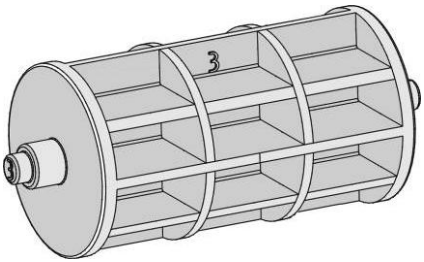
Choose the roll holder which fits to the paper roll core



Holder for 18 mm core diameter (identifier 1)



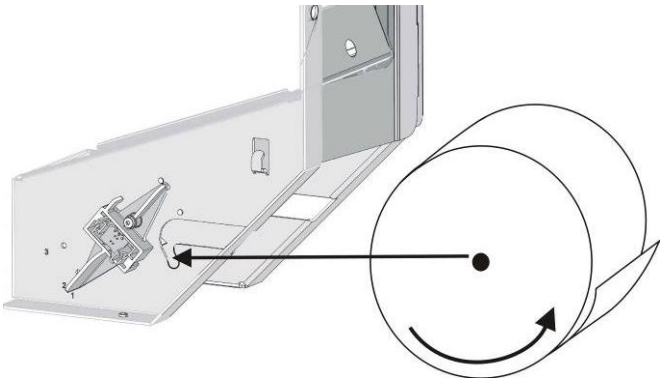
Holder for 25 mm core diameter (identifier 2)



Holder for 40 mm core diameter (identifier 3)

Inserting the paper roll

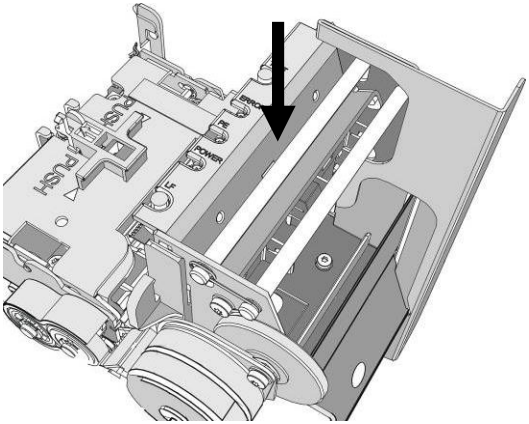
Push the paper roll holder into the paper roll core.
Insert the paper from behind into the printer as shown in the illustration.
Mind the unrolling direction of the paper.



Insert the black mark sensor (top left, top right, bottom left, bottom right) when using paper with black marks.

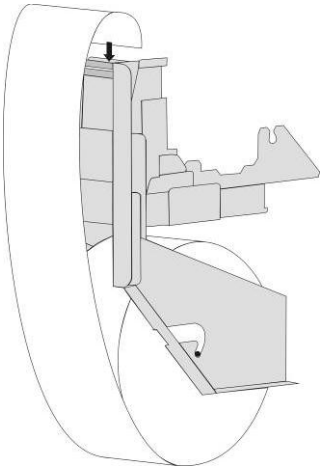
For correct paper feed or paper transport the front edge of the paper has to be straight and at right angles.

We, therefore, it is recommended to cut the paper with scissors.



Take the front edge of the paper over the upper axle and feed it into the paper support (see arrow).

Keep pushing the paper into the paper support until it is retracted automatically, the paper is cut off and the printed receipt is output via the presenter.



.

See also the sticker on the printer.

- Remove the receipt that was cut off before.

Removing the paper roll

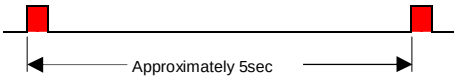
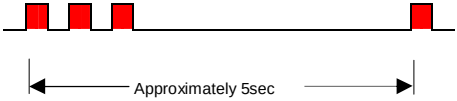
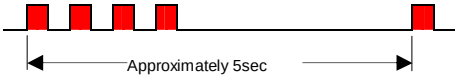
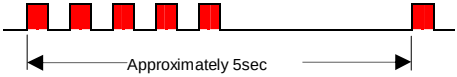
Cut off the paper at the paper support. Lift the paper roll out of the printer with the paper roll holder upwards. Use the LINE FEED button to remove the remaining paper.

ERROR LED Blink Pattern

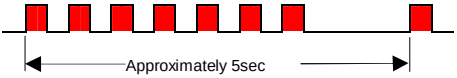
Recoverable Errors

The following table shows the blink pattern of all errors, that can be recovered by following the steps described in section “Paper feed error”.

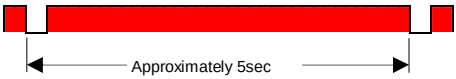
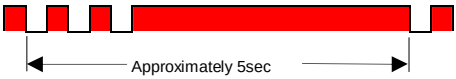
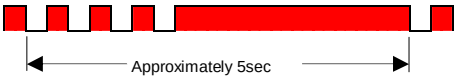
LED OFF LED ON

Error	Description		ERROR LED Blinking Pattern
Paper jam while cutting	The automatic cutter doesnot work because it does not leave or does not reach the home position.	1	
Paper jam before cutting	A paper jam is detected between print starting position and TOF sensor.	3	
Black Mark detecting error	The printer does not find the Black Mark.	4	
Paper jam after cutting – in presenter	A paper jam is detected after the printer cuts the paper. This occurs in the printers’ presenter.	5	

The following errors can be recovered by removing and inserting the paper roll:

Error	Description		ERROR LED Blinking Pattern
TOF position not found	After cutting the printer does not find the TOF position.	7	
Operation after power on error	Paper is after power on not at the print starting position. This error is enabled by memory switch 7-4.	8	
StartOfJob timeout	StartOfJob timeout occurred because no EndOfJob was received within the specified time.	∞	

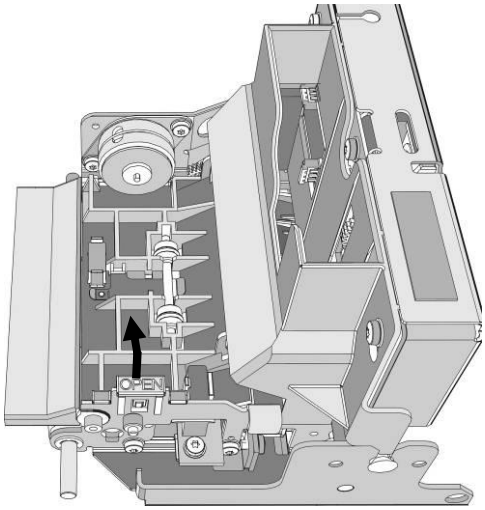
Unrecoverable Errors

Error	Description		ERROR LED Blinking Pattern
Temperature error thermal print head	There is an abnormality of the print line temperature	1	
High voltage error	The power supply voltage is extremely high.	3	
Low voltage error	The power supply voltage is extremely low.	4	

For recovery please contact the Technical Services.

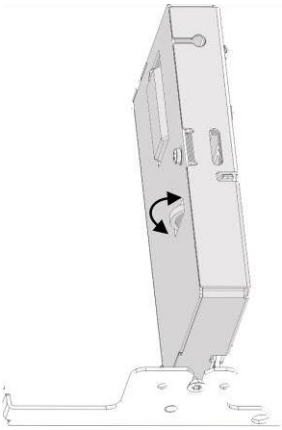
Paper transport error

In case of a paper jam open the presenter by releasing the stop lever (Take out the presenter, see illustration).

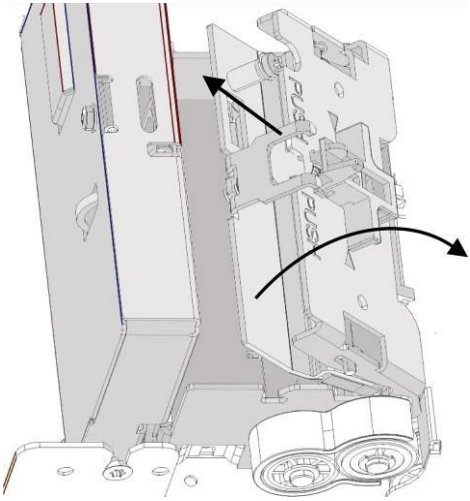


Check the paper transport path and remove the paper scraps, if necessary.

Check whether the cutter is in home position. If it is not, use the thumb wheel as long as you can see the auburn plastic part on top of the cutter.



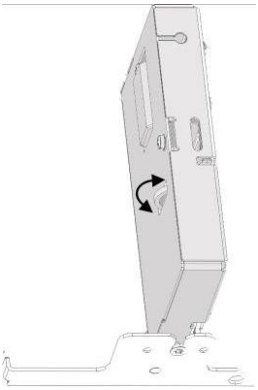
Check the print area of the thermal head for paper scraps. Use the green lever and flap the printing unit upwards.



Cut off the remaining paper at the paper support and pull it out.
Check if the paper roll is inserted correctly or a paper roll without black mark is inserted.
Reinsert the paper (see section "Inserting the paper roll").

Cutter error

Check whether the cutter is in home position. If it is not, use the thumb wheel as long as you can see the auburn plastic part on top of the cutter.



Unplug the power plug and plug it again. This should initialize the printer.
If this does not help, please contact the Technical Service.

Error thermal print temperature, high voltage/low voltage

- Please contact the Technical Services

Technical Data

Technology	Thermal receipt printer	
Graphic	203 x 203 dpi (8 dots/mm)	
Print speed	up to 150 mm/sec	
Character pitch	10.2 / 12.7 / 14.5 / 16.9 / 20.3 cpi	
Character per line	28 char/line	10.2 cpi
	36 char/line	12.7 cpi
	41 char/line	14.5 cpi
	48 char/line	16.9 cpi
	57 char/line	20.3 cpi
Line pitch inch	6 and 8 lines/inch additional micro steps n/203	
Print attributes	- inverse	
	- underline	
	- bold	
	- upside down	
	- turn (90° steps)	
	- n-times heights (1-8)	
	- n-times width (1-8)	
Code pages	- 437 (IBM set II)	
	- 850 (Multilingual)	
	- 852 (Latin II9)	
	- 858 (Latin II, EURO Symbol)	
	- 860 (Portuguese)	
	- 863 (Canadian French)	
	- 865 (Nordic)	
	- 866 (Cyrillic)	
	- 1252 (Windows and loadable)	
Interface	USB (Full speed)	
Power supply	24V	
Sensors	- Paper near end	
	- Paper end	
	- Top of Form	
	- TOF mark	
	- Presenter out	
	- Cutter	

Consumables

Paper products

Please refer to the following paper specifications for details on the paper quality.

Paper specification

Paper quality	OJI KF50 – HDA or equivalent
Paper type	Thermal paper on rolls (thermal layer on the outside)
Paper color	white
Paper thickness	min 0.06 – max 0.1 mm
Paper smoothness (print side)	min. 300 Bekk Sec.

Receipt roll dimensions

Paper width	80 mm (- 1mm)
Paper weight	55g/m^2 – 80g/m^2
Outer receipts roll diameter max.	180mm
End of Paper	not glued to roll core
Inner diameter of roll sleeve	18 mm, 25 mm or 40 mm (+ 1 mm)
Paper core wall thickness	2mm (+ 1mm)
Paper core material	cardboard/ plastic

Black mark print

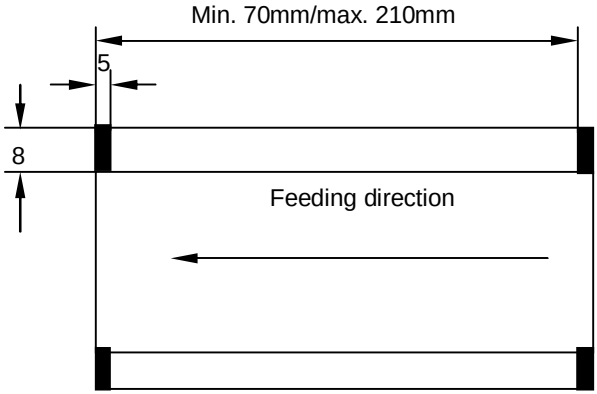
Printing properties

Opacity	≥85 % according to DIN 53 146
PCS value control mark	≥70 % according to DIN 66 223
Position	left or right or both on the same height
Reflection factor Ro	≥70 % according to DIN 53 145 part 1

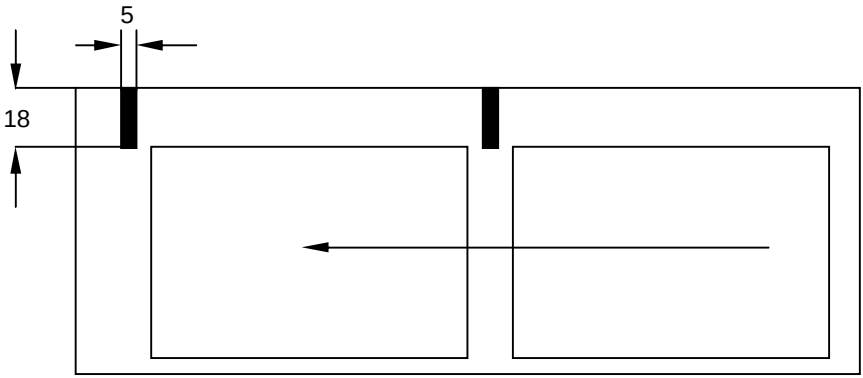
Dimensions

Mark height	5 mm ±0,1 mm
Mark width	8 mm ± 0,1 mm
Mark color	black, uncoloured black
Black mark distance	min. 70 mm, max. 210 mm

Front side
all dimensions in the drawings in mm



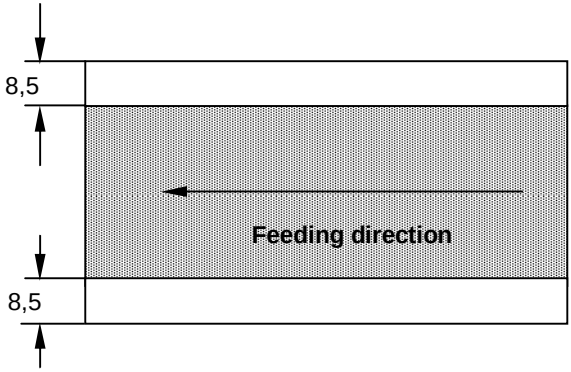
Rear side

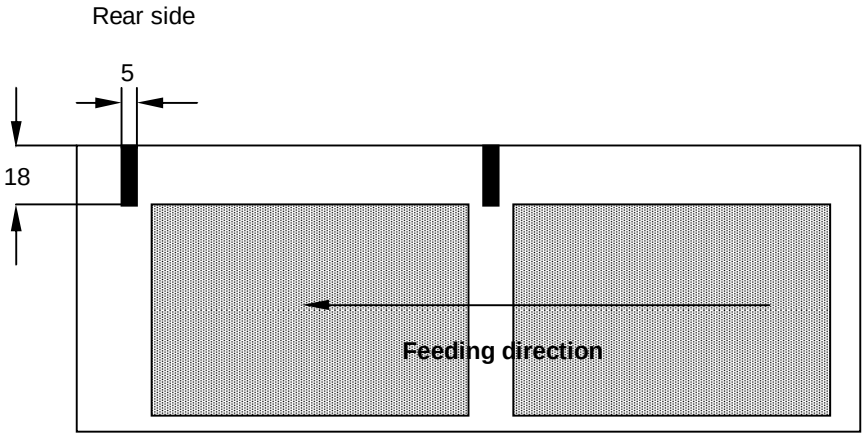


Pre-printed receipts

The receipts can be pre-printed on the front and on the back side in the hatched area (see illustration).
In case of pre-printing outside the specified area the PCS value must be lower than 40%, and no sensor-sensitive colors should be used. The sensor light should be reflected completely by pre-printed colors.

Front side




Rear side
5
18
Feeding direction

Barcode Scanner

The omnidirectional scan pattern offers outstanding scan performance on all standard 1D bar code symbologies, including RSS.

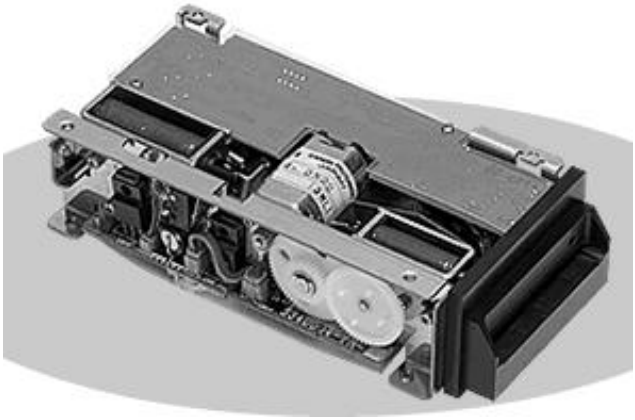
The scanner's main cable connector is located at the top of the unit to facilitate mounting and the auxiliary connector gives users access to several of the I/O signals, providing the flexibility for external hookup of beepers, buttons, and LED's.

The barcode reader is equipped with powerful features such as easy programming, user replaceable cables and upgradeable software.

Technical Data

Light Source	Visible Laser Diode 650 nm
Laser Power	1.1 mW (peak)
Decode Capability	Autodiscriminates all standard 1D bar codes, including RSS-Expanded,RSS-14 and RSS-14 Limited;
System Interfaces	RS232, Light Pen Emulation, Keyboard Wedge, Stand Alone Keyboard, IBM 468x/469x, USB, Laser Emulation, OCIA
Number Characters	Read Up to 80 data characters
Beeper Operation	7 tones or no beep
Indicators	Blue = laser on, ready to scan White = good read
Input Voltage	5 VDC + 0.25 V
Power	1.375 W
Operating Current	275 mA typical @ 5 VDC
DC Transformers	Class 2; 5.2 VDC @ 650 mA
Laser Class	Class 1; IEC60825-1:1993/A1:1997+A2:2001 Class 1; EN60825-1:1994/A11:1996+A2:2001
EMC	FCC, ICES-003 & EN55022 Class B
Depth of Scan Field	25 mm - 279 mm (1” - 11”) for 0.33 mm (13 mil)
bar	code(programmable) at default setting
Width of Scan Field	30 mm (1.2”) @ 25 mm (1.0”); 150 mm (5.9”) @ 280 mm (11.0”)
Scan Speed	1650 scan lines /sec, omnidirectional; 80 scan lines /sec,single line
Scan Pattern	5 fields of 4 parallel lines omnidirectional; or button activated single line
Number of Scan Lines	20 (omnidirectional); or 1 (single-line)
Minimum Bar Width	0.127 mm (5.0 mil)
Print Contrast	35% minimum reflectance difference
Roll, Pitch, Yaw	360°, 60°, 60°

Motorized hybrid card reader



The motorized hybrid reader reads the data on an ID card's magnetic stripe when the card is inserted.

When the card is inserted the chip data can be processed.

Inserting an ID card

When you insert an ID card, you should make sure that the magnetic stripe is in the correct position.

The ID card unit cannot read the ID card information correctly, unless you insert the ID card into the ID card unit as described below.

Insert the ID card into the card reader. The card will be motor driven & transported into the card reader.

Do not touch the card during the magnetic data read process. This will cause read error.

How the hybrid card reader works

When the card is inserted into the reader, it will be motor driven by the card reader to transport the ID card into the rear position of the card reader. The shutter in the reader will automatically close.

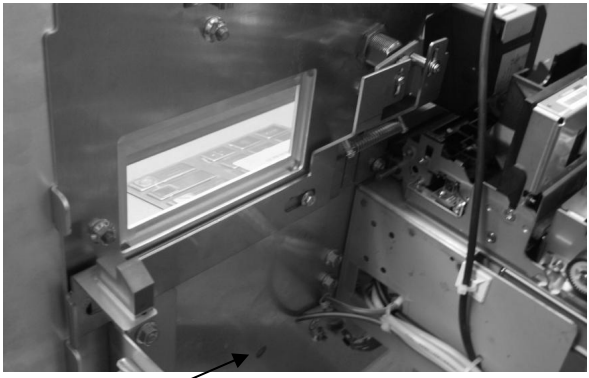
When the reader receives a card return command, the shutter will automatically open and return the card. The length is a minimum of 30mm from the slot when a card is returned.

However, a card will be retrieved into the reader inside by a command when the card is not pulled out within a certain time frame after it is being ejected.

Removing jammed card

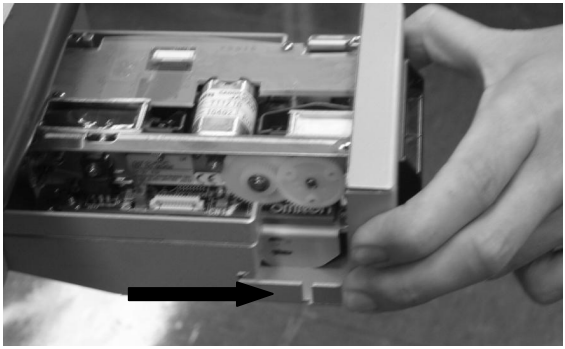
i The following steps to be handled only the authorized technical personnel.

- Remove the thumb screw that secure the holder of the hybrid card reader (see picture below for the location of the thumb screw).

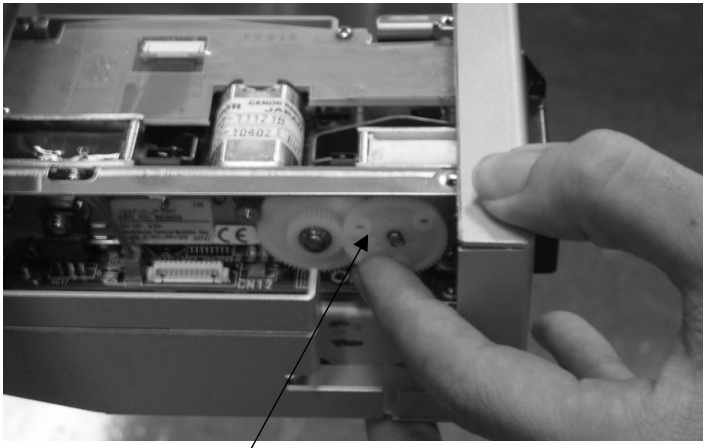


Thumb screw

- Pull out the holder of the hybrid card reader towards yourself, to its maximum (see arrow in the picture below).

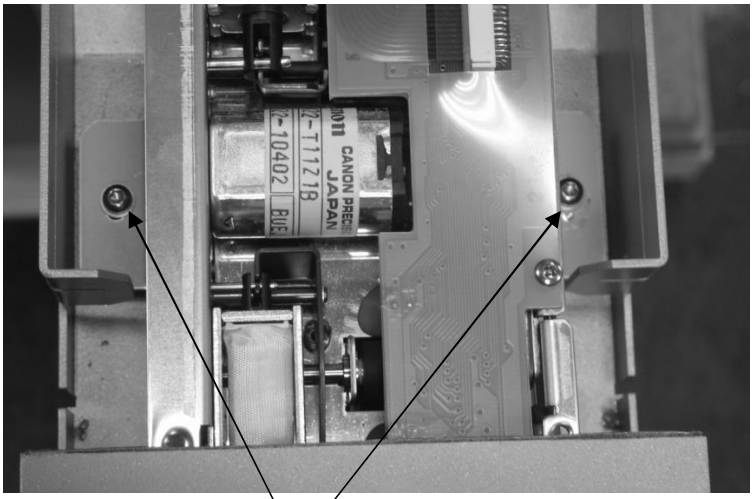


- Rotate the roller (see picture below) in anti-clockwise direction to retrieve the jammed card.



Rotate roller in anti-clockwise direction

- In the case that the rotation of roller is unable to retrieve the jammed card, remove the hybrid card reader by removing the 2 screws inside the holder of the hybrid card reader (see picture below).



Remove the 2 screws

- To secure the hybrid card reader back to the chassis, perform the reversed steps accordingly.

Technical data

Electrical	
Input Voltage	+12VDC +/- 10%
Power Consumption	500mA max (standby)
	1.0 A (read)
	2.0A max (solenoid fired)
Interface	HIF3FC-10PA-2.54DS (primary)
	EIAJ standard RC-5310A (power)
Connector type	RS-232C 38400bps max
Flash Memory	100K download cycles min
Mechanical	
Dimension	70(W) X 145(L) X 36(H) mm
Weight	~400g
Operating Method	Motorized card insertion
Operating Condition	
Operation	+5°C to 50°C, 5-85% RH
Storage	-20°C to 70°C, 5-85% RH

Performance	
Card Type	Magnetic card, ISO 7810-7813
	IC Card, Siemens SLE4418/28/32/42 / Memory card
	IC card, 7816/1-3 / EMV3.1.1 / Smart card
Magnetic Reading Technique	FM Decoding (F2F)
Read Speed	25cm/s 20% (normal)

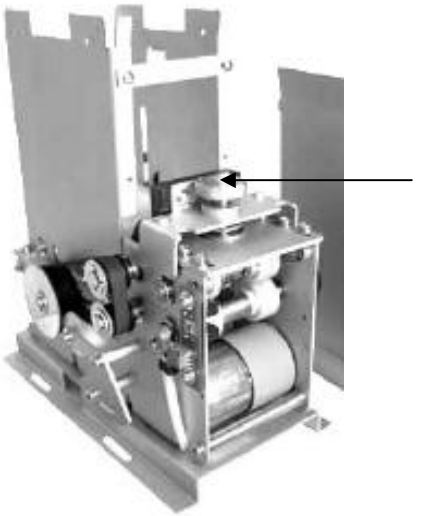
Encrypted PIN pad

The encrypted PIN pad allows the user to input their encrypted pin number to response to the device's application.

Technical Data

Model	Thales EPP V5 Ukraine
Construction	All metal keypad Vandal and weather resistant 4x sockets for SAM module
Security & encryption	Single DES Triple DES RSA (max. 2048 bit) Hash functions ISO PIN blocks Secure software download Secure cryptographic key download Remote key loading
Interface	RS232C

Plastic card dispenser



The kiosk is equipped with a motorized plastic card dispenser (CREATOR CRT-540).

Through the interactive of the device's application, the cards will dispensed from the plastic card dispenser and the user could collect the card at the output tray.

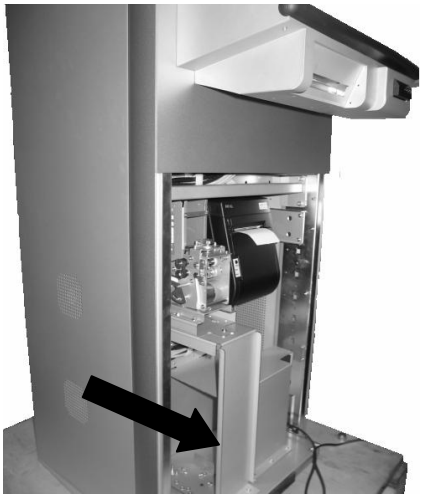
Dispensing plastic cards

- Depending on the device's application, follow the instructions on the screen to dispense the cards.
- When the card is dispensed, it could be collected at the output tray located in front of the upper part of the bottom front panel (see picture below).

Output tray for the collection of the dispensed cards

Refilling plastic cards

- Open the device and pull out the middle front panel (see chapter “Basic Operation”, section “Opening / closing the device”).
- Remove the upper and lower half of the bottom front panel (see chapter “Basic Operation”, section “Removing / inserting bottom front panel”).
- Pull out the slider that housed the plastic card dispenser towards yourself to ease the accessibility of the plastic card dispenser (see the arrow in the picture below).



- Fill in the new cards into the card holder (see arrow in the picture below).

- Reinstall the upper half of the bottom front panel (see chapter “Basic Operation”, section “Removing / inserting bottom front panel”).

- Push in the middle front panel and close the device (see chapter “Basic Operation”, section “Opening / closing the device”).

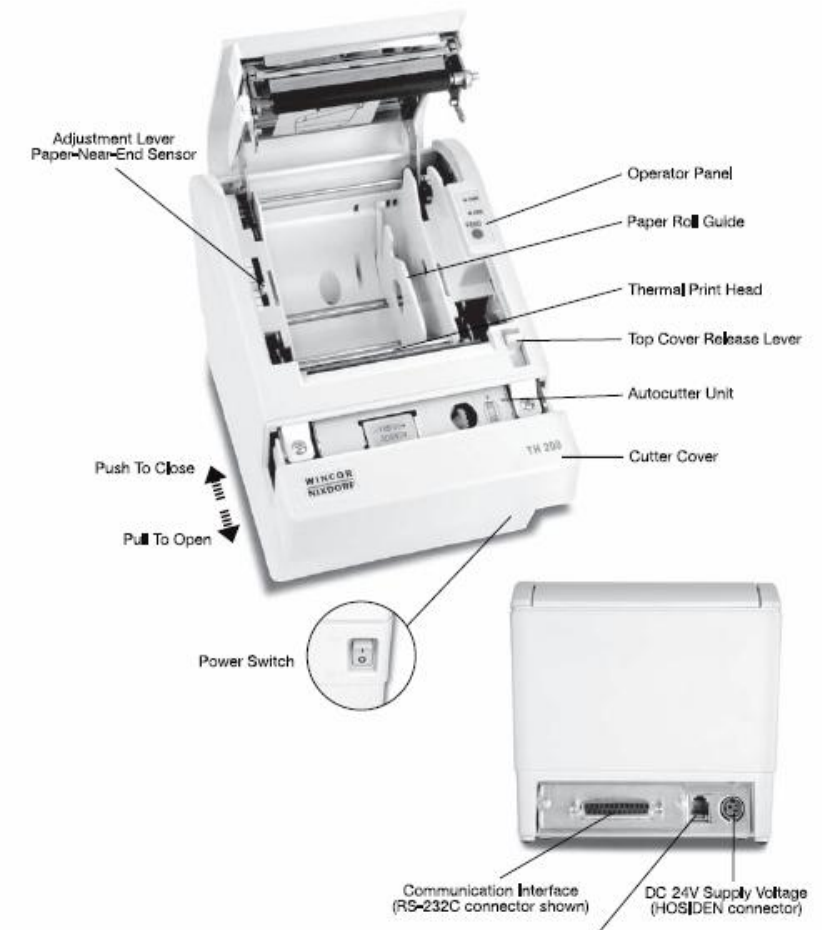
Technical Data

Power supply	DC24V ± 10%
Current consumption	Static current 0.1A Peak current during operation 1.5A (700mA in normal condition)
Card feed-out speed	> 2 cards/s
Communication	RS232C or TTL
Card standard	Size: 55x86 mm Thickness: 0.20~2.0mm (factory pre-set at: 0.8mm)
Weight	2.0kg Approx.
Card stacking capability	120 pcs in case of 0.76mm card (can be set to 1000 pcs max)
Card pre-empty detection	7~50 pcs ±2 pcs (ex-working setting: 15 pcs)
Environmental conditions	Operation:-10~75°C, 0~90% RH (without condensing) Storage: -25~80°C, 0~95% RH (without condensing)

Lottery ticket printer (optional)

The kiosk could be equipped with a lottery ticket printer – Wincor Nixdorf TH200B-150 receipt printer as option. It is used to output the scanned data from the lottery scanner.

Functions elements and control



Operator control panel

POWER LED
Continuous green light indicates POWER ON.

Error LED
Indicates status / error conditions through different blinking patterns.

FEED button
Press to feed paper. Pressing FEED button for a few seconds while switching on the power will enable the printer menu.

Collecting the printed lottery receipt

- The printed lottery receipt could be collected at the output tray located at the upper part of the bottom front panel (see picture below).

Technical Data

Print technology	Direct thermal
Print speed	Up to 150mm per second
Print resolution	203 dpi
Print width	80mm
Ticket thickness	0.06 to 0.075mm
Ticket width	82.5mm
Ticket length	100mm 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 full cut
Interface	USB

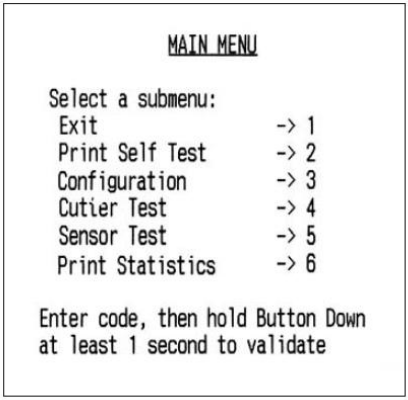
Paper specification

Paper roll width	82.5mm/80mm/76mm/69.5mm/57.5mm selectable
Max paper roll diameter	83mm

Printing self test

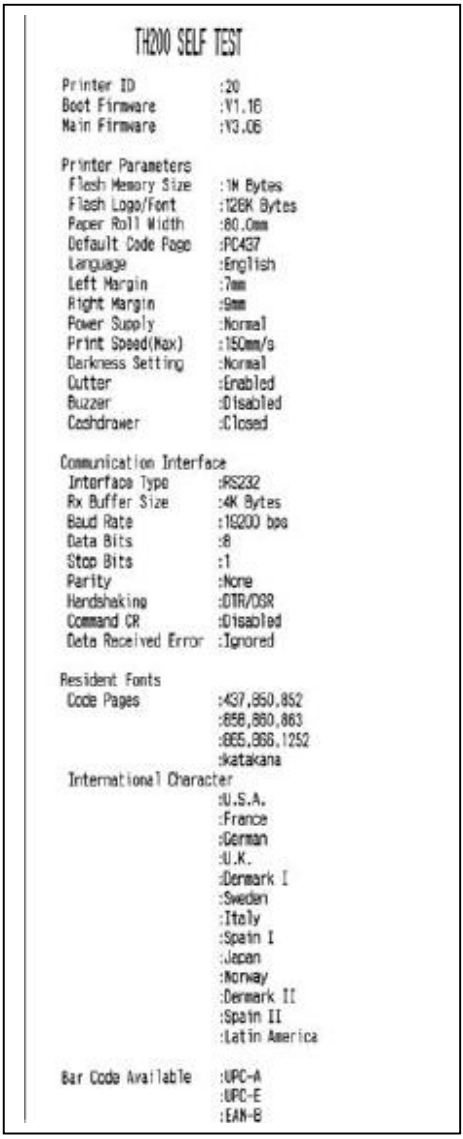
To assess the menu for the self test,

- 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 lottery ticket 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
```

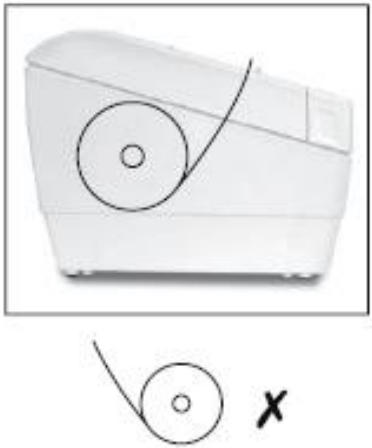
Changing the paper roll

- Open the device and pull out the middle front panel (see chapter “Basic Operation”, section “Opening / closing the device”).
- Remove the upper half of the bottom front panel (see chapter “Basic Operation”, section “Removing / inserting bottom front panel”).
- 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.

- Reinstall the upper half of the bottom front panel (see chapter “Basic Operation”, section “Removing / inserting bottom front panel”).

- Push in the middle front panel and close the device (see chapter “Basic Operation”, section “Opening / closing the device”).

Cleaning the print head

Paper dust on the heating elements may lower the print quality. In this case, clean the print head as follows:

- Open the printer cover
- Clean the thermal elements of the print head using a cotton swab moistened with alcohol solvent (ethanol, methanol, IPA).

i Do not touch the print head thermal elements.
Do not scratch the print head.

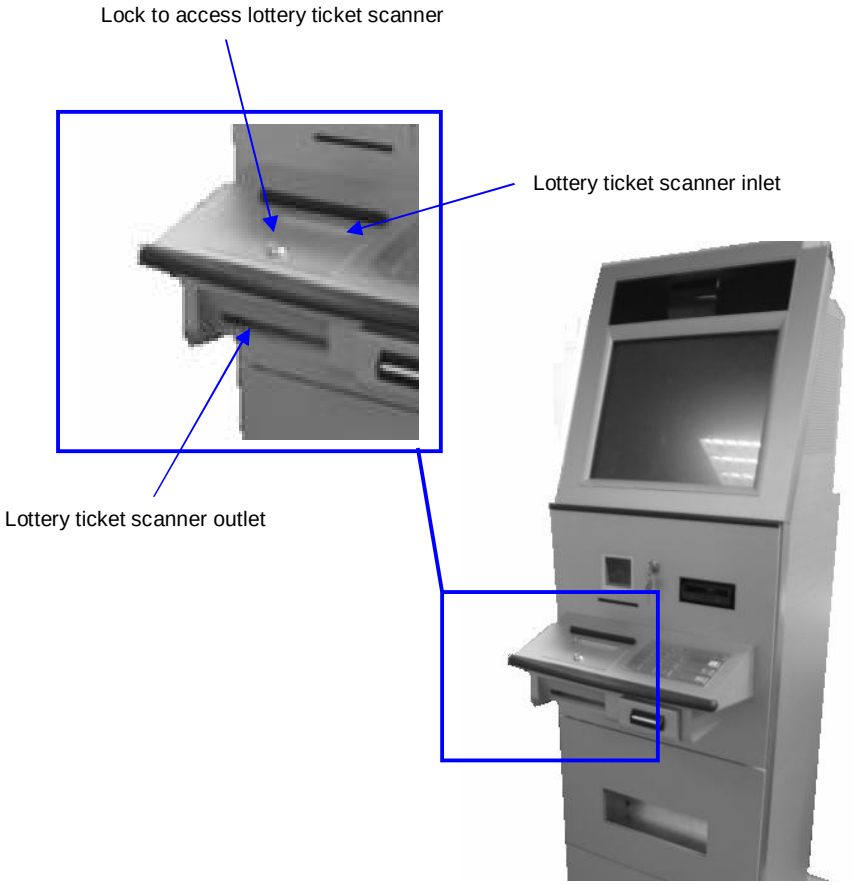
- Insert a paper roll and close the print head.

i The print head becomes very hot just after printing and is very dangerous. Be sure to allow the print head to cool down (after printing) before cleaning it. Also, be sure to turn off the printer power before cleaning the print head.

Depending on the paper roll used, paper dust may stick to the platen roller and paper roll end sensor. To remove the paper dust, clean the platen roller and paper roll end sensor with a cotton swab moistened with water.

Lottery ticket scanner (optional)

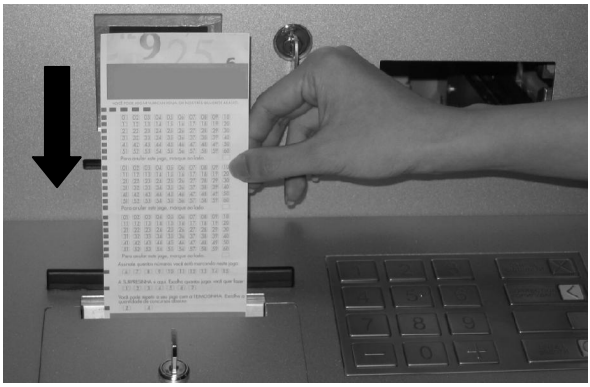
The kiosk could be equipped with a lottery ticket scanner – Wincor Nixdorf Xiscan /S lottery scanner as option.



Operating the lottery ticket scanner

- Insert the bet slip to the lottery ticket scanner via the lottery ticket scanner's inlet. Ensure that the bet slip is being inserted in the correct direction – the front of the bet slip facing the user (see picture below).

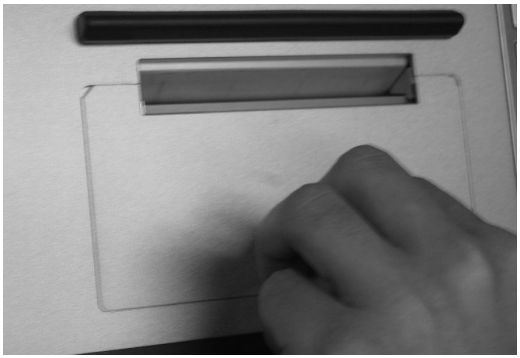
i **DO NOT attempt to insert the bet slip from the lottery ticket scanner's outlet as this will cause paper jam.**



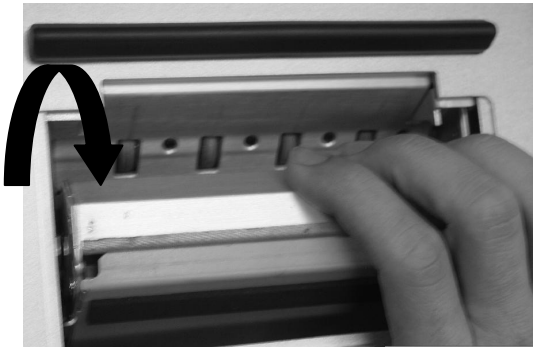
- After the bet slip is being processed, it will be dispensed via the bet slip scanner's outlet. Collect the dispensed bet slip and handle accordingly.

Removing a jammed bet slip

- Use the designated key to open the lottery ticket scanner door (see picture below) and lift the lottery ticket scanner door.



- Open the scanner by pulling the scanner module towards yourself (see picture below).



- Carefully pull out the jammed bet slip and paper dust to ensure that no pieces of paper remains at the visible part of the scanner.

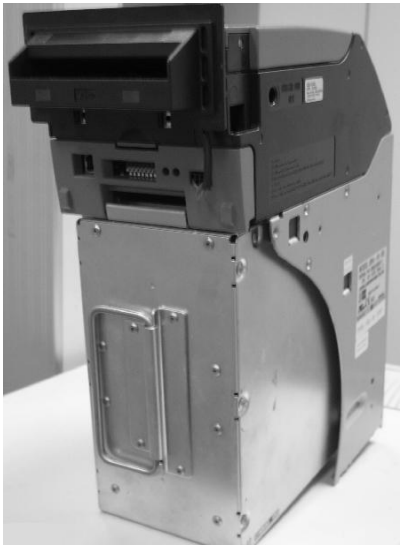
- Close the scanner unit by pushing the scanner module towards the device and ensure that it is engaged to the device.

- Align the scanner door back to the device and lock accordingly.

Technical Data

Optical resolution	200dpi vertical maximum 200dpi horizontal maximum
Document transport speed	20cm per second @200dpi vertical resolution 40cm per second @ 100dpi vertical resolution
Document width	80mm minimum 100mm maximum
Document length	80mm minimum 300mm maximum
Document thickness	0.07mm minimum 0.10mm maximum
Document input	Auto detect presence of document
Document output	One document at a time
Image recognition	Able to read OCR, OMR that complies with WN OCR, OMR specifications in conjunction with tailor-made image recognition application provided by WN
Read reject rate	Less than 0.3% per OCR character
Interface	USB

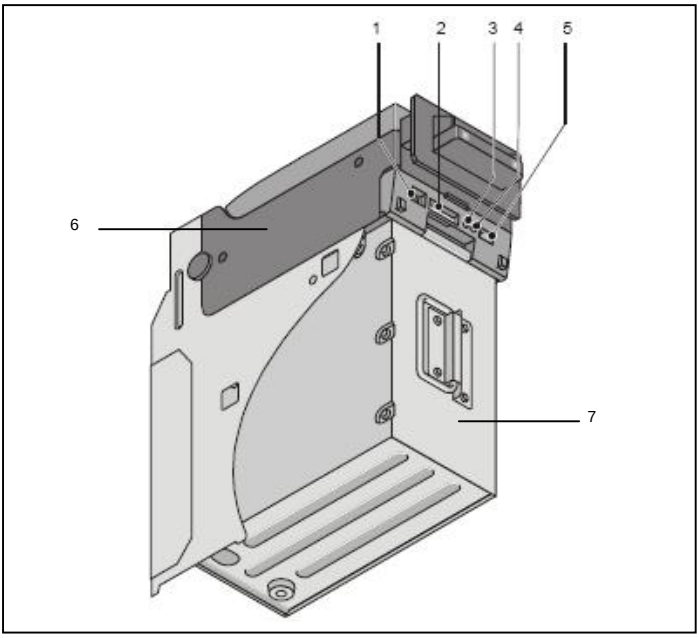
Bill acceptor



The kiosk is equipped with a bill acceptor (JCM UBA-10-SS) that is used to implement a payment function with banknotes. This bill acceptor is able to accept Ukraine currency.

The payments could be made by inserting the individual banknotes into the banknote input slot.

Function elements and controls



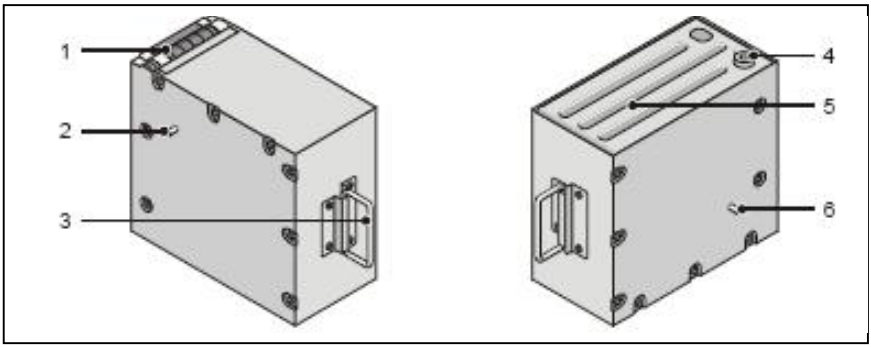
1	USB port	5	Face place connector
2	DIP switch	6	Validator unit
3	Red status LED	7	Cash box
4	Green status LED		

Technical Data – bill acceptor

Bill orientation	Lengthwise 4 ways
Bill width	62 to 85mm
Bill length	120mm to 170mm
Validation rate	98% or higher
Processing speed	2 seconds from bill insertion to vend signal out 5 seconds from bill insertion to completion of stacking
Bill escrow	1 bill
Currency supported	Ukrainian Hryvnians denominations as agreed with the customer at the time of production release
Locking mechanism	Key lock to restrict the retrieval of bill cassette from the bill acceptor Key lock is unique to other key locks used in the kiosk but common to all the bill acceptors
Interface	RS232C

Bill cassette

The bill cassette serves to store the inserted banknotes.



1	Note input	4	Box lock
2	Guide bolts	5	Box lid
3	Box handle	6	Guide bolts

Technical Data – bill cassette

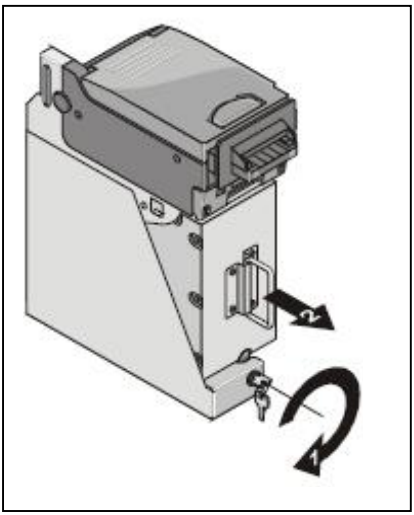
Model	JCM WBA-SS2 Cash Box 1000
Bill width	62 to 85mm
Bill length	120mm to 170mm
Bill storage capacity	1000 new bills Street grade bills require more space hence less bills may be stored.
Locking mechanism	Key lock to restrict the retrieval of bill cassette from the bill cassette Key lock is unique to other key locks used in the kiosk but common to all the bill cassettes

Inserting banknotes into bill acceptor

- Insert the individual banknotes into the banknote input slot.
- The banknote is centered automatically, tested in the validator unit. If it tests positive, the banknote will be sorted and conveyed by the transport unit to a cash box, where they are stored.
- If the test is not positive, the banknote will be returned to the output tray.

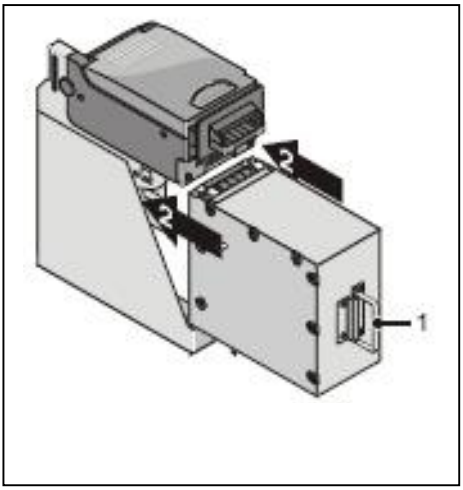
Removing / inserting the cash box

- Open the device and pull out the middle front panel (see chapter “Basic Operation”, section “Opening / closing the device”).



Removing cash box
Insert the key in the lock (1) and turn it as far as possible in the direction of the arrow (1).

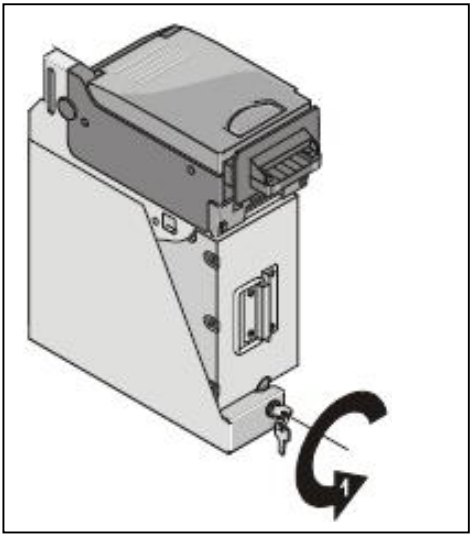
Pull the box out of the device by the handle (2) in the direction shown by the arrow. Support the box with one hand.



Inserting cash box
Holding the box by the handle (1) push it in the banknote validator in the direction shown by the arrow (2).

Make sure that the guide bolts (at the left and right of the box) are positioned correctly in the respective mountings in the housing.

Push the box in as far as possible.



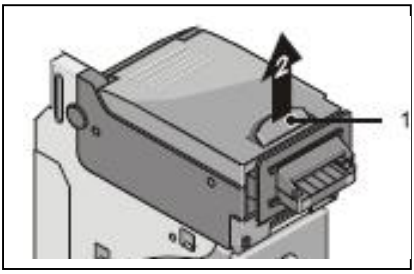
Insert the key in the lock (1) and turn it as far as possible in the direction of the arrow (1) and pull out the key from the lock.

- Push in the middle front panel and close the device (see chapter “Basic Operation”, section “Opening / closing the device”).

Clearing a banknote jam

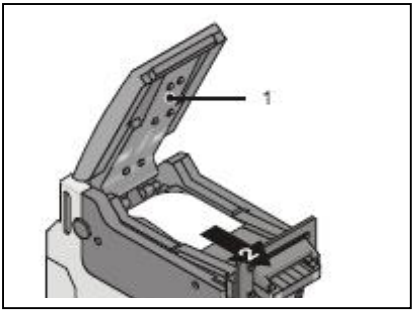
- Switch the device off.
- Open the device and pull out the middle front panel (see chapter “Basic Operation”, section “Opening / closing the device”).

Banknote jam in the validator unit



Pull release lever (1) of the validator unit upwards and raise the upper part of the validator unit (2) to the rear.

If the validator unit cannot be opened, notify Service.

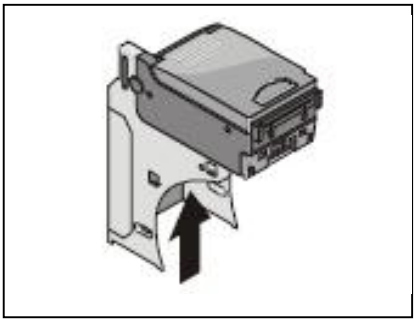


Hold the upper part of the validator unit (1) in the position shown here and remove any jammed banknotes in the direction of the arrow (2).

- Lower the validator unit until it locks into place.

Banknote jam at the cash box crossover point

- Remove the cash box from the banknote validator (see section "Removing / inserting the cash box").

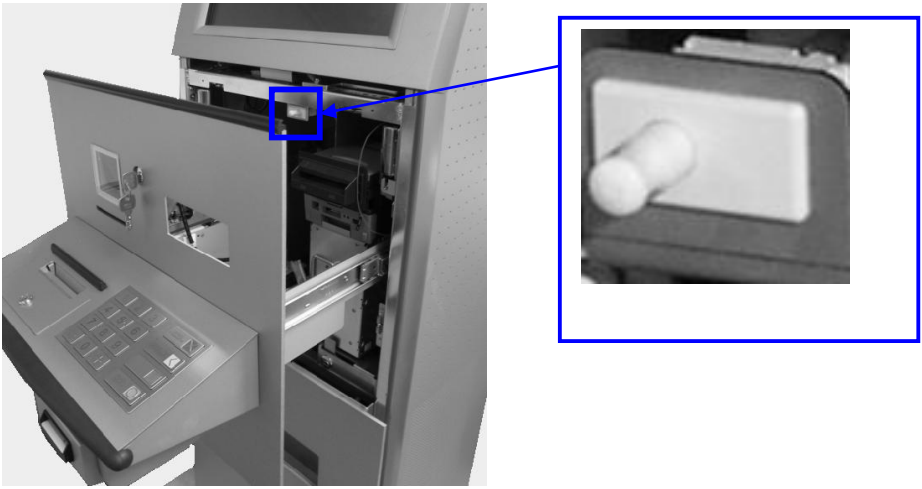


Check if there is any banknote in the crossover area to the cash box (see arrow).

Remove any jammed banknote downwards from the banknote validator.

- Re-insert the cash box (see section "Removing / inserting the cash box").

Door sensor



The door sensor is located at the chassis frame underneath the display (see picture above).

If the middle front panel is pulled out, it will send a signal to the device for further reaction.

Appendix

Technical Data

Installation specifications

CERTO 417/A01 Kiosk System	Without Base plate
Dimensions:	
Height:	1542 mm
Depth:	625 mm
Width:	472 mm
Weight of device:	Approx. 150 kg

Environmental Conditions

OPERATING	Indoor air conditioned environment +15 to +35°C, optimum operating range Relative Humidity: 20 to 75% RH, non-condensing
STORAGE	Temperature: +5°C to +40°C Relative Humidity: 5 to 85% RH, non-condensing
TRANSPORT	Temperature: -25°C to +60°C Relative Humidity: 15 to 95% RH, non-condensing
POWER SUPPLY	200–240V AC @ 50/60Hz
POWER CONSUMPTION	300VA maximum
POWER CORD	Country specific plug to IEC plug

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