USER MANUAL

K3

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THE IMAGES USED IN THIS MAN-UAL ARE USED AS AN ILLUSTRA-TIVE EXAMPLES. THEY COULDN'T REPRODUCE THE DESCRIBED MODEL FAITHFULLY.

UNLESS OTHERWISE SPECIFIED, THE INFORMATION GIVEN IN THIS MANUAL

ARE REFERRED TO ALL MODELS IN PRODUCTION AT THE ISSUE DATE OF THIS DOCUMENT.

GENERAL INSTRUCTIONS

CUSTOM S.p.A. declines all responsibility for accidents or damage to persons or property occurring as a result of tampering, structural or functional modifications, unsuitable or incorrect installations, environments not in keeping with the equipment's protection degree or with the required temperature and humidity conditions, failure to carry out maintenance and periodical inspections and poor repair work.

GENERAL SAFETY INFORMATION

Your attention is drawn to the following actions that could compromise the characteristics of the product:

- · Read and retain the instructions which follow.
- Follow all indications and instructions given on the device.
- Make sure that the surface on which the device rests is stable. If it is not, the device could fall, seriously damaging it.
- Make sure that the device rests on a hard (nonpadded) surface and that there is sufficient ventilation
- Do not fix indissolubly the device or its accessories such as power supplies unless specifically provided in this manual.
- When positioning the device, make sure cables do not get damaged.
- [Only OEM equipment] The equipment must be installed in a kiosk or system that provides mechanical, electrical and fire protection.
- The mains power supply must comply with the rules in force in the Country where you intend to install the equipment.
- Make sure that there is an easily-accessible outlet with a capacity of no less than 10A closely to where the device is to be installed.
- Make sure the power cable provided with the appliance, or that you intend to use is suitable with the wall socket available in the system.
- Make sure the electrical system that supplies power to the device is equipped with a ground wire and is protected by a differential switch.
- Before any type of work is done on the machine, disconnect the power supply.
- Use the type of electrical power supply indicated on the device label.
- These devices are intended to be powered by a separately certified power module having an SELV, non-energy hazardous output. (IEC60950-1 second edition).
- [Only POS equipment] The energy to the equipment must be provided by power supply approved by CUSTOM S.p.A.
- Take care the operating temperature range of equipment and its ancillary components.
- · Do not block the ventilation openings.
- Do not insert objects inside the device as this could cause short-circuiting or damage components that could jeopardize printer functioning.
- Do not carry out repairs on the device yourself, except for the normal maintenance operations given in the user manual.
- The equipment must be accessible on these components only to trained, authorized personnel
- Periodically perform scheduled maintenance on the device to avoid dirt build-up that could compromise the correct, safe operation of the unit.
- Do not touch the head heating line with bare hands or metal objects. Do not perform any operation inside the printer immediately after printing because the head and motor tend to become very hot.
- Use consumables approved by CUSTOM S.p.A.



THE CE MARK AFFIXED TO THE PRODUCT CERTIFY THAT THE PRODUCT SATISFIES THE BASIC SAFETY REQUIREMENTS.

The device is in conformity with the essential Electromagnetic Compatibility and Electric Safety requirements laid down in Directives 2006/95/CE and 2004/108/CE inasmuch as it was designed in conformity with the provisions laid down in the following Standards:

- EN 55022 Class B (Limits and methods of measurements of radio disturbance characteristics of Information Technology Equipment)
- EN 55024 (Information Technology Equipment – Immunity characteristics – Limits and methods of measurement)
- EN 60950-1 (Safety of information equipment including electrical business equipment)

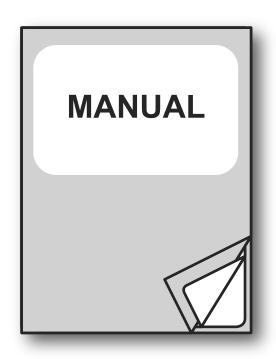
The device is in conformity with the essential requirements laid down in Directives 1999/05/CE about devices equipped with intentional radiators. The Declaration of Conformity and other available certifications can be request to support@custom.it please providing the correct part number shown on product label or in the invoice.



The crossed-out rubbish bin logo means that used electrical and electronic products shall NOT be mixed with unsorted municipal waste. For more detailed information about recycling of this product, refer to the instructions of your country for the disposal of these products.

- Do not dispose of this equipment as miscellaneous solid municipal waste, but arrange to have it collected separately.
- The re-use or correct recycling of the electronic and electrical equipment (EEE) is important in order to protect the environment and the wellbeing of humans.
- In accordance with European Directive WEEE 2002/96/EC, special collection points are available to which to deliver waste electrical and electronic equipment and the equipment can also be handed over to a distributor at the moment of purchasing a new equivalent type.
- The public administration and producers of electrical and electronic equipment are involved in facilitating the processes of the re-use and recovery of waste electrical and electronic equipment through the organisation of collection activities and the use of appropriate planning arrangements.
- Unauthorised disposal of waste electrical and electronic equipment is punishable by law with the appropriate penalties.





For details on the commands, refer to the manual with code **77200000002700**

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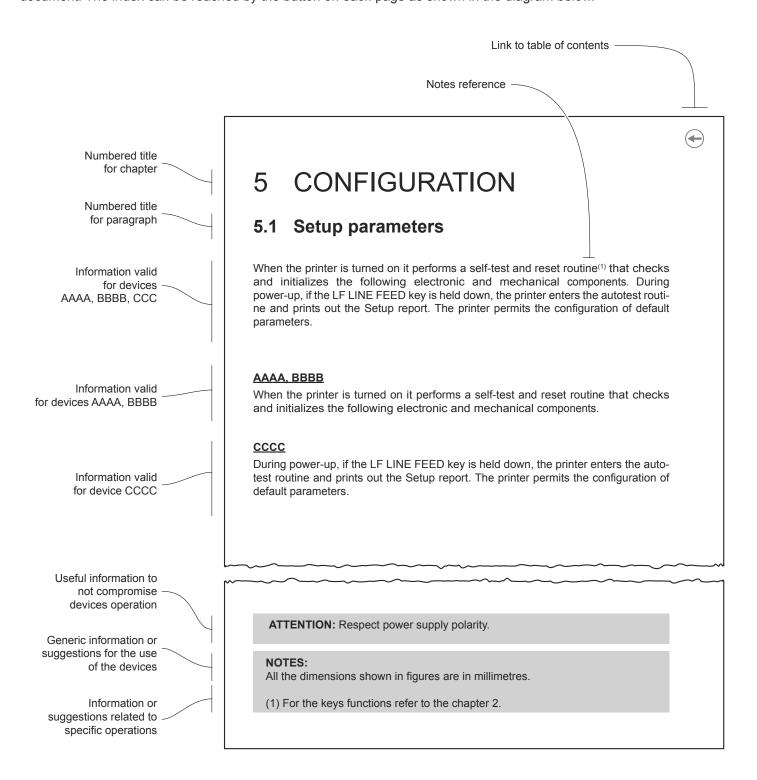
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1 INTRODUCTION

This document is divided into sections and chapters. Each chapter can be reached by the index at the beginning of this document. The index can be reached by the button on each page as shown in the diagram below.











2 IDENTIFICATION OF THE MODELS

NOMENCLATURA	DESCRIZIONE
K3 STD	K3 base configuration
K3 STD DSP	K3 base configuration with display
K3 STD Wi-Fi	K3 base configuration with Wi-Fi board
K3 STD BT	K3 base configuration with Bluetooth board







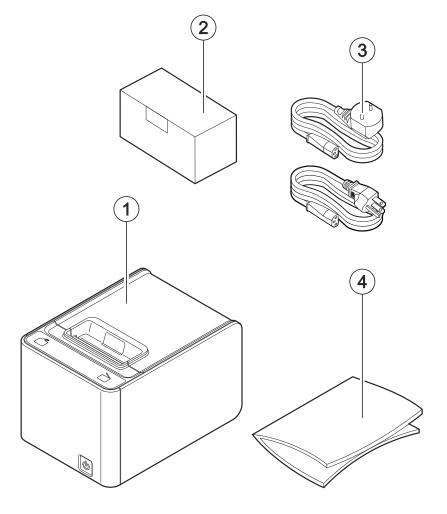
3 DESCRIPTION

3.1 Box contents

Remove all the box contents (see following figures) being careful not to damage the packing material so that it may be re-used if the device is to be transported in the future.

Make sure that all the components illustrated below are present and that there are no signs of damage. If there are, contact Customer Service.

- 1. Device
- 2. AC adapter
- Standard AC power supply cable or US market AC power supply cable
- 4. Short guide

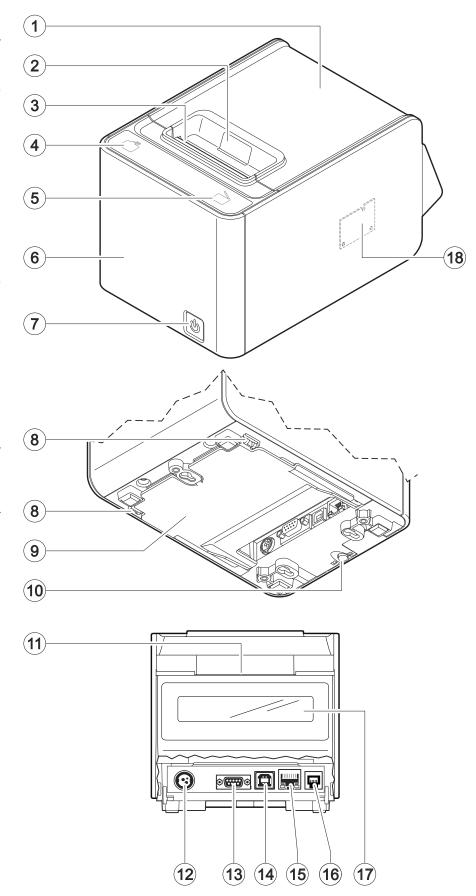




3.2 Device components

External view

- 1. Paper compartment cover
- Service button for cover opening
- 3. Paper out with serrated blade
- 4. FEED key
- 5. OPEN key
- 6. Front cover
- 7. ON/OFF key
- Opening levers of cables compartment
- 9. Cables compartment cover
- 10. Button for front cover release
- 11. Entrance for fanfold
- 12. Power supply port
- 13. RS232 serial interface port
- 14. USB interface port
- 15. Ethernet interface port
- 16. Cash drawer port
- Customer display (only for K3 STD DSP)
- Wi-Fi or Bluetooth board (only for K3 STD Wi-Fi or K3 STD BT)

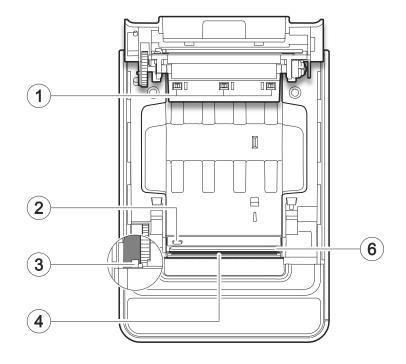


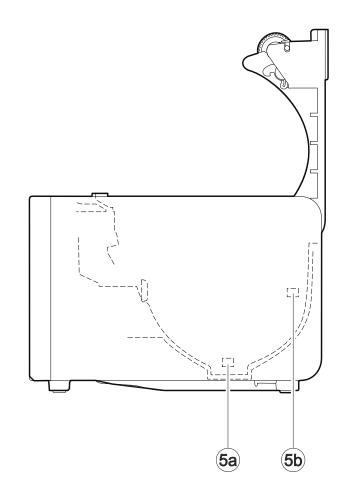




Internal view

- System with three sensors for detecting black mark or hole on the non-thermal side of the paper (optional)
- Sensor for paper and black mark detection
- 3. Sensor for cover open
- Mobile sensor for detecting black mark or hole on the thermal side of the paper (optional)
- Sensor for detecting low paper, adjustable in 2 positions (a = device in the normal position, b = device mounted on the wall)
- 6. Temperature sensor for the printhead (integrated in the printhead and not visible to the user)





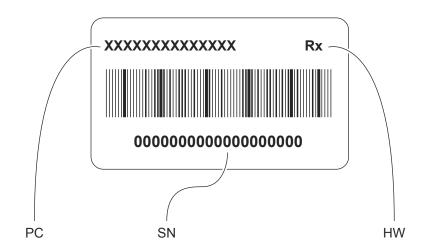


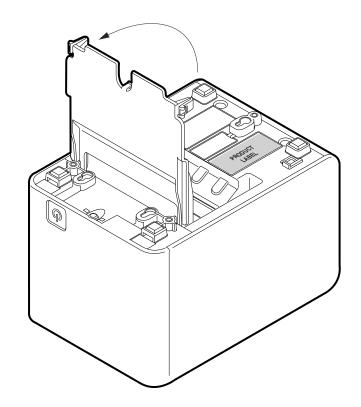


3.3 Product label

PC = Product code (14 digits)

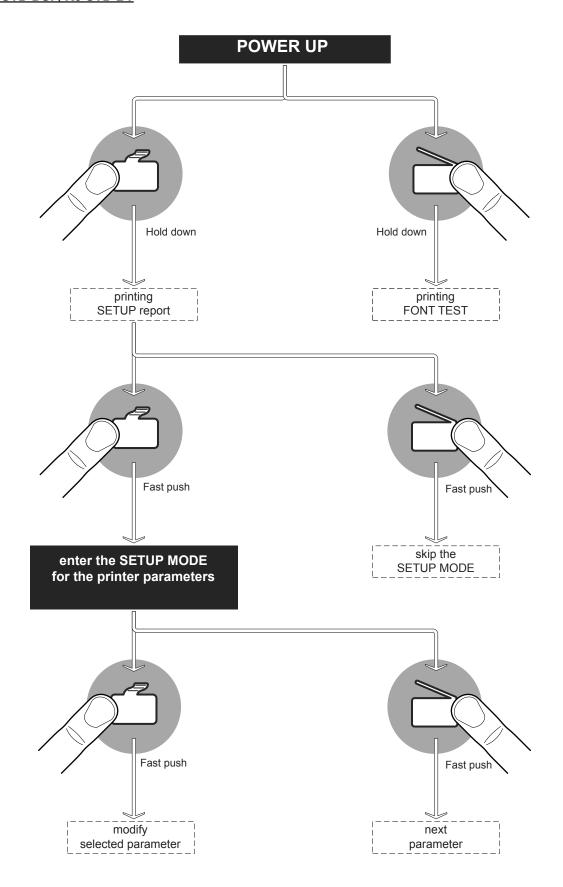
SN = Serial number HW = Hardware release





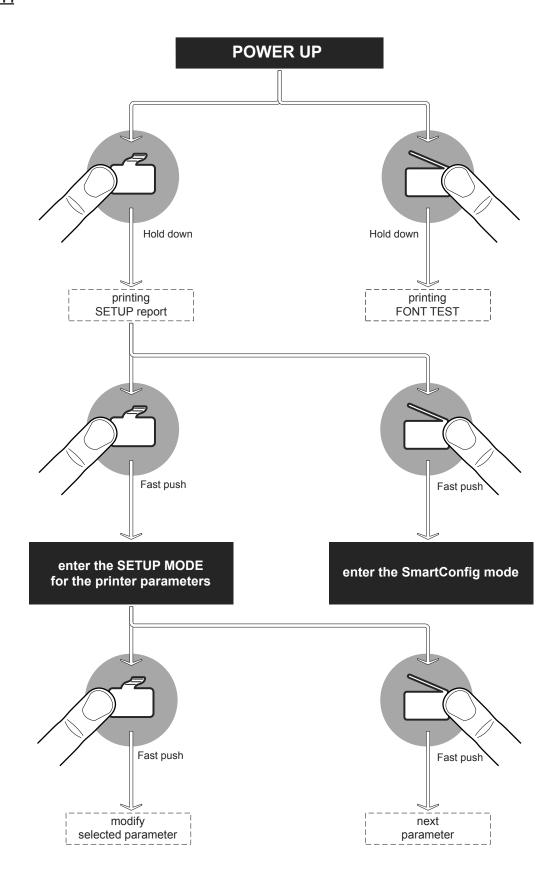
3.4 Key functions: power up

K3 STD, K3 STD DSP, K3 STD BT



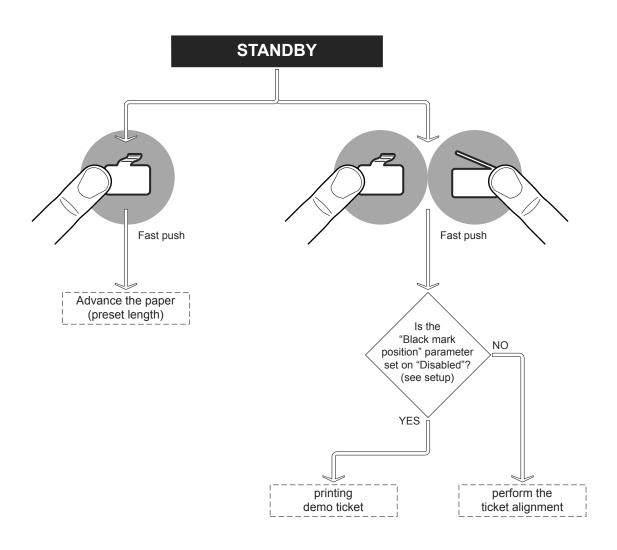


K3 STD Wi-Fi





3.5 Key functions: standby







3.6 Status messages

The Status LED indicates hardware status of device. Given in the table below are the various led signals and the corresponding device status.

	STATUS LED		DESCRIPTION
-		OFF	DEVICE OFF
BLUE NOTIFICATION STATUS		ON	DEVICE ON: NO ERROR
		x 1	RECEIVE DATA
BLUE		x 2	RECEPTION ERRORS (PARITY, FRAME ERROR, OVERRUN ERROR)
COMMUNICATION STATUS		x 3	COMMAND NOT RECOGNIZED
		x 4	COMMAND RECEPTION TIME OUT
		x 5	LOW PAPER
		x 2	PRINTHEAD OVERHEATED
PURPLE		x 3	PAPER END
RECOVERABLE ERROR		x 5	POWER SUPPLY VOLTAGE INCORRECT
		x 6	COVER OPEN
		x 3	RAM ERROR
RED UNRECOVERABLE ERROR		x 4	EXTERNAL FLASH ERROR
		x 5	CUTTER ERROR
WHITE	CUSTOM®	ON	ACTIVE CONNECTION
WHITE	CUSTOM®	x 1	BLUETOOTH INITIALIZATION
WHITE / BLUE	Custem®		Wi-Fi INITIALIZATION





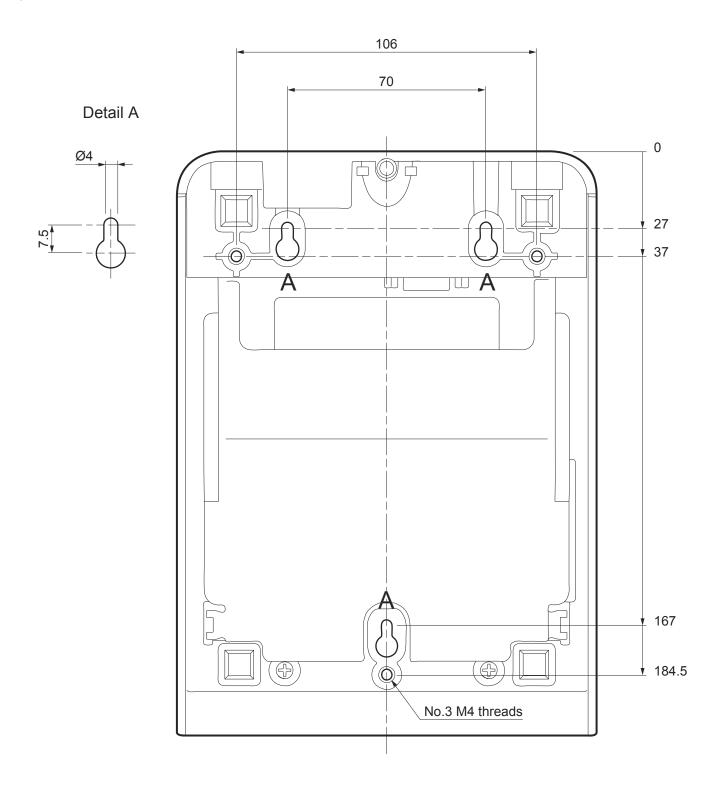
4 INSTALLATION

4.1 Wall mounting

The device is equipped with a double vertical mounting capability of the machine:

- Setup 1: Three threaded holes for mounting with M4 screws
- Setup 2: Three slots for mounting on pins.

Both arrangements are placed at the bottom of the machine (see figure below). The dimensions shown in the image are expressed in millimetres.







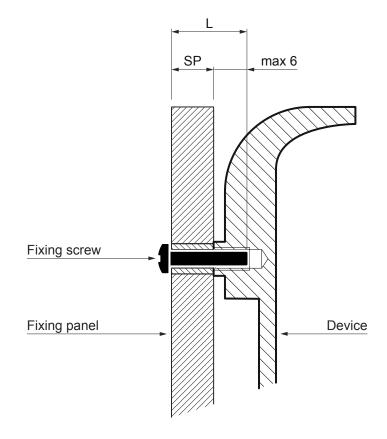
Guidelines for wall mounting with M4 screws

Drill holes in the fixing panel using the measurements shown on the previous page. Pay attention to the length of the screws used.

The screw length (L) will be calculated according to the thickness of the panel (SP) on which the device is fixed, as follows

 $L \le 6 \text{ mm} + \text{SP}$

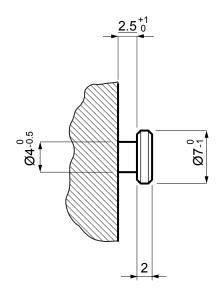
For example, if panel thickness is 10 mm (SP = 10 mm), the max screw length will be 16 mm.



Guidelines for wall mounting on pins

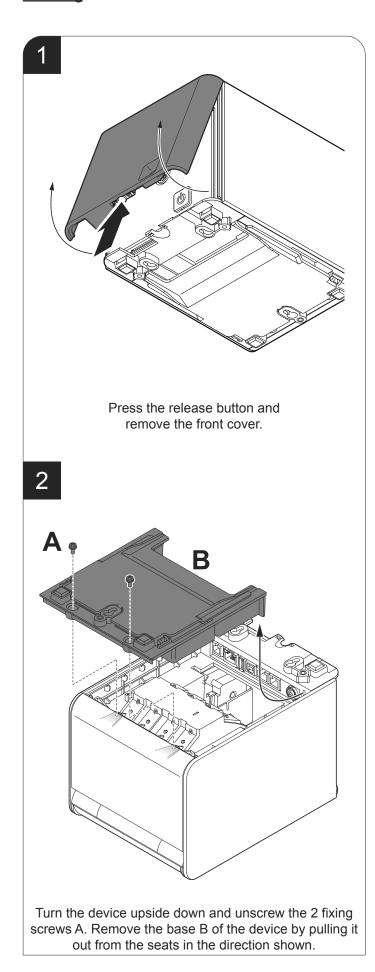
Attach three pins to the wall using the measurements shown on the previous page.

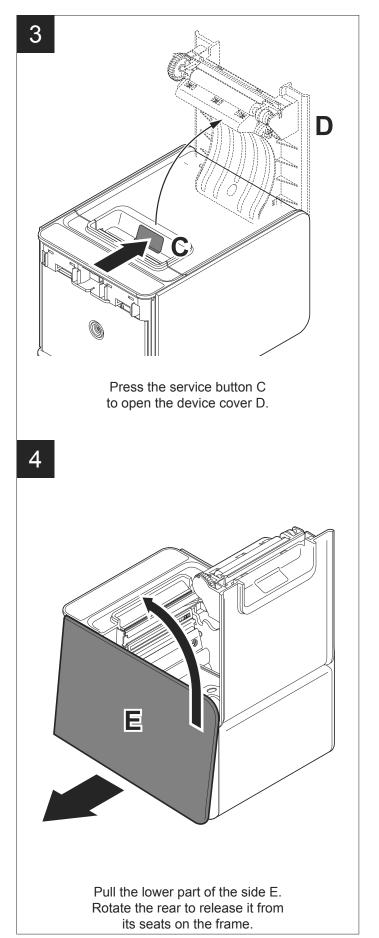
The dimensions of the fixing pins are provided below. The dimensions shown in the image are in millimetres.



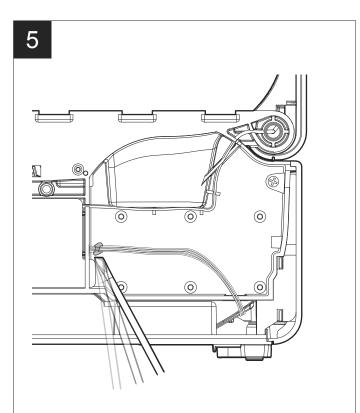






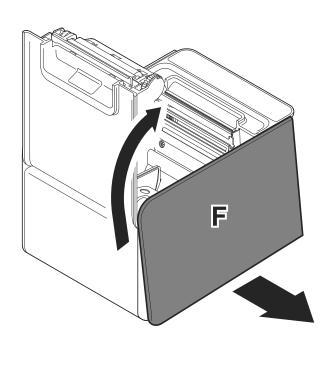




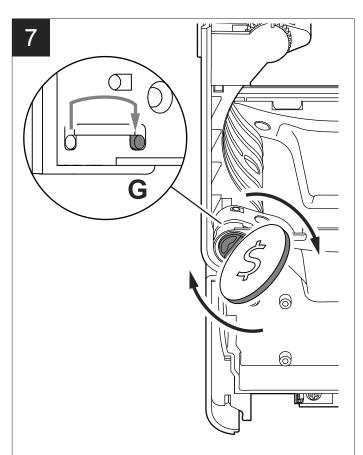


Remove the glue from the low paper sensor cable with a screwdriver, being careful not to damage the cable.

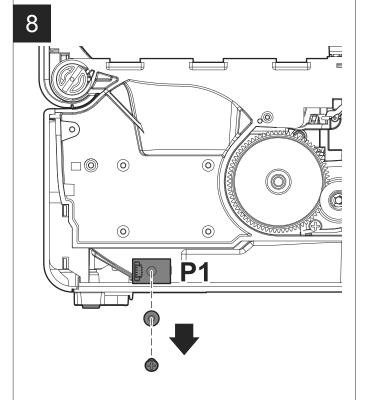
6



Pull the lower part of the side F. Rotate the rear to release it from its seats on the frame.

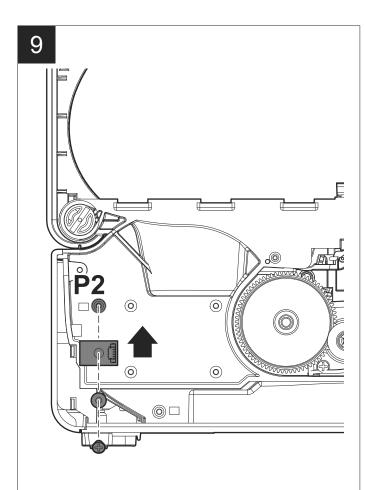


Rotate the selector that adjusts the load on the return spring for the cover in position G by using a coin.

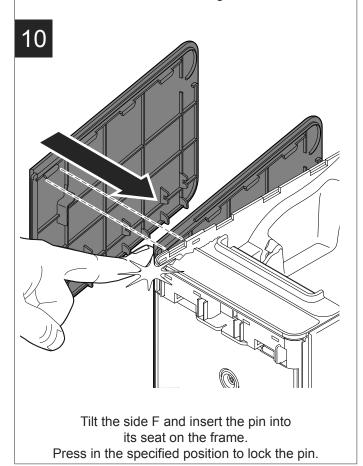


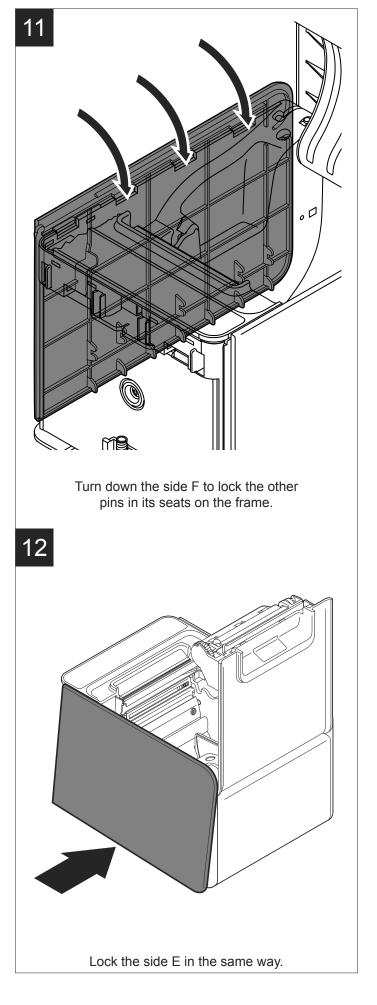
Unscrew the fixing screw and remove the low paper sensor from the mounting position P1.





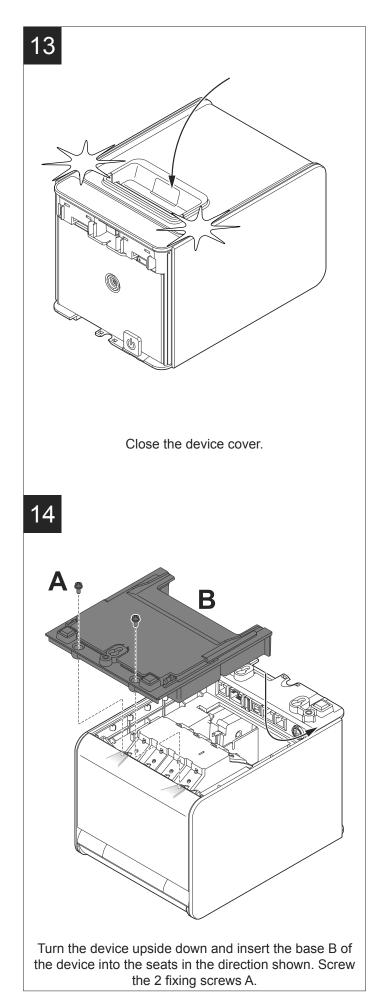
Place the low paper sensor in the mounting position P2 and screw the fixing screw.

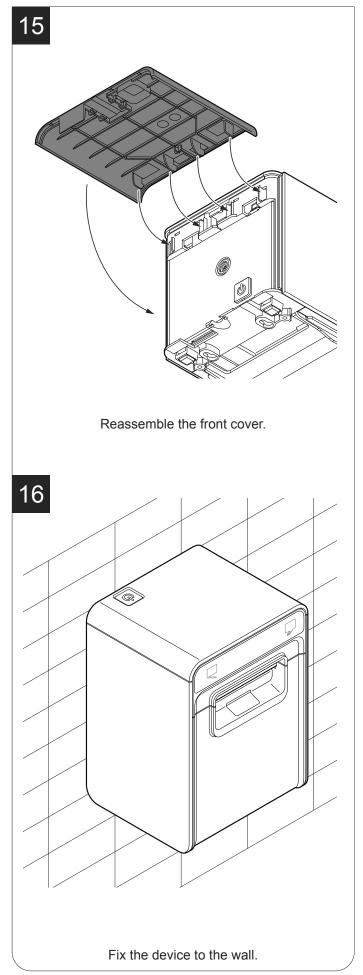












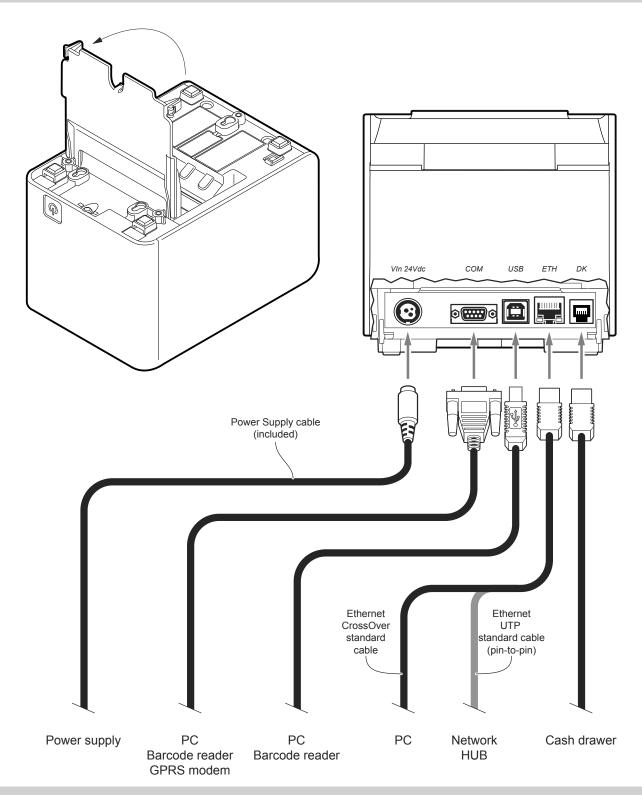


4.2 Connections

The following figure shows the possible connections for the device.

ATTENTION:

In some using conditions, we recommend the installation of a ferrite core on the power supply cable.



NOTE: When the RS232 and USB communication cables are connected to the printer at the same time, communication takes place via the USB port.



+

4.3 Pinout





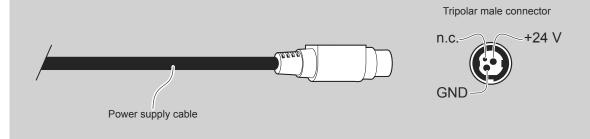
ATTENTION:

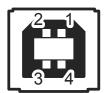
Respect power supply polarity.

NOTE:

Power supply cable

The following figure shows the connector pinout of the power supply cable for the device:





USB INTERFACE

Female USB type B connector

	1	USB0-VBUS	(in)
	2	D0 -	(in/out)
14	3	D0 +	(in/out)
J4	4	GND	
	SH1	SHIELD	
	SH2	SHIELD	





RS232 SERIAL INTERFACE

Female DB9 connector

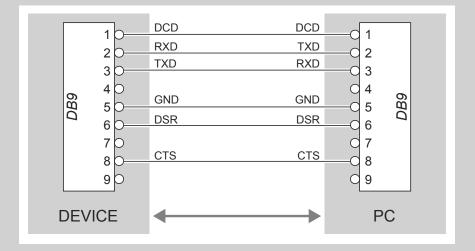
	1	DTR	
	2	тх	During transmission, takes the values -VRS232 and + VRS232 depending on data
	3	RX	During reception, takes the values -VRS232 and +VRS232 depending on data
	4	DSR	
J3	5	GND	
	6	DTR	When +VRS232, device is power on
	7	CTS	
	8	RTS	When +VRS232, device is ready to receive data
	9	n.c.	

NOTES:

Given the presence of the RS232 standard, logic value "0" corresponds to the voltage value +VRS232 (voltage value between +3Vdc and +15Vdc) and logic value "1" corresponds to the voltage value -VRS232 (voltage value between -3Vdc and -15Vdc.

DEVICE > PC connection

The following picture shows an example of connection between the device and a personal computer using a 9 pin RS232 serial connector:



When use a serial cable, we recommend the installation of a ferrite core on the power supply cable.







ETHERNET INTERFACE

Female RJ45 connector

	,	
	1	TPOUT +
	2	TPOUT -
	3	TPIN +
	4	GND
	5	GND
	6	TPIN -
15	7	n.c
J5	8	n.c
	9	+3.3 V
	10	LED-LAN
	11	+3.3 V
	12	LED-LNK
	13	Shield
	14	Shield
	4	

NOTES:

The functionality of two LED are specified in the following table:

LED	FUNCTION
LED-LNK	Link (yellow color): the LED lights up when a connection is active
LED-LAN	Rx/Tx: (green color): the LED lights up when occurs a data reception or transmission

- To directly connect the device to a Personal Computer, use a Cross-Over Ethernet cable.
 To connect the device to a hub device, use an UTP Ethernet cable (Pin to Pin).

The pinout shown in table represents the input signals to component J5 before the isolation voltage transformer (through-hole pin).







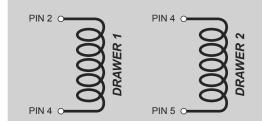
DRAWER CONNECTOR

Female RJ12 connector

	1	GND		
	2	SOL1	(out)	Drawer 1 command (open collector)
10	3	CASS	(in)	Drawer status
J2	4	+24 Vdc		
	5	SOI2	(out)	Drawer 2 command (open collector)
	6	GND		

ATTENTION:

This device can manage drawers of different power supplies (6 V, 12 V, 18 V, 24 V). To prevent a current overload, check and set correctly the kind of cash drawer.



NOTE:

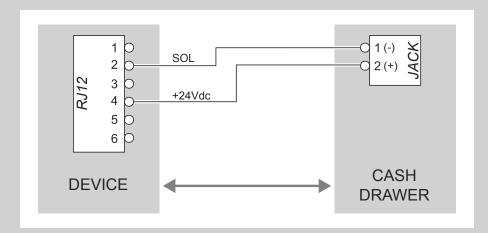
The solenoid of the drawer 1 must be connected from Pin 2 to Pin 4 on the drawer connector

The solenoid of the drawer 2 must be connected from Pin 4 to Pin 5 on the drawer connector

NOTE:

K3 > CASH DRAWER (optional) connection

Use an optional adapter cable RJ12-Jack to connect the device to a cash drawer. Refer to the picture below for the connector pin signals







4.4 Driver and SDK

The drivers are available for the following operating system:

OPERATING SYSTEM	DESCRIPTION	INSTALLATION PROCEDURE
Windows	Driver for Windows XP	From the START menu, press Run and type-in the path where the SW was saved on your PC, then click OK. Follow the instructions that appear on the screen to install the driver.
	Driver for Windows VISTA (32/64 bit)	
	Driver for Windows 7 (32/64 bit)	
	Driver for Windows 8 (32/64 bit)	
	Driver for Windows 8.1 (32/64 bit)	
	Driver for Windows 10 (32/64 bit)	
	Driver for OPOS	
Linux	(32/64 bit)	Follow the instruction get back on the "Readme.txt" file. You can find it in the software package downloaded in advance.
Windows / Linux	Driver for JavaPOS	Extract the zipped folder to the destination path desired.
Android	Library for CustomAndroidAPI	Extract the zipped folder to the destination path desired. Follow the instructions present in the software package that you downloaded on how to install and use the library.
iOS	Library for CustomiOSApi	Extract the zipped folder to the destination path desired. Follow the instructions present in the software package that you downloaded on how to install and use the library.
Windows Phone 8	Library for CeWP8Api	Extract the zipped folder to the destination path desired. Follow the instructions present in the software package that you downloaded on how to install and use the library.

NOTA:

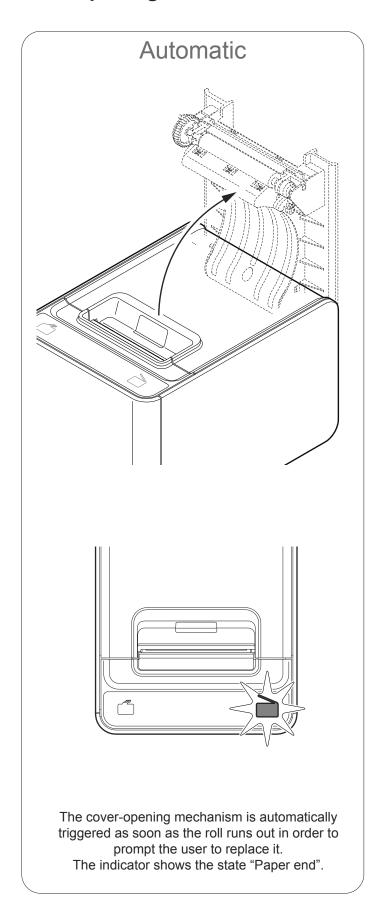
All drivers can be found in the download section of the web site www.custom.biz.

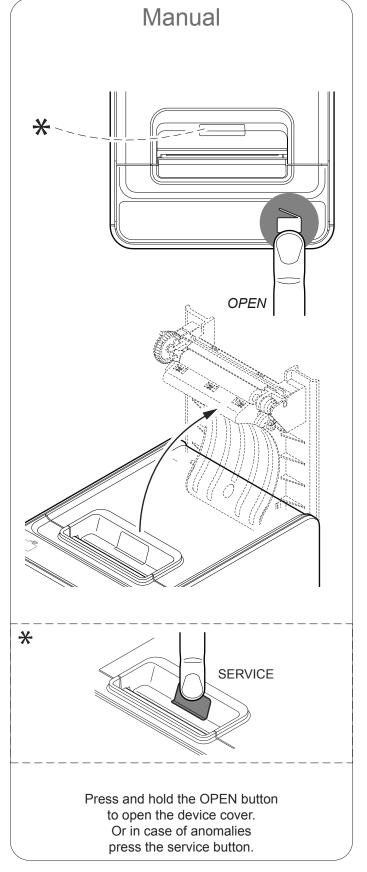




5 OPERATION

5.1 Opening the cover







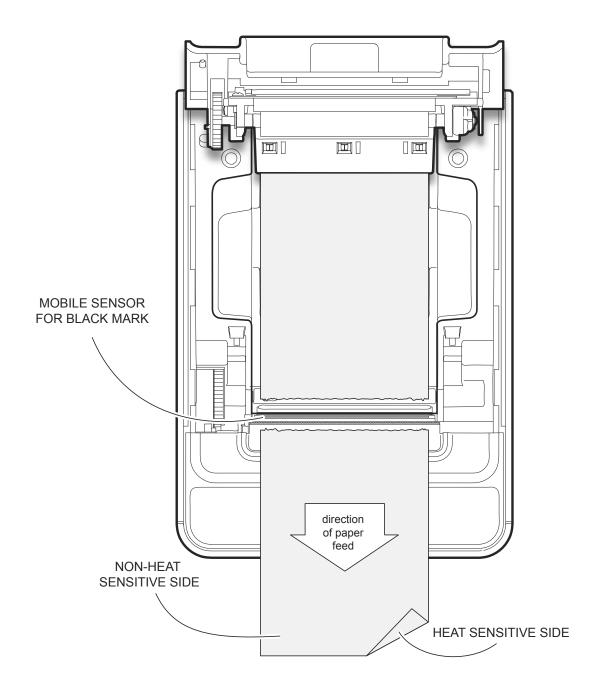


5.2 Adjusting the alignment sensor (optional)

The device can be optionally equipped with a mobile sensor for the detection of the alignment black mark placed on the thermal side of paper as shown below.

The device user will need to manually move this mobile sensor according to the position of the black mark on the paper (see next paragraphs).

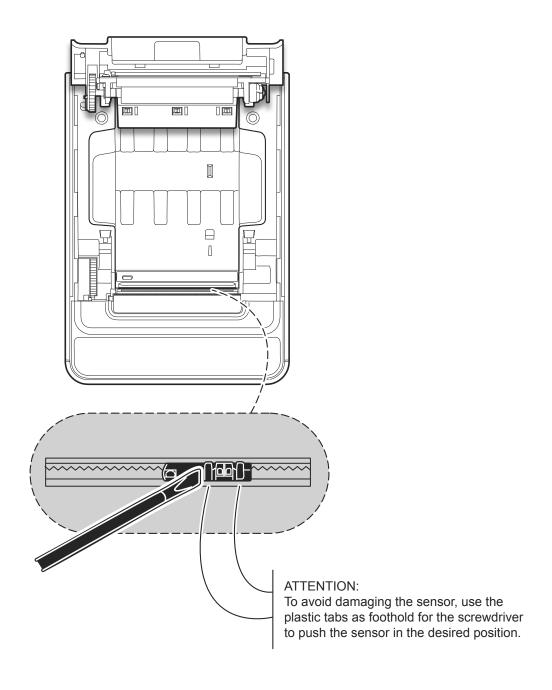
To use this sensor for black mark detection, you must set the "Black mark position" setup parameter on the "Bottom" value (see chapter 5).







To adjust the mobile sensor position according to the black mark position on paper, open the device cover (see paragraph 4.1) and move the sensor to the desired position using a small screwdriver or a pointed object.

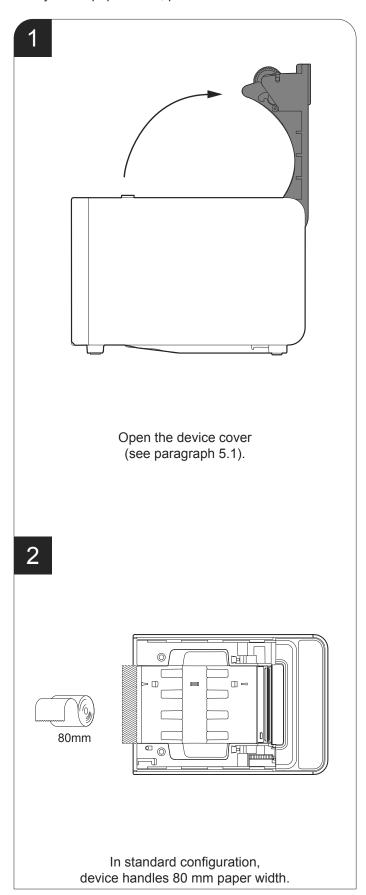


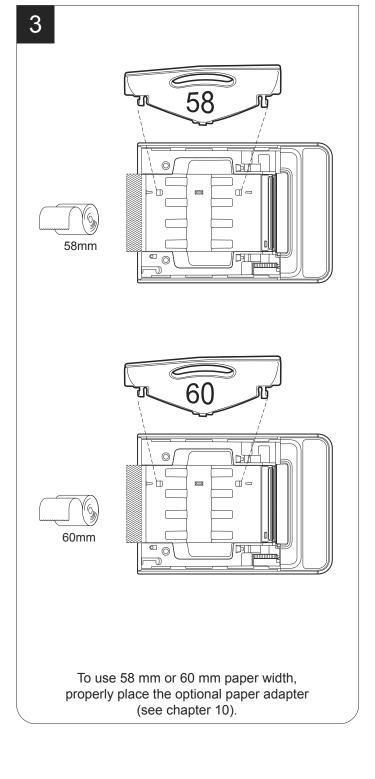




5.3 Adjusting the paper width (optional)

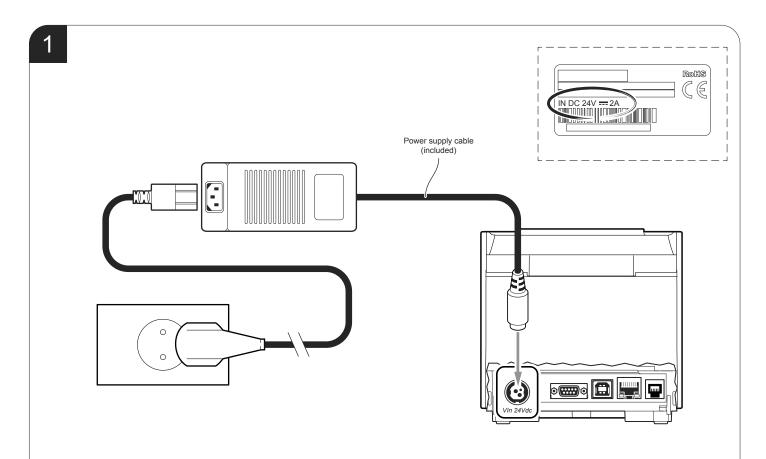
The device can be optionally equipped with an adapter for the regulation of paper width to use. To adjust the paper width, proceed as follows.







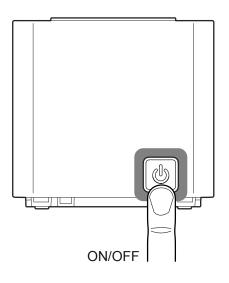
5.4 Switch the device ON/OFF

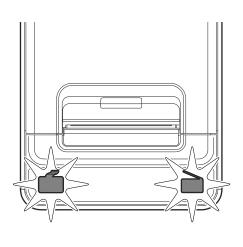


Connect the power adapter (supplied) to the device and the mains outlet.

Use the type of electrical power supply indicated on the label.

2





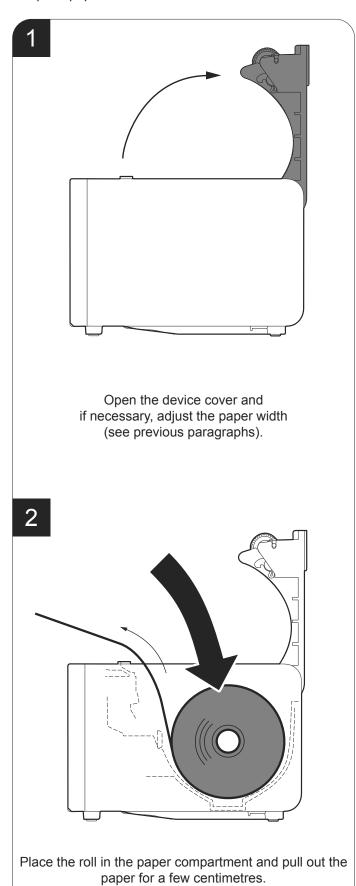
Switch device On pressing key ON/OFF, The indicator lights are switched on and the device is ready. Switch device Off pressing key ON/OFF.

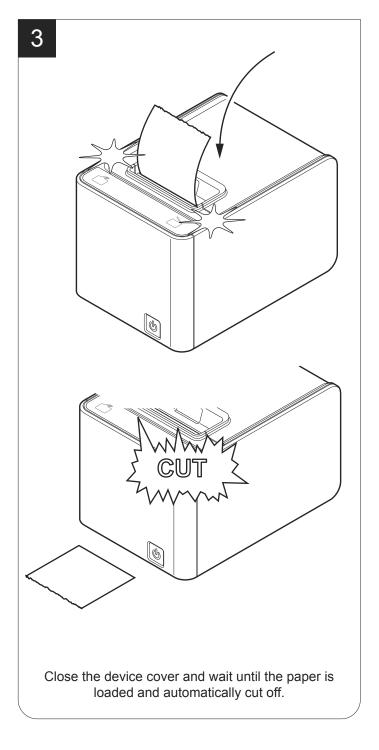




5.5 Loading the paper roll

To change the paper proceed as follows. At every change of paper, check inside the device to locate and remove any scraps of paper.



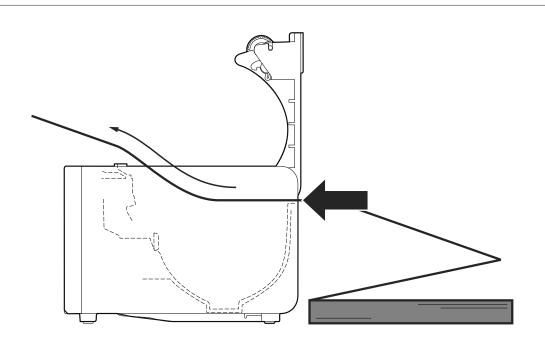




5.6 Loading the Fan-fold

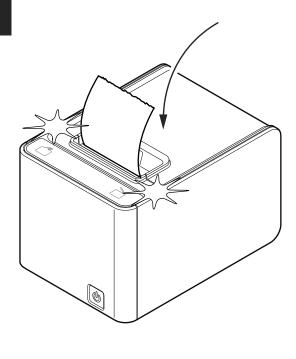
To load the Fan-fold proceed as follows. At every change of paper, check inside the device to locate and remove any scraps of paper.

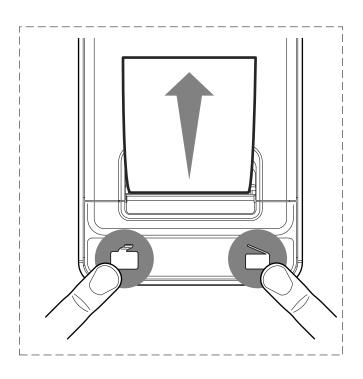
1



Open the device cover (see paragraph 5.1) and insert the Fan-fold through the input slot, located on the back of the device. Pull out the paper for a few centimetres.

2





Close the device cover.

If the parameter "Black mark alignment" is enabled proceed with alignment by pressing both keys.



5.7 Pairing with Bluetooth devices

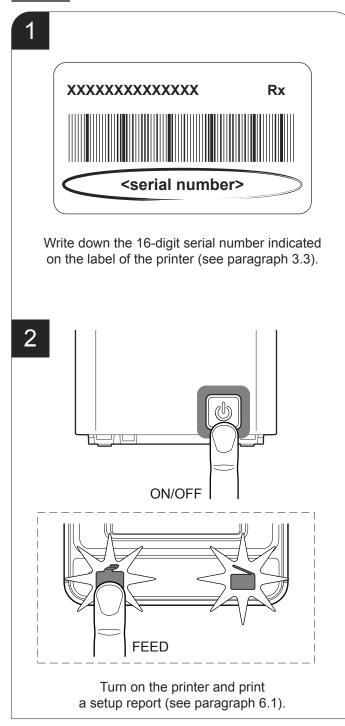
K3 STD BT

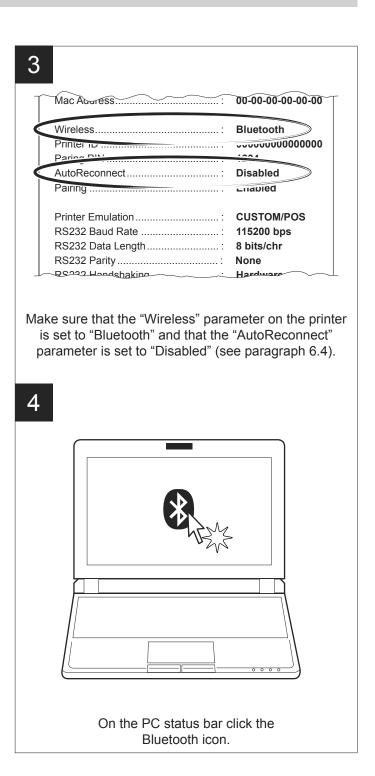
The Bluetooth connectivity of the printer allows the wireless printing from a PC (e.g. using a text editor or third-part software) or from a mobile device Android, iOS and Windows Phone after installing the application "CustomPrint", downloadable from the download section of www.custom.biz site.

To perform the wireless printing with a device equipped with Bluetooth connectivity is needed to pair with device.

NOTE: The windows used in this paragraph may be different from the screens that appear on the device used for printing and may vary depending on the version of the operating system.

Windows



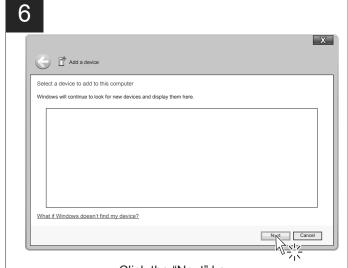






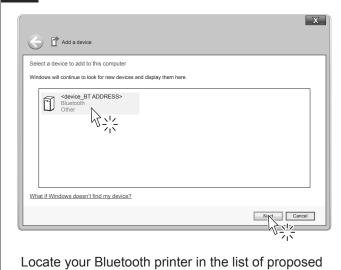


In the window that opens, click "Add a device".



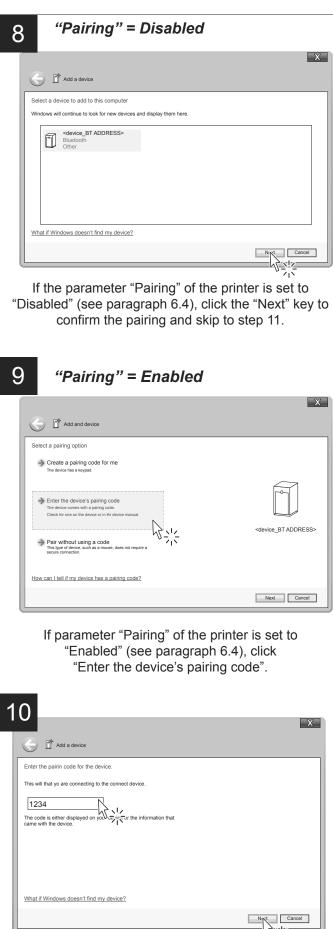
Click the "Next" key.





devices (<device_serial number>)

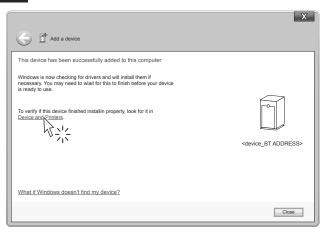
and select it with a click.



Enter the code (1234) and

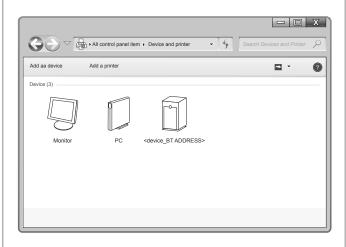
click the "Next" key.

11



In the confirmation message that appears, click "Device and Printers".

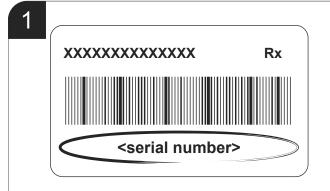
12



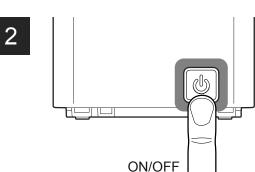
Check that your device appears in the list of paired devices.

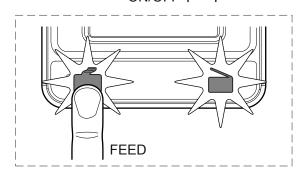
NOTE: Once that has occured the pairing between the host and printer, this remains active even in the event of switching of, interruption of communication, etc.

Mac OS



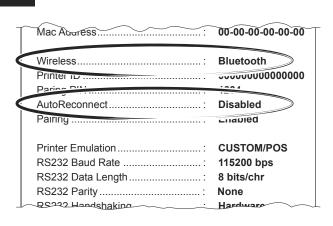
Write down the 16-digit serial number indicated on the label of the printer (see paragraph 3.3).





Turn on the printer and print a setup report (see paragraph 6.1).

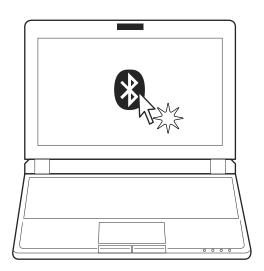
3



Make sure that the "Wireless" parameter on the printer is set to "Bluetooth" and that the "AutoReconnect" parameter is set to "Disabled" (see paragraph 6.4).

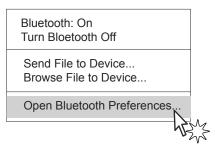


4



On the PC status bar click the Bluetooth icon.

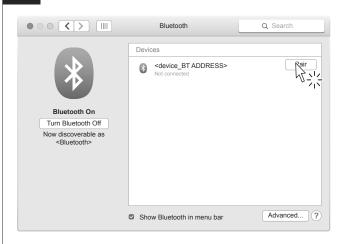
5



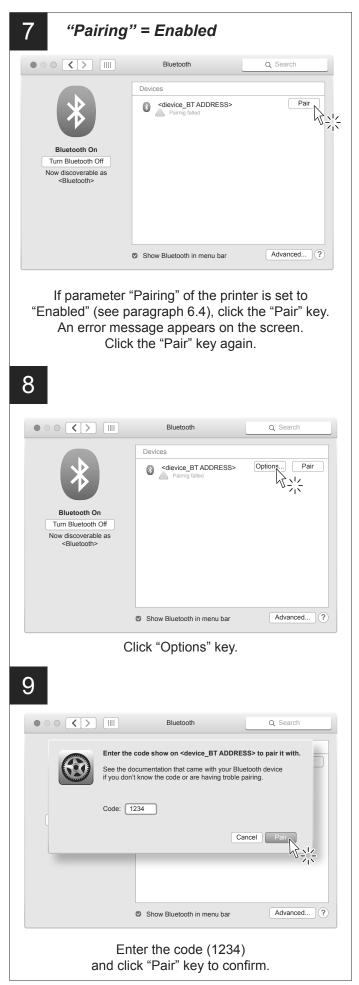
In the dropdown menu click "Open Bluetooth Preferences".

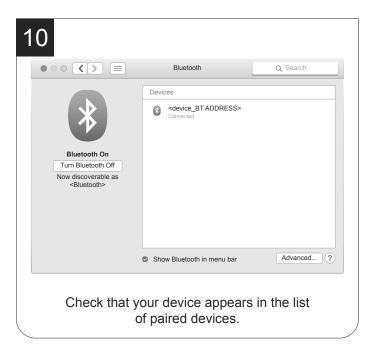
6

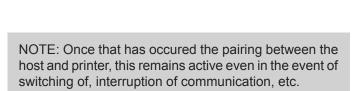
"Pairing" = Disabled



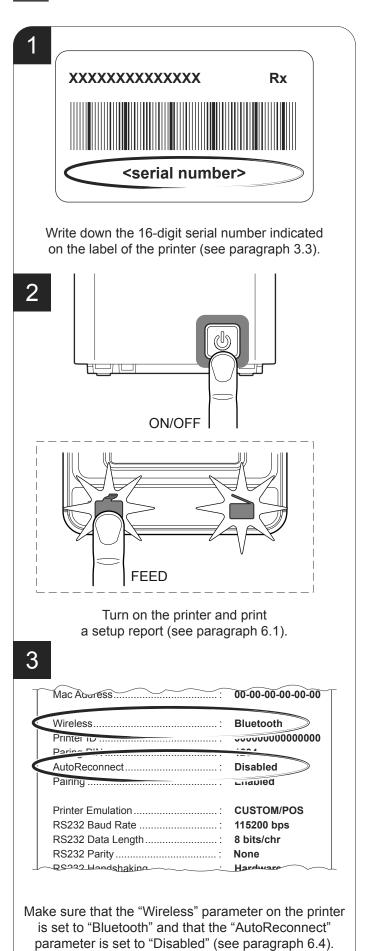
If parameter "Pairing" of the printer is set to "Disabled" (see paragraph 6.4), locate your printer (<device_BT ADDRESS>) and select it with a click. Click the "Next" key to confirm the pairing and skip to step 10.







Linux



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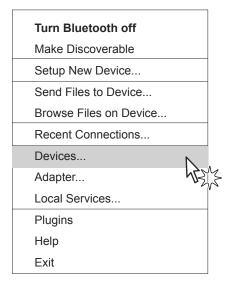


4



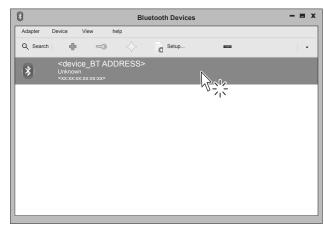
On the PC status bar click the Bluetooth icon.

5

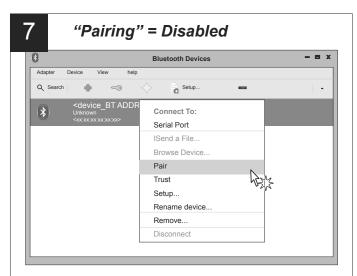


In the dropdown menu click "Devices".

6

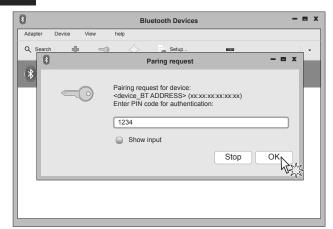


Locate your printer (<device_BT ADDRESS>) and select it with a click.



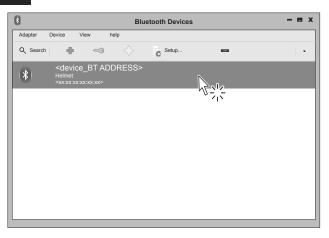
In the dropdown menu, click the "Pair" key. If parameter "Pairing" of the printer is set to "Disabled" (see paragraph 6.4) skip to step 9.

8 "Pairing" = Enabled



If parameter "Pairing" on the printer is set to "Enabled" (see paragraph 6.4), enter the code (1234) and click "OK" to confirm.

9



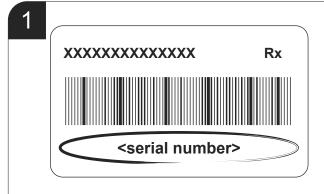
Check that your device appears in the list of paired devices.



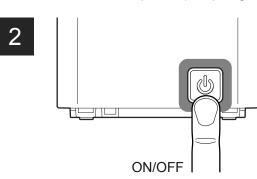


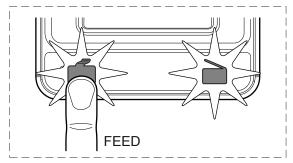
NOTE: Once that has occured the pairing between the host and printer, this remains active even in the event of switching of, interruption of communication, etc.

Android



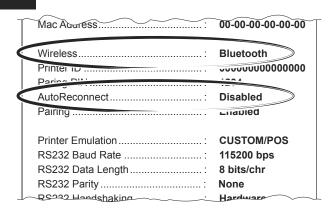
Write down the 16-digit serial number indicated on the label of the printer (see paragraph 3.3).





Turn on the printer and print a setup report (see paragraph 6.1).

3



Make sure that the "Wireless" parameter on the printer is set to "Bluetooth" and that the "AutoReconnect" parameter is set to "Disabled" (see paragraph 6.4).





4



Press the "Settings" icon on your Android device.

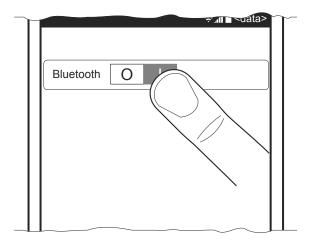
5



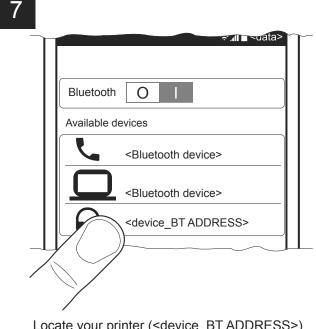
Bluetooth

Press the "Bluetooth" icon.

6

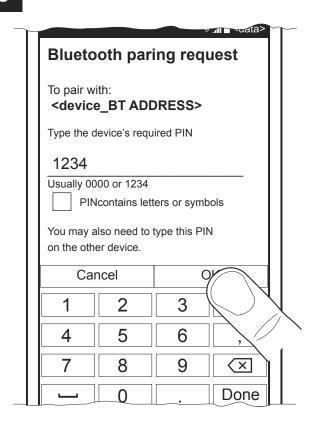


Move the switch to ON to enable the Bluetooth communication and start searching for available devices .



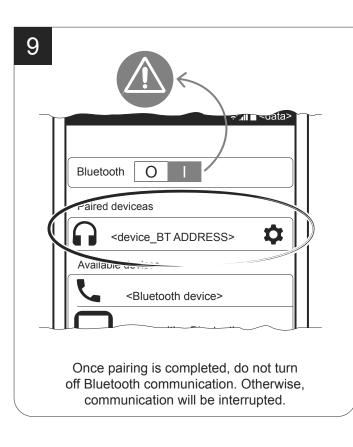
Locate your printer (<device_BT ADDRESS>) and select it with a click.

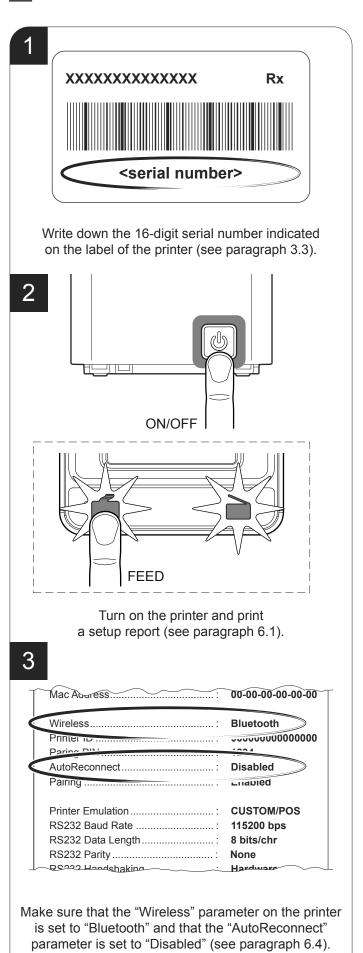
8



If parameter "Pairing" on the printer is set to
"Enabled" (see paragraph 6.4) enter the code (1234)
and press the "OK" key to confirm.

If the parameter "Pairing" on the printer is set to
"Disabled" (see paragraph 6.4) pairing is
automatically performed.





NOTE: To print with an Android device you need to install the application "CustomPrint" available in the download area of the site www.custom.biz



4



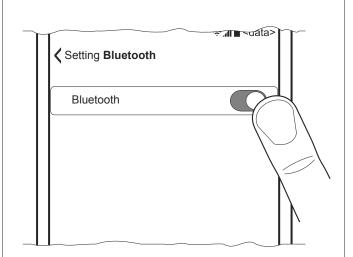
Press the "Settings" icon, on your iOS device.

5

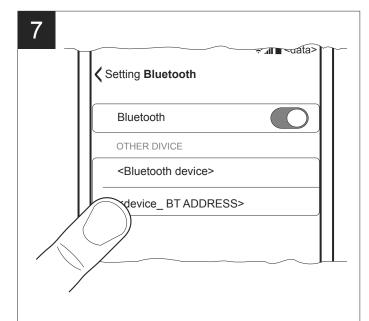


Press the "Bluetooth" icon.

6

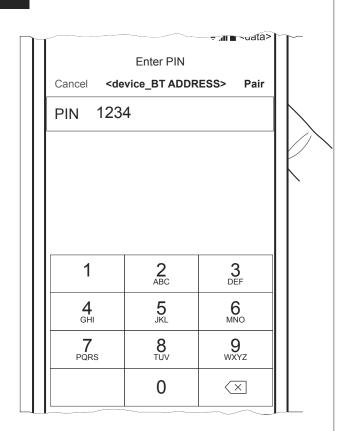


Move the switch to ON to enable the Bluetooth communication and start searching for available devices .



Locate your printer (<device_BT ADDRESS>) and select it with a click.

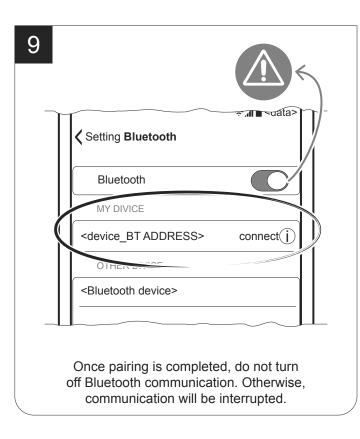
8



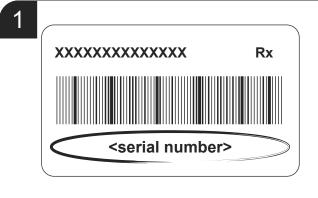
If parameter "Pairing" on the printer is set to "Enabled" (see paragraph 6.4) enter the code (1234) and press the "Pair" key to confirm.

If the parameter "Pairing" on the printer is set to "Disabled" (see paragraph 6.4) pairing is automatically performed.

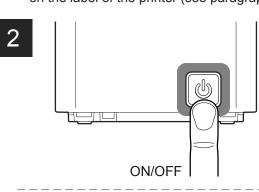


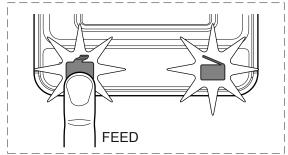


Windows Phone



Write down the 16-digit serial number indicated on the label of the printer (see paragraph 3.3).





Turn on the printer and print a setup report (see paragraph 6.1).

3

Mac Aberess : 00-00-00-00-00

Wireless : Bluetooth

Printer ID : 00-00-00-000

Paring : 00-00-00-00-00

AutoReconnect : Disabled

Pairing : 00-00-00-00-00

Paring : 00-00-00-00-00

Printer ID : 00-00-00-00-00

Paring : 00-00-00-00-00

Printer ID : 00-00-00-00-00

Paring : 00-00-00-00

Paring : 00-00-

Make sure that the "Wireless" parameter on the printer is set to "Bluetooth" and that the "AutoReconnect" parameter is set to "Disabled" (see paragraph 6.4).

NOTE: To print with an iOS device you need to install the application "CustomPrint" available in the download area of the site www.custom.biz



4



Press the "Settings" icon on the Windows device.

5

Bluetooth

Press the "Bluetooth" icon.

6



Move the switch to ON to enable the Bluetooth communication and start searching for for available devices.



Locate your printer (<device_BT ADDRESS>) and select it with a click.

8



If parameter "Pairing" on the printer is set to "Enabled" (see paragraph 6.4) enter the PIN (1234) and press the "Done" key to confirm.

If the parameter "Pairing" on the printer is set to ""Disabled" (see parameter 6.4) pairing in

If the parameter "Pairing" on the printer is set to "Disabled" (see paragraph 6.4) pairing is automatically performed.







NOTE: To print with a Windows Phone device you need to install the application "CustomPrint" available in the download area of the site www.custom.biz

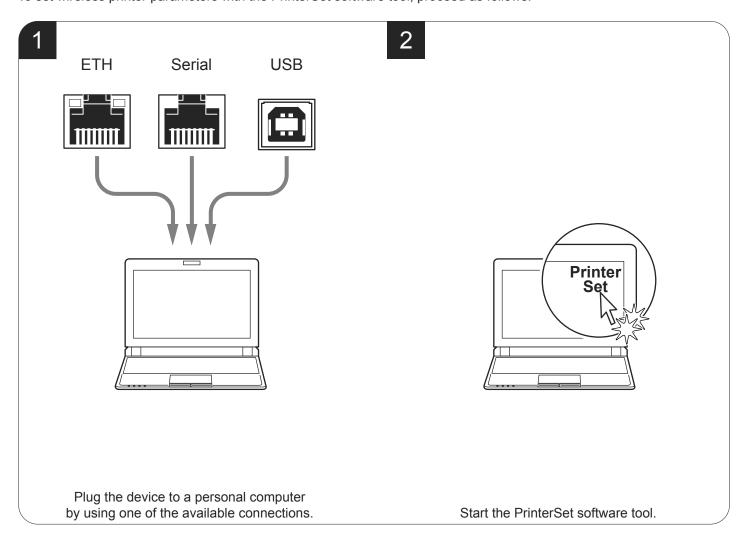


5.8 Pairing with Wi-Fi devices

PrinterSet

The setting of wireless printer parameters can be performed by using the PrinterSet software tool. The PrinterSet software tool is available in the download area of the web site www.custom.biz.

To set wireless printer parameters with the PrinterSet software tool, proceed as follows:



For further information about the use of PrinterSet, refer to the dedicated manual.





CustomPrint

The Wi-Fi connectivity of the printer allows the wireless printing from a mobile device Android after installing the application "CustomPrint", downloadable from the download section of www.custom.biz site.

Through the app "CustomPrint" is also possible to set wireless printer parameters. How to program Access Point connection parameters:

- 1. Set Access Point wireless protocols to B/G and not to N.
- 2. Print the printer setup and check the "Wi-Fi Module" parameter: it must be "CC3100".
- 3. Set the printer in "SmartConfig" mode (see paragraph 3.4).
- 4. "Wi-Fi SSID" and "Password" device parameters must be properly set for the selected access point.

SmartConfig technology is a fast method to configure wireless parameters of a device by pairing it with the wireless home network.

SmartConfig leverages the standard mechanism present in Wi-Fi to configure association information on the fly, regardless of whether user-interface is available.

In this process a Wi-Fi enable device such as a smartphone or a tablet is used to send the association information to the printer. Additionally, SmartConfig does not depend on the host microcontroller's I/O capabilities, thereby usable to associate multiple devices to the same AP simultaneosly.

The configuration process take place through the use of connectionless UDP protocols and is secured with AES-128 encryption.

The device used to configure (smartphone or tablet) stays connected to the user's home network during the entire configuration process.

NOTE:

Set the connection parameters in a environment with a limited number of devices.

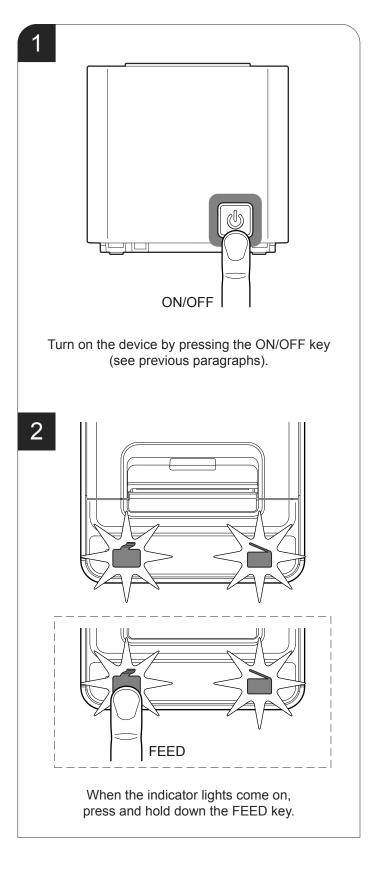
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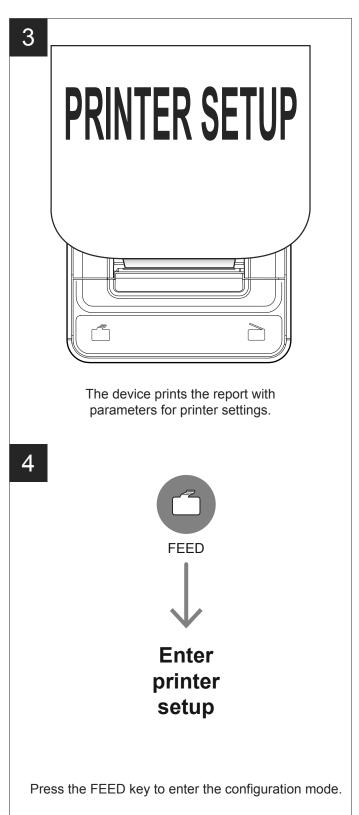
(+)

6 CONFIGURATION

6.1 Configuration mode

To enter the configuration mode and print a setup report with the operating parameters of the device, proceed as follows.



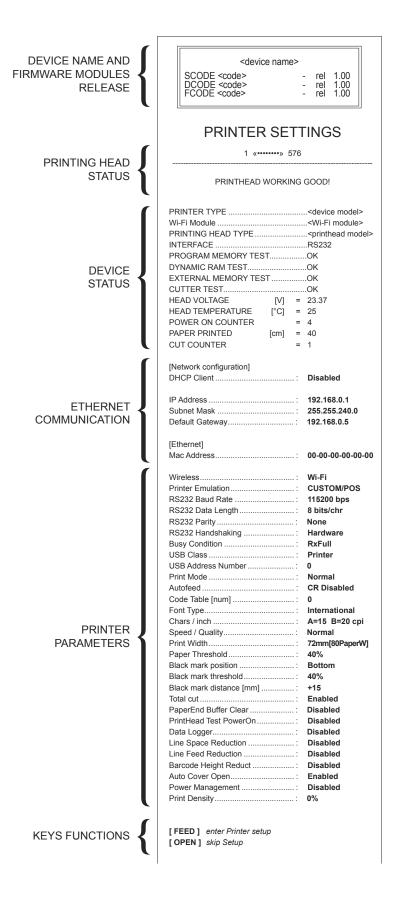




6.2 Setup report

The following figures show the setup reports of the device. The shown values for parameters are sample values; for the list and the description of device and Ethernet parameters see the following paragraphs.

K3 STD, K3 STD DSP







K3 STD Wi-Fi

DEVICE NAME AND FIRMWARE MODULES RELEASE	
PRINTING HEAD STATUS	PRINTER SETTINGS 1 «» 576 PRINTHEAD WORKING GOOD!
DEVICE STATUS	PRINTER TYPE <device model=""> Wi-Fi Module <wi-fi module=""> PRINTING HEAD TYPE <printhead model=""> INTERFACE RS232 PROGRAM MEMORY TEST OK DYNAMIC RAM TEST OK CUTTER TEST OK CUTTER TEST OK HEAD VOLTAGE [V] = 23.37 HEAD TEMPERATURE [°C] = 25 POWER ON COUNTER = 4 PAPER PRINTED [cm] = 40 CUT COUNTER = 1</printhead></wi-fi></device>
Wi - Fi COMMUNICATION	[Network configuration] Disabled DHCP Client Disabled IP Address 192.168.0.1 Subnet Mask 255.255.240.0 Default Gateway 192.168.0.5 [Ethernet] Mac Address 00-00-00-00-00-00 [Wi-Fi] SSID Custom Security Type WPA2 Mac Address 00-00-00-00-00-00
PRINTER PARAMETERS	Wireless
KEYS FUNCTIONS	[FEED] enter Printer setup [OPEN] enter SmartConfig





K3 STD BT

DEVICE NAME AND		
DEVICE NAME AND	<device name=""></device>	
FIRMWARE MODULES	SCODE <code></code>	- rel 1.00 - rel 1.00
RELEASE	SCODE <code> DCODE <code> FCODE <code></code></code></code>	- rel 1.00
(
	PRINTER SET	TINGS
(1 «•••••» 576	
PRINTING HEAD	1 «» 5/6	
STATUS 1	PRINTHEAD WORKING	COODI
(FRINTILAD WORKING	GOOD:
1	PRINTER TYPE	
	PRINTING HEAD TYPE	
	INTERFACE	
	PROGRAM MEMORY TEST	
DEVICE J	DYNAMIC RAM TEST EXTERNAL MEMORY TEST	
STATUS	CUTTER TEST	
		23.37
		25
		4
	1	40 1
	OUT GOOMEN	
([Network configuration]	
	DHCP Client:	Disabled
	IP Address:	192.168.0.1
	Subnet Mask	
	Default Gateway:	
Wi - Fi		
COMMUNICATION	[Ethernet]	
	Mac Address:	00-00-00-00-00
	[Wi-Fi]	
	SSID:	Custom
	Security Type:	
(Mac Address:	00-00-00-00-00
	Wireless:	Bluetooth
BLUETOOTH	Printer ID:	000000000000000
COMMUNICATION	Paring PIN:	
COMMONICATION	AutoReconnect	
•	Pairing:	Enabled
	Printer Emulation:	CUSTOM/POS
	RS232 Baud Rate:	•
	RS232 Data Length	
	RS232 Parity	
	Busy Condition	RxFull
	USB Class	Printer
	USB Address Number:	0
	USB Virtual COM	
	Autofeed	CR Disabled
	Code Table [num]:	
	Font Type:	
PRINTER	Chars / inch	
PARAMETERS	Print Width	
PARAWLTERS	Paper Threshold:	40%
	Black mark position:	Bottom
	Black mark distance [mm]	40% +15
	Black mark distance [mm]	
	PaperEnd Buffer Clear:	
	PrintHead Test PowerOn:	Disabled
	Data Logger:	
	Line Space Reduction	
	Barcode Height Reduct	
	Auto Cover Open	
	Power Management:	
(Print Density:	0%
([FEED] enter Printer setup	
KEYS FUNCTIONS <	[OPEN] skip Setup	
(





6.3 Device status

The device operating status is indicated in the configuration print-out in which, next to the name of the components displayed, the following information is given:

PRINTER TYPE	device model	
WI-FI MODULE *	Wi-Fi module	
PRINTING HEAD TYPE	print head model	
INTERFACE	interface present	
PROGRAM MEMORY TEST	OK appears if functioning and NOT OK if faulty	
DYNAMIC RAM TEST	OK appears if functioning and NOT OK if faulty	
EXTERNAL MEMORY TEST	OK appears if functioning and NOT OK if faulty	
CUTTER TEST	OK appears if functioning and NOT OK if faulty	
HEAD VOLTAGE	voltage of the head	
HEAD TEMPERATURE	temperature of the head	
POWER ON COUNTER	number of power-ups made	
PAPER PRINTED	centimetres of paper printed	
CUT COUNTER	number of cuts performed	

NOTES*:

Only for K3 STD Wi-Fi and K3 STD BT models.

It is possibile to enable/disable Wi-Fi by "PrinterSet" or "Setup.ini", not by setup.





6.4 Network configuration parameters

The parameters marked with the symbol $^{\rm D}$ are the default values. Settings remain active even after the device has been turned off.

DHCP CLIENT	Setting of the DHCP protocol:		
	Disabled D = protocol disabled Enabled = protocol enabled		
	NOTE: When "DHCP Client" is disabled, the IP that is set will be used by both network interfaces.		
IP ADDRESS	IP address of device; this parameter is assigned by the network administrator.		
	NOTE: This parameter can't be modified by setup.		
SUBNET MASK	IP address of device; this parameter is assigned by the network administrator.		
	NOTE: This parameter can't be modified by setup.		
DEFAULT GATEWAY	This parameter identifies the Gateway IP address used to send applications to the external network.		
	NOTE: This parameter can't be modified by setup.		
ETHERNET MAC ADDRESS	This is the number, provided by the constructor, that identifies the device; this number is univocal.		
Wi-Fi SSID	IP address of Wi-Fi; this parameter is assigned by the network administrator.		
	NOTE: This parameter can't be modified by setup.		
SECURITY TYPE	Security Protocol:		
	None D = protocol disabled WPA = WPA protocol enabled WPA2 = WAP2 protocol enabled		
	NOTE: This parameter can't be modified by setup.		
Wi-Fi MAC ADDRESS	This is the number, provided by the constructor, that identifies the device; this number is univocal.		
	NOTE: This parameter can't be modified by setup.		



(

WIRELESS

Activation of the Bluetooth or Wi-Fi communication:

OFF D Wi-Fi Bluetooth

NOTE: If the WIRELESS parameter is set to ON (enabled) do not connect any communication cable to the device and disconnect all the communication cables from the device.

ER ID

Printer identifier.

NOTE: The parameter is printed only for K3 STD BT model.

PAIRING PIN

This is the number, provided by the constructor, that identifies the device; this number is univocal.

NOTES:

This parameter can't be modified by setup.

The parameter is printed only for K3 STD BT model.

AUTORECONNECT

Setting the automatically connection function.

Disabled D = "AutoReconnect" function disabled. It is necessary to perform pairing between printer and Bluetooth device whenever the communication is interrupted. (power off, standby, etc.).

Enabled

"AutoReconnect" function enabled. The printer automatically attempts to restore the connection with the last device connected whenever the communication is interrupted (power off, standby, etc.). Before enabling this function, you must perform the pairing between the bluetooth device and printer at least once.

NOTE:

The parameter is printed only for K3 STD BT model.

PAIRING

Setting the paring function for the Bluetooth (pairing) devices.

Disabled D = pairing function disabled. No PIN is requested to make association

Enabled = pairing function enabled. It is necessary to enter a PIN to perform pairing

(refer to "Pairing pin" parameter of printer setup = 1234).

NOTES:

This parameter can't be modified by setup.

The parameter is printed only for K3 STD BT model.

ATTENTION:

Any changes to network parameters will interrupt browser connection. If the server not responding you must reconnect to the new IP address set.

NOTE:

Wi-Fi network WEP keys only accept ASCII encoding and not HEXADECIMAL encoding.





6.5 Printer parameters

This device allows the configuration of the parameters listed in the following table.

The parameters marked with the symbol ^D are the default values.

Settings remain active even after the device has been turned off and they are stored in non-volatile memory.

PRINTER EMULATION Available emulations for the device:

CUSTOM/POS D

RS232 BAUD RATE Communication speed of the serial interface:

 115200 D
 9600

 57600
 4800

 38400
 2400

 19200
 1200

NOTE: Parameter valid only with serial interface.

RS232 DATA LENGTH Number of bit used for characters encoding:

7 bits/char 8 bits/char D

NOTE: Parameter valid only with serial interface.

RS232 PARITY Bit for the parity control of the serial interface:

None D = parity bit omitted Even = even value for parity bit Odd = odd value for parity bit

NOTE: Parameter valid only with serial interface.

RS232 HANDSHAKING Handshaking:

XON/XOFF = software handshaking

Hardware D = hardware handshaking (CTS/RTS)

NOTES:

Parameter valid only with serial interface.

When the receive buffer is full, if handshaking is set to XON/XOFF, the device sends the XOFF (0x13) on the serial port. When the receive buffer has cleared once again, if handshaking is set to XON/XOFF, the device sends the XON (0x11) on the serial port.

BUSY CONDITION Activation mode for Busy signal:

OffLine/ RXFull = Busy signal is activated when the device is both in OffLine status and

the buffer is full

RXFull D = Busy signal is activated when the buffer is full

NOTE: Parameter valid only with serial interface.



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USB communication class definition.

Printer D = setting the printer function

Mass Storage = setting the sharing mode from Mass Storage Virtual COM = setting the USB port as a virtual serial port

USB ADDRESS NUMBER

Numerical address code for the univocal identification of the USB device (in case of more than a USB device connected with the same PC):

PRINT MODE

Printing mode:

Normal ^D = enables printing in normal writing way Reverse = enables printing rotated 180 degrees

AUTOFEED

Setting of the Carriage Return character:

CR disabled ^D = Carriage Return disabled CR enabled = Carriage Return enabled

CODE TABLE [num]

Identifier number of the character code table to use.

The numeric value of the identifier is made up with the following two parameters for the setting of two digits for the tens and the units:

Setting the digit for tens:

CODE TABLE [num x 10]

0 ^D 2 4 1 3 5

Setting the digit for units:

CODE TABLE [num x 1]

NOTE:

See the paragraph 8.6 to learn about the character tables corresponding to the identification numbers set with this parameter.

The character tables set with this parameter are the same set with the command 0x1B 0x74 (refer to the commands manual of the device).

FONT TYPE

Setting of the font type:

International ^D Chinese GB 18030

NOTE:

When the chinese font is enabled, the selection of the character code table is suspended ("Code table" parameter). When the Chinese fonts is disabled, it returns the character code table previously in use ("Code table" parameter).





CHARS / INCH

Font selection:

A = 11 cpi, B = 15 cpi A = 15 cpi, B = 20 cpi ^D A = 20 cpi, B = 15 cpi

NOTES:

CPI = Characters Per Inch

SPEED / QUALITY

Setting of printing speed and printing quality:

Normal D High Quality High Speed Gray scale

PRINT WIDTH

Width of printing area:

50mm [58 PaperW] 54mm [60 PaperW] 72mm[80 PaperW] ^D

PAPER THRESHOLD

Threshold value (in percent) for the recognition of the presence of paper by the paper

presence sensor:

30% 60% 90% 40% D 70% 50% 80%

BLACK MARK POSITION

Position of the alignment black mark and choice of appropriate black mark sensor:

Disabled D = the black mark alignment is not performed

Top = the black mark position is detected by the upper sensors aimed to the

non-thermal side of the paper (reflection)

Bottom = the black mark position is detected by the lower sensor aimed to the

thermal side of the paper (reflection)

Transparent = the black mark is detected by the lower sensor and the upper sensor

placed in front of (transparence)

NOTE:

The value "Top" can be enabled only in presence of the system with three top sensors (optional).

If the device is equipped with the optional mobile sensor and the value "Bottom" is enabled, the following happens: the fixed sensor takes care of detecting the paper presence and the mobile sensor takes care of detecting the black mark (see chapter 11).

BLACK MARK THRESHOLD

Threshold value (in percent) for the recognition of the presence of black mark by the black mark sensor:

30% 60% 90% 40% D 70%

40% 5 70% 50% 80%

NOTE: If the "Black mark position" parameter is disabled, this parameter is not printed.



BLACK MARK DISTANCE

"Black mark distance" is the minimum distance (in millimetres) between the upper edge of ticket and the black mark (see chapter 11).

The numeric value of the distance is made up with the following four parameters for the

The numeric value of the distance is made up with the following four parameters for the setting of three digits (two for the integer part of the number, one for the decimal part and of the sign):

	and of the sign).						
	BLACK MARK DISTANCE SIGN	+ b = positive distance					
		- = negative distance Setting the digit for tens:					
	BLACK MARK DISTANCE [mm x 10]	0 ^D	2 3	4 5	6 7	8 9	
	BLACK MARK	Settir	Setting the digit for units:				
	DISTANCE [mm x 1]	0 ^D	2	4 5	6 7	8 9	
	BLACK MARK	Settir	ng the o	digit for d	lecimals:		
	DISTANCE [mm x .1]	0 ^D	2	4 5	6 7	8 9	
	NOTES: For example, to set the black mar Black mark distance sign Black mark distance [mm x Black mark distance [mm x Black mark distance [mm x If the "Black mark position" paral distance" are not printed.	10] 1] .1]	= + = 1 = 5 = 0				
TOTAL CUT	Sets the behavior of the cutter when the total cut command 0x1B 0x69 (ESC i) is sent: Disabled = The total cut command 0x1B 0x69 (ESC i) will be ignored and the device executes a partial cut Enabled D = The total cut command 0x1B 0x69 (ESC i) will be executed.						
						the device	
PAPEREND BUFFER CLEAR	Cleaning mode of the data in receive buffer, if the printing is stopped due to lack of paper:						
	Disabled D = The data remain in the receive buffer. When the paper runs out, the device keeps the remaining data in the receive buffer and prints the remaining portion of the ticket after that the new paper is loaded.						
	Enabled = When the paper runs out, all data in the receive buffer are deleted.						
PRINTHEAD TEST POWERON	Disabled D = the test is performe	Setting of the performing of the print head test: Disabled D = the test is performed only during the printing of the setup report Enabled = the test is performed at each power on					





DATA LOGGER	Setting of the data logger function on the LOG folder on the Flash memory:		
	Disabled D = data logger function disabled Text = the printed text is stored in .txt file Graphic = the printed graphic is stored in .bmp file Text + Graphic = both text and graphic are stored in .txt and .bmp files		
	NOTE: The name of the first text file stored will be "00000001.txt"; the name of the first graphic file stored will be "0000001.bmp"; the file number is incremented automatically, when there is no more space, the oldest files are deleted.		
LINE SPACE REDUCTION	Reduction value of line spacing (vertical distance between the base line of a row and the next one). Recommended to reduce paper consumption.		
	Disabled ^D 25% 50% 75%		
LINE FEED REDUCTION	Reduction value for the distance of paper feed. Recommended to reduce paper consumption.		
	Disabled D 25% 50% 75%		
BARCODE HEIGHT REDUCTION	Reduction value for the height of the barcode printed. Recommended to reduce paper consumption.		
	Disabled [□] 25% 50% 75%		
AUTO COVER OPEN	Setting the automatic cover opening function as the paper roll runs out.		
	Enabled ^D Disabled		
POWER MANAGEMENT	Setting the device power management		
	Disabled D = switch on depends on the ON/OFF. key RS232/USB = switch on occurs via RS232/USB communication		
PRINT DENSITY	Adjusting the printing density:		
	-50% -12% +25%		



-37% -25% 0 D

+12%

+37% +50%



6.6 Hexadecimal dump

This function is used for the diagnosis of the characters received from the communications port. Characters are printed as hexadecimal code and the corresponding ASCII code (see below). Each line is preceded by a counter in hexadecimal that indicates the number of bytes received.

During the startup, if you hold down the FEED key, the printer enters the self-test routine and print the setup report. The printer remains in standby until a key is pressed or characters are received through the communication port (Hexadecimal Dump mode). For each character sent, the receipt contain an indication of the hexadecimal and ASCII values (if the characters are underlined, the receive buffer is full). Shown below is an example of a Hexadecimal Dump:

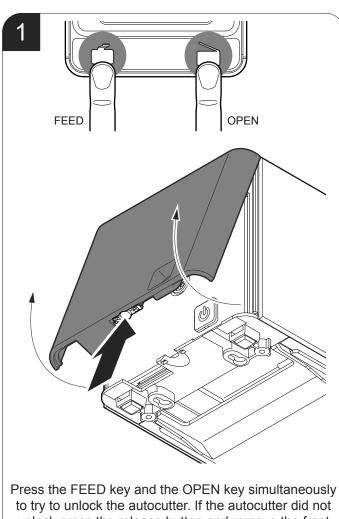
	Н	EX	AD	EC	IMAL	. DUMP
31	32	33	34	35		12345
39	30	31	32	33		90123
37	38	39	75	69		789ui
68	6B	6A	73	64		hkjsd
73	64	66	6B	6A		sdfkj
66	73	64	66	6B		fsdfk
65	69	6F	79	75		eioyu
6F	72	69	75	77		oriuw
6F	75	77	65	72		ouwer
77	65	72	69	6F		werio
72	69	6F	75	77		riouw
6B	6C	73	64	66		klsdf
64	66	6B	73	64		dfksd
73	64	66	6B	6A		sdfkj
66	6B	F2	6A	73		fk≥j
6A	6B	6C	68			jklh



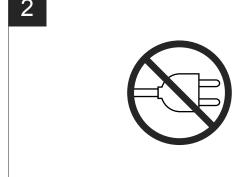


MAINTENANCE

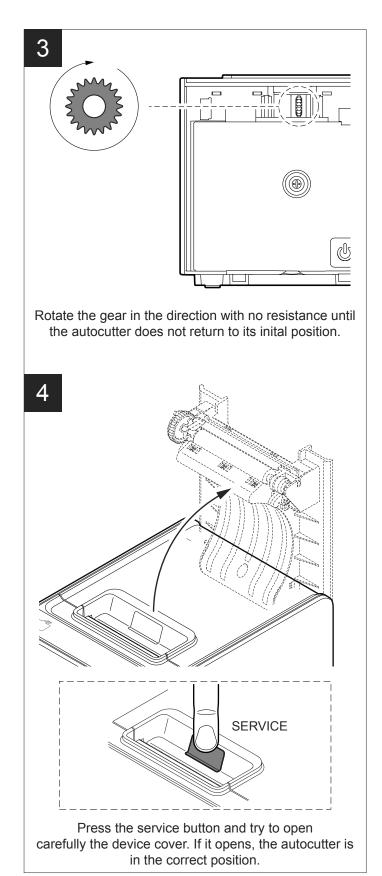
7.1 Autocutter paper jam



unlock press the release button and remove the front cover.

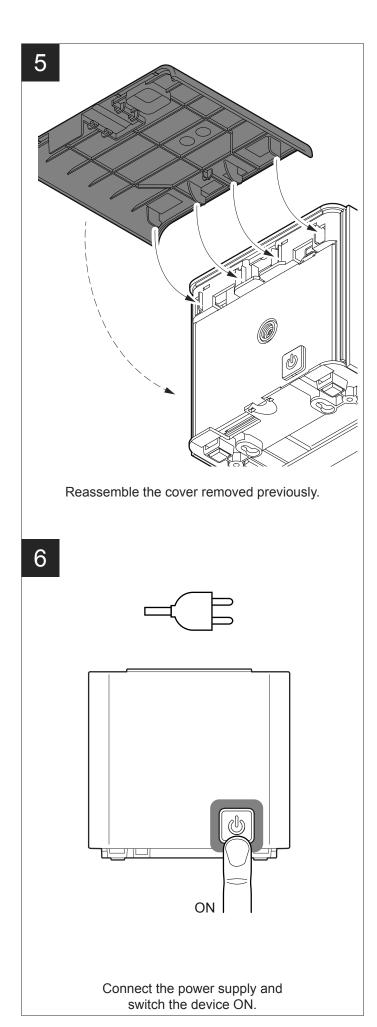


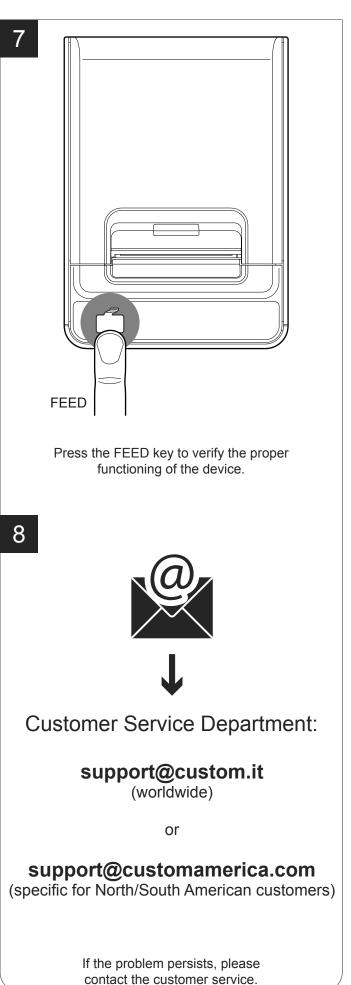
Disconnect the power supply.













7.2 Planning of cleaning operations

The regular cleaning of the device keeps the print quality and extends its life. The following table shows the recommended planning for the cleaning operations.

EVERY PAPER CHANGE	
Printhead	Use isopropyl alcohol
Rollers	Use isopropyl alcohol
EVERY 5 PAPER CHANGES	
Autocutter	Use compressed air
Paper path	Use compressed air or tweezers
Sensors	Use compressed air
EVERY 6 MONTHS OR AS NEEDED	
Printer case	Use compressed air or a soft cloth
Display (optional)	Use compressed air or a soft cloth

For specific procedures, see the following pages.

NOTE:

If you use the device in dusty environments, you must reduce the intervals between the cleaning operations.





7.3 Cleaning

For periodic cleaning of the device, see the instructions below

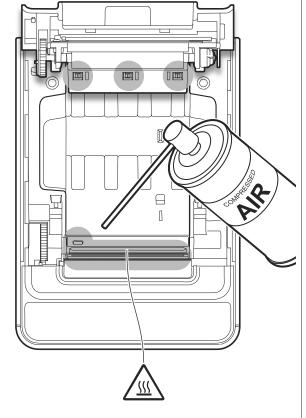
Sensors





Disconnect the power supply cable and open the device cover (see paragraph 5.1).

2



ATTENTION:

Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the machine. To remove paper scraps, use tweezers or compressed air.

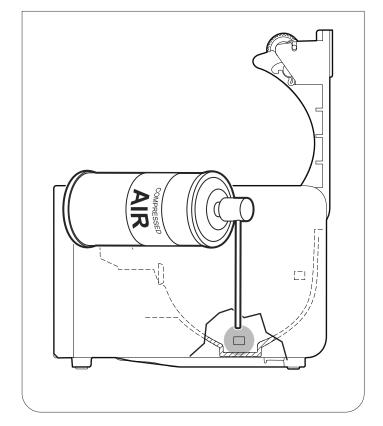








Clean the device sensors by using compressed air.





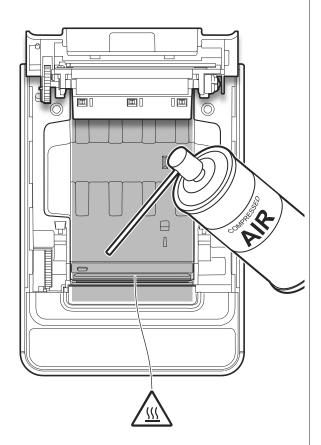
Paper path

1



Disconnect the power supply cable and open the device cover (see paragraph 5.1).

2



ATTENTION:

Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the machine. To remove paper scraps, use tweezers or compressed air.









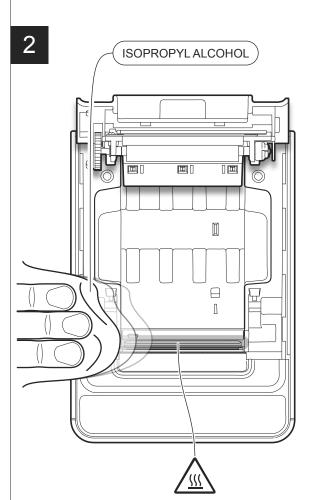
Clean the area involved in the passage of paper by using compressed air.

Print head

1



Disconnect the power supply cable and open the device cover (see paragraph 5.1).



ATTENTION:

Do not use solvents, or hard brushes.

Do not let water or other liquids get inside the machine. To remove paper scraps, use tweezers or compressed air.







Clean the printing head by using a non-abrasive cloth moistened with isopropyl.



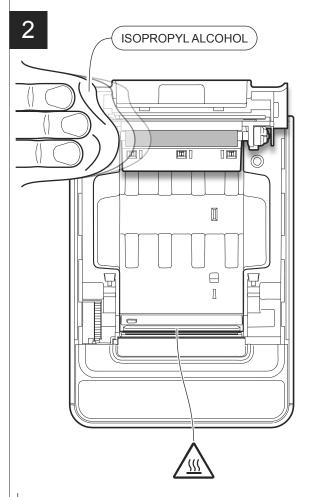


Platen roller

1



Disconnect the power supply cable and open the device cover (see paragraph 5.1).



ATTENTION:

Do not use solvents, or hard brushes.

Do not let water or other liquids get inside the machine. To remove paper scraps, use tweezers or compressed air.







Clean the platen roller by using a non-abrasive cloth moistened with isopropyl.

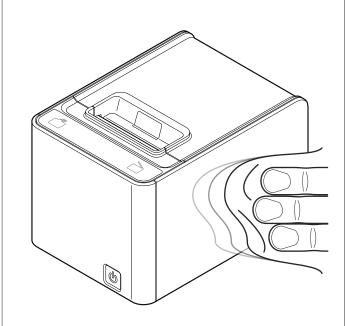
Case

1



Disconnect the power supply cable.

2



ATTENTION:

Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the machine. To remove paper scraps, use tweezers or compressed air.









To clean the device, use compressed air or a soft cloth.



Autocutter







Disconnect the power supply cable and open the device cover (see paragraph 5.1).

2



ATTENTION:

Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the machine. To remove paper scraps, use tweezers or compressed air.

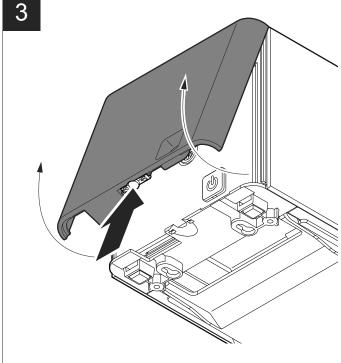






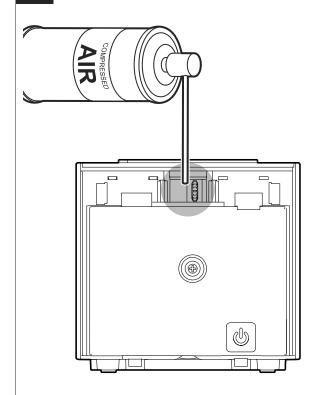


Clean the autocutter compartment from the inside using compressed air.



Press the release button and remove the front cover.



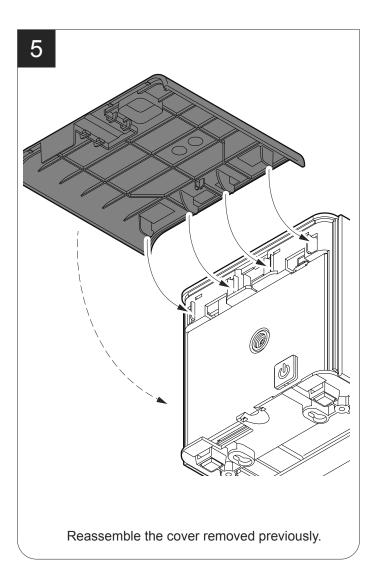


Clean the autocutter compartment from the outside using compressed air.





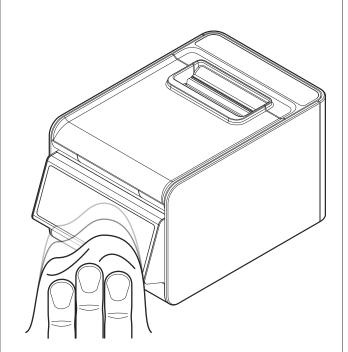
Display (optional)





Disconnect the power supply cable.

2



ATTENTION:

Do not use alcohol, solvents, or hard brushes.
Do not let water or other liquids get inside the machine.
To remove paper scraps, use tweezers or compressed air.









To clean the display, use compressed air or a soft cloth.





7.4 Upgrade firmware

WARNING: During communication between PC/device for the firmware update it is strictly forbidden to disconnect the communication cable or to remove the power supply of the devices not to endanger the proper functioning of the device.

NOTES:

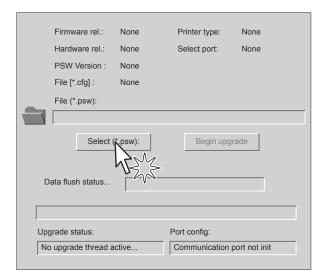
The latest firmware of the device is available in the download area of the web site www.custom.biz

Install on the PC used for device upgrading the "UpgCePrn" software available in the download area of the web site www.custom.biz.

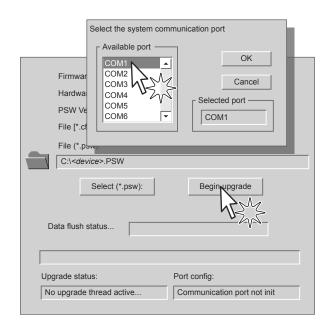
UPDATE VIA SERIAL INTERFACE

Proceed as follows:

- 1. Write down the product code (14 digits) printed on the product label (see paragraph 3.3).
- 2. Go to the web site www.custom.biz and download the appropriate firmware release from the download area.
- 3. Print the setup report (see chapter 6).
- 4. Switch off the device.
- 5. Connect the device to the PC using a serial cable (see paragraph 4.2).
- 6. Switch on the device.
- 7. Launch the software "UpgCePrn".
- 8. Select the update file ".PSW" location:



9. Select the serial communication port (ex. COM1):



- 10. Detecting and setting of the parameters necessary for serial communication are performed automatically and then updating begins.
- 11. After a few minutes a message on the screen warns that the update is completed.



12. Print a new setup report to verify the new firmware release (see chapter 6).





UPDATE VIA USB INTERFACE

ATTENTION:

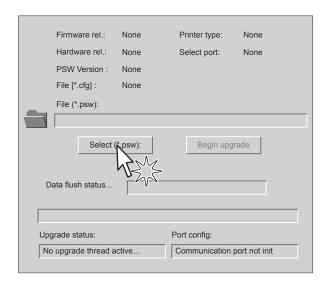
Only during the firmware update, the connection between PC and device must be direct, without the use of wireless HUB.

Only during the firmware update, do not connect or disconnect other USB devices.

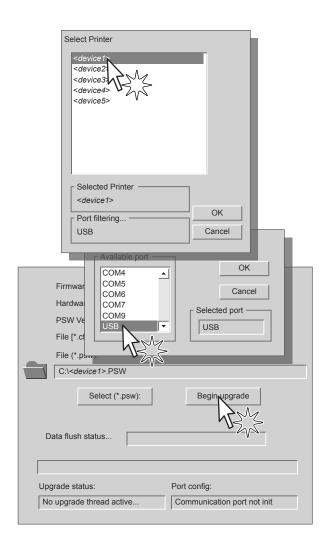
NOTE: For communication via USB you must install on PC the device driver available in the download area of the web site www.custom.biz.

Proceed as follows:

- 1. Write down the product code (14 digits) printed on the product label (see paragraph 3.3).
- 2. Go to the web site www.custom.biz and download the appropriate firmware release from the download area.
- 3. Print the setup report (see chapter 6).
- 4. Switch off the device.
- 5. Connect the device to the PC using a USB cable (see paragraph 4.2).
- 6. Switch on the device.
- 7. Launch the software "UpgCePrn".
- 8. Select the update file ".PSW" location:



9. Select item USB and then select the USB device among those proposed (ex. device1):



10. After a few minutes a message on the screen warns that the update is completed.



11. Print a new setup report to verify the new firmware release (see chapter 6).



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8 SPECIFICATIONS

8.1 Hardware specifications

GENERALS	
Sensors	Head temperature, paper presence, detection of black mark, cover open, low paper, adjustable detection of black mark (optional), detection of black mark on non-thermal side (optional)
Emulations	CUSTOM/POS
Printing driver	Windows XP VISTA (32/64 bit) Windows 7 (32/64 bit) Windows 8 (32/64 bit) Windows 8.1 (32/64 bit) Windows 10 (32/64 bit) Linux OPOS JavaPOS Android iOS Windows Phone 8
INTERFACES	
USB port	12 Mbit/s (USB 2.0 full speed)
RS232 serial port	from 1200 bps to 115200 bps
Ethernet port	10 Mbit/s
MEMORIES	
Receive buffer	16 kB
Flash memory	4 MB (+1 MB internal to the micro)
RAM memory	64 MB
Graphic memory	Logos dynamic management (max 1 MB graphic memory)
PRINTER	
Resolution	203 dpi (8 dot/mm)





Printing method	Thermal, fixed head	
Head life (1)		
Abrasion resistance (2)	200 km (with recommended paper)	
Pulse durability	200 M	
Printing width	50, 54, 72 mm	
Printing mode	Normal, 90°, 180°, 270°	
Printing format	Height/Width from 1 to 6, bold, reverse, underlined, italic	
Character fonts	54 character code tables (see paragraph 8.6) 2 TrueType font ⁽³⁾ Extended chinese GB18030-2000	
Printable barcode	UPCA, UPCE, EAN13, EAN8, CODE39, ITF, CODABAR, CODE93, CODE128, CODE32, PDF417, DATAMATRIX, AZTEC, QRCODE	
Printing speed (1) (4)	High Speed = 280 mm/s Normal = 190 mm/s High Quality = 140 mm/s Grey Scale = 120 mm/s	
PAPER		
Type of paper	Thermal rolls, heat-sensitive side on outside of roll Fan-fold	
Paper width	80 mm ± 0.5 mm	
Paper width (with optional paper width adapter)	58, 60, 80 mm ± 0.5 mm	
Paper weight	from 55 g/m² to 90 g/m²	
Paper thickness	from 61 μm to 85 μm	
Recommended types of paper	KANZAN KF50 and KP460 MITSUBISHI PF5067, TL 1000 and TL4000	
External roll diameter	max. 100 mm	
External roll core diameter	25 mm (+ 1 mm)	
Core thickness	2 mm (+1 mm)	





Paper end	Not attached to roll core
Core type	Cardboard or plastic
AUTOCUTTER	
Paper cut	Total or partial
Estimated life (1)	1000000 cuts
PRINTER ELECTRICAL SPECIFICATIONS	
Power supply	24 Vdc ±10% (optional external power supply)
Medium consumption	2 A
Typical. consumption (4)	1.5 A
Standby consumption	0.1 A
ELECTRICAL SPECIFICATIONS POWER SUPPLY cod.	.963GE020000046
Power supply voltage	from 100 Vac to 240 Vac
Frequency	from 50 Hz to 60 Hz
Output	24 V, 2.5 A
Power	60 W
ENVIRONMENTAL CONDITIONS	
Operating temperature	from 0°C to +50°C
Relative humidity	from 10% Rh to 85% Rh (w/o condensation)
Storage temperature	from -20 °C to +70 °C
Storage relative humidity	from 10% Rh to 90% Rh (w/o condensation)

NOTES:

- (1): Respecting the regular schedule of cleaning for the device components.
- (2): Damages caused by scratches, ESD and electromigration are excluded.
- (3): "Veramono.ttf" and "Vera.ttf" are installed on device flash disk. It is possible to install additional TrueType fonts (see paragraph 12.4).
- (4): Referred to a standard CUSTOM receipt (L=10 cm, Density = 12.5% dots on).
- (5): Referred to the UL measurements.





8.2 Character specifications

Character set	3		
Character density	11 cpi	15 cpi	20 cpi
Number of columns	32	42	56
Chars / second	2026	2806	3648
Lines / second	63	63	63
Characters (L x H mm)-Normal	2.25 x 3	1.625 x 3	1.25 x 3

NOTE: Theoretical values.



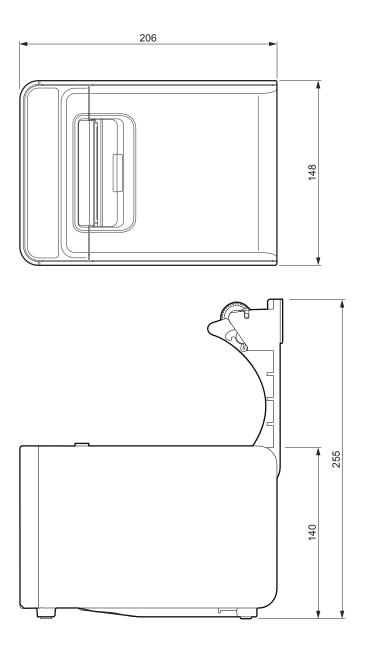


8.3 Device dimensions

K3 STD, K3 STD Wi-Fi, K3 STD BT

Length	206 mm
Height	140 mm (with cover closed) 255 mm (with cover open)
Width	148 mm
Weight	1970 g (w/o paper roll)

NOTE:



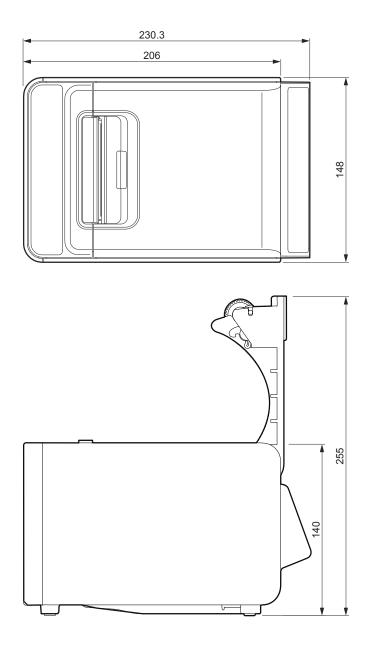




K3 STD DSP

Length	230.3 mm
Height	140 mm (with cover closed) 255 mm (with cover open)
Width	148 mm
Weight	2100 g (w/o paper roll)

NOTE:



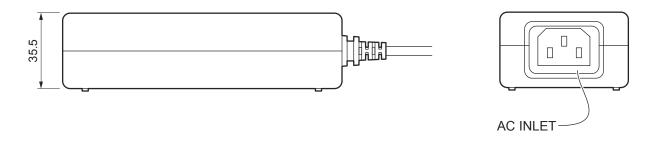


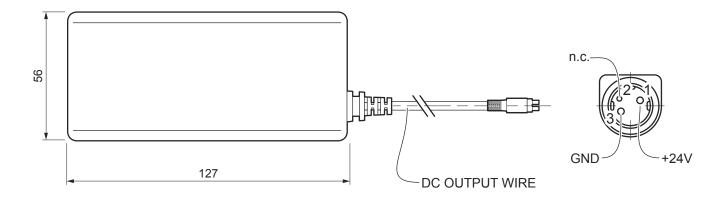


8.4 Power supply dimensions cod. 963GE020000046 (optional)

Length	127 mm
Height	35.5 mm
Width	56 mm

NOTE:





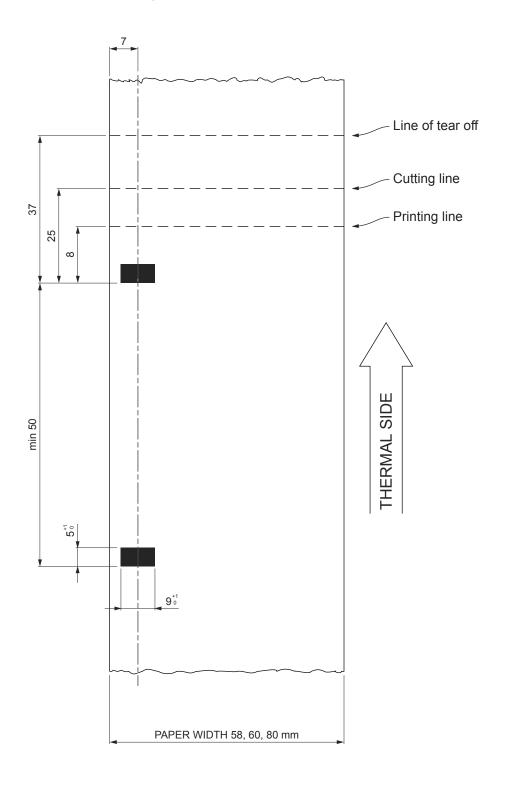


(

8.5 Paper specification

Paper with black mark for fixed sensor

The following image shows the placement of the black mark on the thermal side of the paper. For more information about the use of paper with black mark see chapter 11.



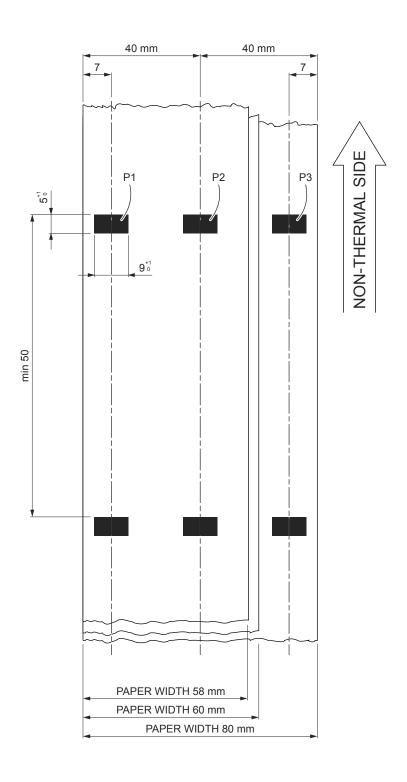
NOTES:

All the dimensions shown in figures are in millimetres.

Paper width 58 mm and 60 mm are available only with adapter paper guide provided as accessory (see chapter 10).



The following image shows the placement of the black mark on the non-thermal side of the paper. The black mark can be placed either in the position P1 or P2 (paper width 58 mm or 60 mm) or even as a P3 (paper width 80 mm). For more information about the use of paper with black mark see chapter 11.



NOTES:

All the dimensions shown in figures are in millimetres.

Paper width 58 mm and 60 mm are available only with adapter paper guide provided as accessory (see chapter 10).

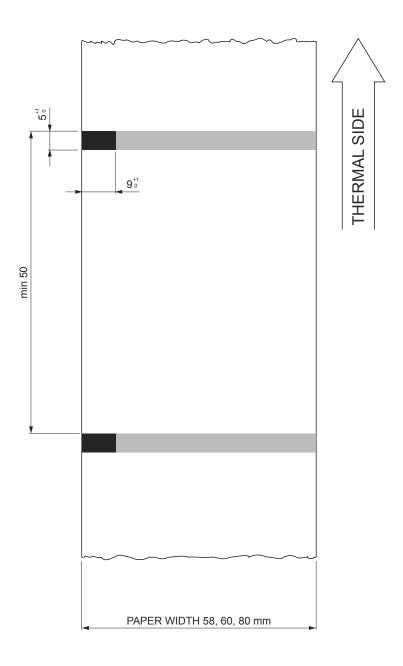




Paper with black mark for mobile sensor

The following image shows the placement of the black mark on the thermal side of the paper. The black mark can be placed anywhere on the whole width of the paper.

For more information about the use of paper with black mark see chapter 11.



NOTES:

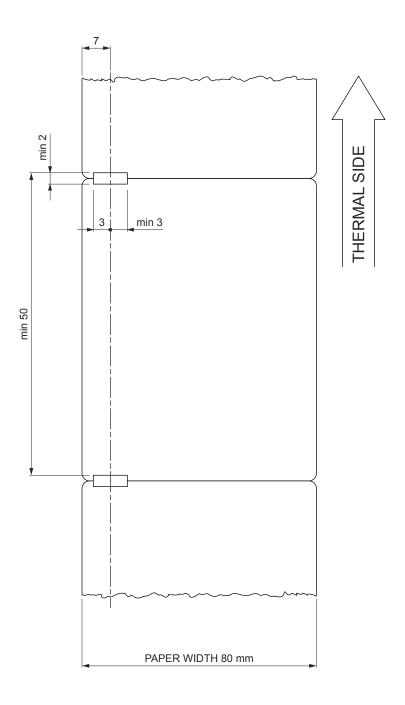
All the dimensions shown in figures are in millimetres.

Paper width 58 mm and 60 mm are available only with adapter paper guide provided as accessory (see chapter 10).



Fan-fold paper with hole

The following image shows the placement of the hole on the paper by referring to the thermal side. To manage tickets with hole, set the parameter "Black mark position" to "Transparence" (see paragraph 6.5). For more information about the use of paper with hole see chapter 11.







8.6 Character sets in CUSTOM/POS emulation

The printer has 3 internal fonts with a width of 11, 15, 20 cpi, which can be associated with one of the coding tables stored on the device.

To know the coding tables actually stored on the device, print the font test (see paragraph 3.4).

The selection of the font and the encoding table is done via command (see the commands manual of the device) or through the Setup procedure by properly setting the parameter "Chars / Inch", "Code Table" and "Chinese Font" (see paragraph 6.5).

The following is the complete list of coding tables that can be installed on the device.

0 PC437 - U.S. 1 Katakana	A., Standard Europe
1 Katakana	
2 PC850 - Multi	lingual
3 PC860 - Porti	iguese
4 PC863 - Cana	adian/French
5 PC865 - Norc	ic
11 PC851 - Gree	k on request
12 PC853 - Turk	sh on request
13 PC857 - Turk	sh
14 PC737 - Gree	k
15 ISO8859-7 - 0	Greek on request
16 WPC1252	
17 PC866 - Cyril	ic 2
18 PC852 - Latir	2
19 PC858 for Eu	ro symbol at position 213
20 KU42 - Thai	
21 TIS11 - Thai	on request
26 TIS18 - Thai	on request
30 TCVN_3 - Vie	tnamese on request
31 TCVN_3 - Vie	tnamese on request
32 PC720 - Arab	c on request





<codetable></codetable>	Character Tables	
33	WPC775 - Baltic Rim	on request
34	PC855 - Cyrillic	
35	PC861 - Icelandic	on request
36	PC862 - Hebrew	
37	PC864 - Arabic	
38	PC869 - Greek	on request
39	ISO8859-2 - Latin 2	on request
40	ISO8859-15 - Latin 9	on request
41	PC1098 - Farci	
42	PC1118 - Lithuanian	on request
43	PC1119 - Lithuanian	on request
44	PC1125 - Ukrainian	
45	WPC1250 - Latin 2	
46	WPC1251 - Cyrillic	
47	WPC1253 - Greek	
48	WPC1254 - Turkish	
49	WPC1255 - Hebrew	
50	WPC1256 - Arabic	
51	WPC1257 - Baltic Rim	
52	WPC1258 - Vietnamese	
53	KZ1048 - Kazakhstan	
255	Space page	





8.7 True Type fonts

In CUSTOM/POS emulation, it is possible to use TrueType fonts. To be used, a TrueType font must be monospace type (every character of the font must have the same dimension). The check is made by the device when the font is selected.

TrueType fonts will be automatically scaled by the device in order to obtain the same available width for the embedded fonts (11, 15 and 20 cpi).

The quality of TrueType fonts and the correct positioning into the printable area will result from the font producers and the font implementation.

For the correct printing of the code tables, it is necessary that the selected TrueType font contains all the characters in the tables. Otherwise, the '□' symbol will be printed instead the missing character. All commands for printing configuration are usable both with TrueType fonts and with embedded fonts. It is possible to address the TrueType font respects the UNICODE standard (see www.unicode.org), by using UTF-8 or UTF-16 encoding.





9 CONSUMABLES

The following table shows the list of available consumables for device:

DESCRIPTION CODE

6730000000385

THERMAL PAPER ROLL

weight = 55 g/m^2 width = 80 mm $\emptyset \text{ external} = 90 \text{ mm}$ $\emptyset \text{ core} = 25 \text{ mm}$



THERMAL PAPER ROLL

weight = 60 g/m^2 width = 80 mmØ external = 100 mmØ core = 25 mm

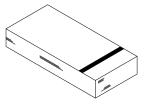


67300000000009

67A0000000305

FAN-FOLD

weight = 255 g/m^2 dimensions = 155 mm x 65 mm











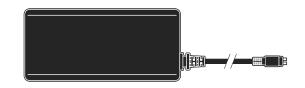
10 ACCESSORIES

The following table shows the list of available accessories for device:

DESCRIPTION CODE

963GE020000046

POWER SUPPLY (for technical specifications, see paragraph 8.1)



2140000000193

PAPER WIDTH ADAPTER for 58 mm and 60 mm paper width









11 ALIGNMENT

Device is provided with sensors for the use of alignment black mark in order to handle:

- roll of tickets with pre-printed fields and a fixed length;
- Fan-fold of tickets with pre-printed fields and a fixed length.

The black mark alignment may be formed by

- black mark printed on paper (see paragraph 8.5);
- hole between two tickets (see paragraph 8.5);

All alignment sensors are "reflection" sensors: this kind of sensor emits a band of light and detects the quantity of light reflected to it. The presence of the black mark is therefore detected by the amount of light that returns to the sensor, considering that the light is reflected by the white paper and absorbed by the black mark.

To use tickets with holes, it is possible to use the same sensors as "transparence" sensors, coupled two by two: a beam of light is emitted by the transmitter sensor and the quantity of light which reaches the opposite receiver sensor is detected. The presence of the hole is detected evaluating the amount of light that arrives to the opposite sensor, considering that the paper doesn't allow the beam of light to reach the receiver, whereas a hole lets the light to reach the receiver.

The following paragraphs show how to correctly set the configuration parameters of device in order to assure the alignment.





11.1 Enable alignment

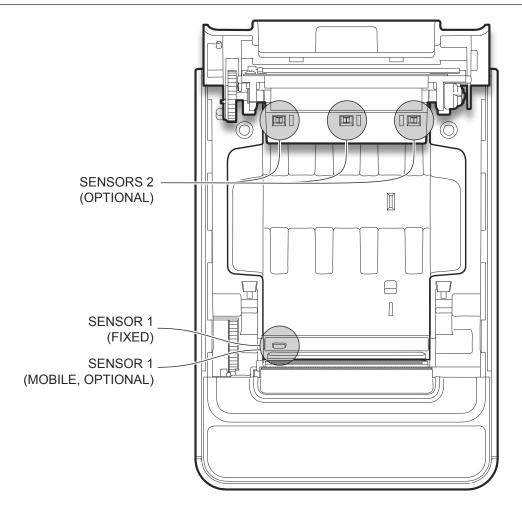
Device is provided with one, two or three sensors for alignment, placed as follows:

- one fixed sensor aimed to the thermal side of the paper.
- one mobile sensor (optional) aimed to the thermal side of the paper.
- a system with three sensors (optional) aimed to the non-thermal side of the paper.

To guarantee the alignment, it is necessary to correctly choose the sensor to use for the black mark detection depending on the type of balck mark and its location on the ticket.

To do this, you must enable the parameter "Black mark position" during the setup procedure (see chapter 6) and set the correct value of this parameter as described in the following table.

SENSOR USED (see following figures)	VALUE OF THE "BLACK MARK POSITION" PARAMETER	USING MODE OF SENSORS	BLACK MARK TYPE
-	Disabled	-	Alignment disabled
1	Bottom	Reflection	Black mark printed on the thermal side of paper
2	Тор	Reflection	Black mark printed on the non-thermal side of paper
1 + 2	Transparence	Transparence	Hole between tickets



The following figures show the usable format of paper and the corresponding sensors used for alignment:

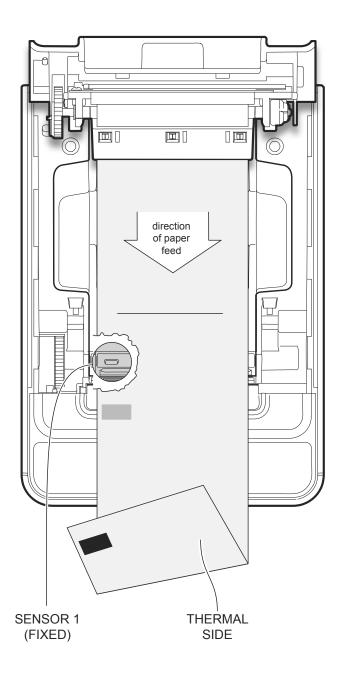


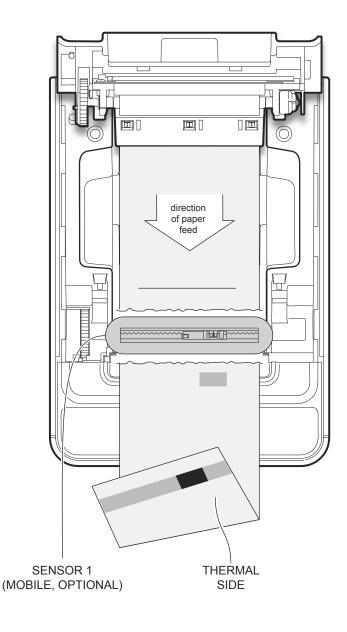


Paper with black mark on the thermal side

In the standard model the detection of black mark and paper presence is performed by the fixed sensor.

In the model with mobile sensor (optional) detecting the presence of paper is executed by the fixed sensor while the black mark detection is performed by the mobile sensor.







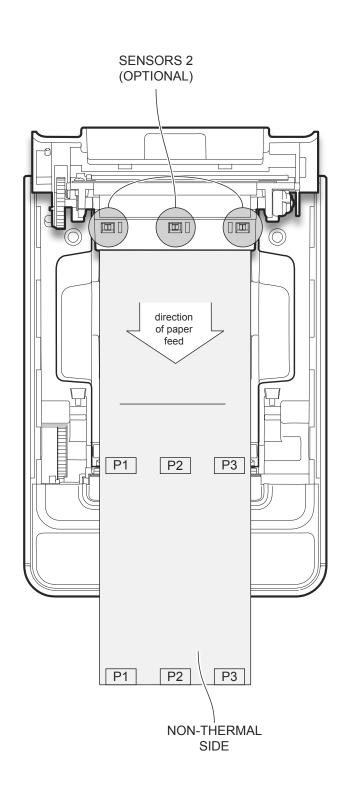


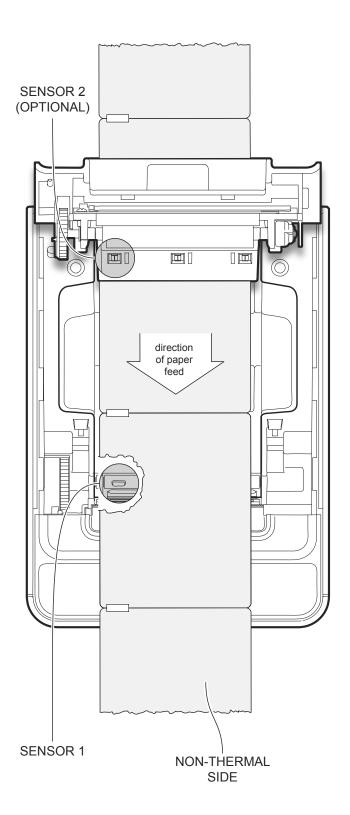
Paper with black mark on the non-thermal

The black mark can be placed in one of three zones shown. This configuration requires the system with three sensors (optional).

Tickets with hole

This configuration requires the system with three sensors (optional).









11.2 Calibration

The sensor calibration occurs automatically and consists in adjusting the quantity of light emitted to match the degree of whiteness of the paper used and the degree of black of the mark printed on paper.

The device automatically performs the self-calibration during the setup procedure only if the "Black mark position" parameter is set to a value other than "Disabled" (see chapter 6).

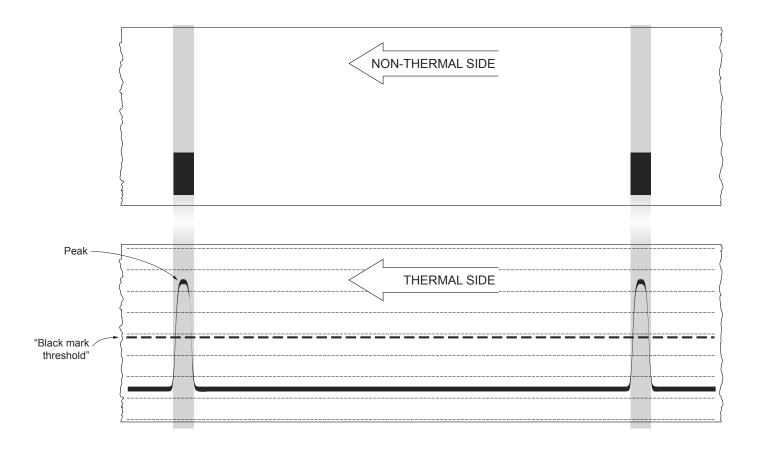
When self-calibration starts, the device performs some paper feeds and then it prints the calibration result and the value of the PWM duty-cicle of the alignment sensor driver so that it can be perform an optimal black mark detection:

Autosetting black mark : OK PWM Duty Cycle : 85.3%

The "Autosetting black mark" parameter indicates the result of the self-calibration procedure; OK will appear if it has been successful, NOT OK will appear if the procedure has failed.

After the printing of the procedure result, the device offers the execution of the function of paper characterization "Characterize paper" and the change of the "Black mark threshold" parameter which represents the detection threshold of the black mark. Choosing the "Yes" value for the "Characterize paper" parameter, the device prints a graphic representation (see following figures) of the outgoing voltage of the alignment sensor (expressed as a percentage) and the "Black mark threshold" value. This graphic representation is useful to set the most suitable value to assign to the "Black mark threshold" parameter and then to better identify the optimal threshold value which takes into account the variations of the signal and the small oscillations around zero.

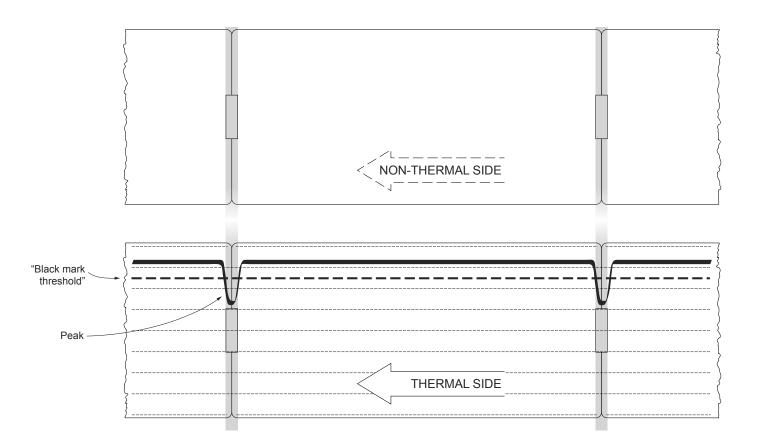
The following figure shows an example of paper with the non-thermal paper printed with black marks: the outgoing voltage is constant while passing the white paper between two black marks and presents a peak at each black mark. In this case, the optimal value for the "Black mark threshold" parameter is placed about half of the peak.





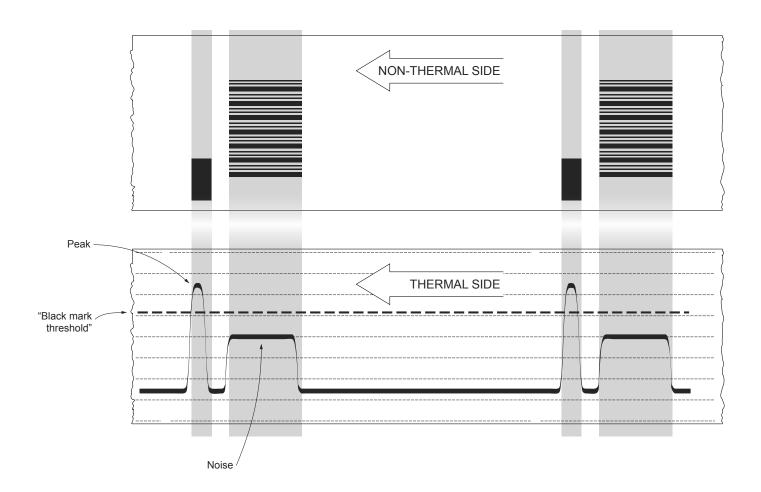


The following figure shows an example of paper with holes: the outgoing voltage is constant while passing the paper between two holes and presents a variation at each hole. In this case, the optimal value for the "Black mark threshold" parameter is placed about half of the variation.





The following figure shows an example of paper with the non-thermal paper printed with black marks and other graphics (for example, a barcode): the outgoing voltage is constant while passing the white paper between two black marks, presents a peak at each black mark and presents some "noise" at each barcode. In this case, the optimal value for the "Black mark threshold" parameter is located about halfway between the peak value and the maximum value of the "noise".



If the maximum value of "noise" read by the sensor is very close to the peak value, it might be difficult to place the value of the "Black mark threshold" at an intermediate point. In these cases, it is mandatory that the portion of paper between the point of printing end and the front black mark is completely white (no graphics). In this way, the only next graphic detected by the sensor for alignment after the printing end will be the black mark.



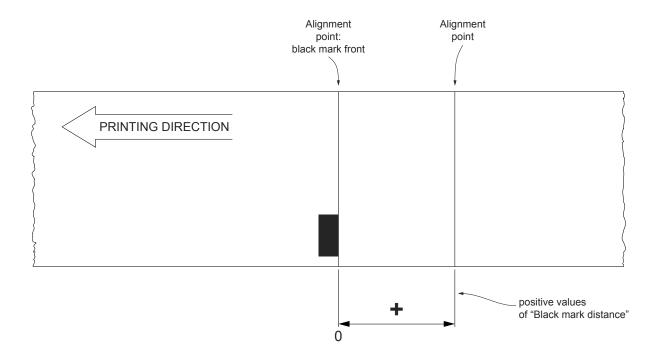


11.3 Alignment parameters

The "alignment point" is defined as the position inside the ticket to use for the black mark alignment. The distance between the black mark edge and the alignment point is defined as "Black mark distance".

Referring to the front of the black mark, the value of "Black mark distance" value varies from 0mm minimum and 99.9 mm maximum.

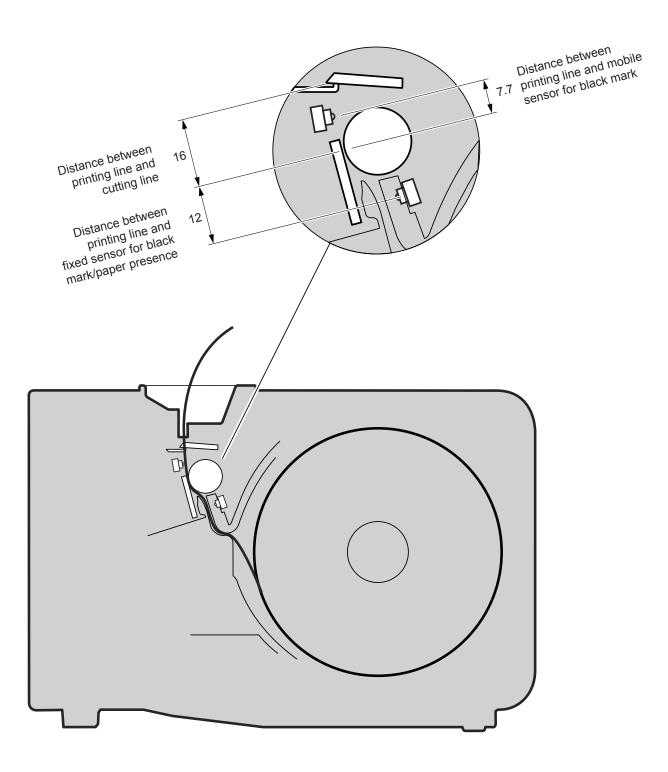
If the "Black mark distance" value is set to 0, the alignment point is set at the beginning of the black mark.







The following figure shows a section of the device with the paper path and the distances (in millimetres) between the alignment sensor, the print head and the cutter (cutting line).







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To define the alignment point you need to set the device parameters that compose the numerical value of the "Black mark distance" parameter. (see paragraph 6.4).

For example, to set a black mark distance of 15 mm between the black mark and the alignment point, the parameters must be set on the following values:

Black mark distance sign : +
Black mark distance [mm x 10] : 1
Black mark distance [mm x 1] : 5
Black mark distance [mm x .1] : 0

The "Black mark distance" parameter, may be modified as follows:

- during the setup procedure of the device (see chapter 6)
- by modifying the "Setup.ini" file (see paragraph 13.5)
- by using the 0x1D 0xE7 command (for more details, refer to the commands manual)
- by driver

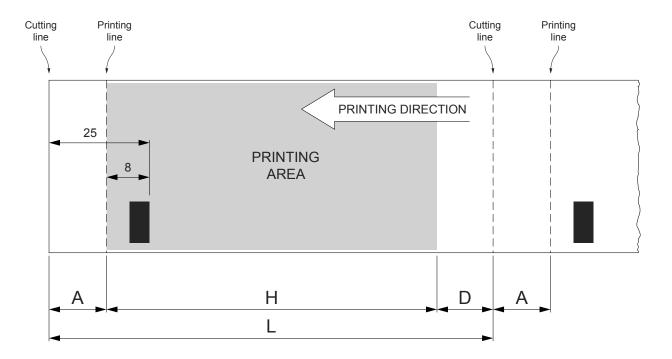




11.4 Printing area

In order to print ticket containing only one black mark and to not overlay printing to a black mark (that will make it useless for the next alignment), it is important to well calibrate the height of the printing area of ticket according to the inter-black mark distance.

The following figure shows an example of tickets with "Black mark distance" set to 0:



A "Non-printable area" of 17 mm generated from:

"Distance between black mark front/cutting line" - "Distance between black mark front/printing line"

where:

"Distance between black mark front/cutting line" = 25 mm (fixed distance)
"Distance between black mark front/printing line" = 8 mm (fixed distance)

- H Distance between the first and the last print line, called "Height of the printing area".
- L Ticket length.
- D Automatic feed for alignment at the next black mark.

To use all the black marks on the card, you must comply with the following equation:

$$H + A \le L$$

The height of the printing area (H) can be increased to make no progress on alignment (D) but no further.







12 TECHNICAL SERVICE

In case of failure, contact the Technical Service by sending an e-mail to support@custom.it detailing:

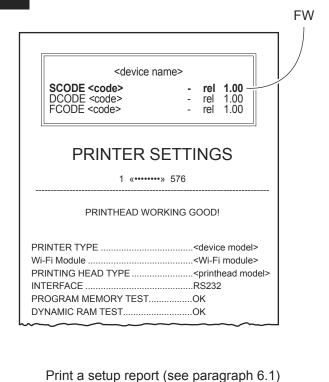
- 1. Product code
- 2. Serial number
- 3. Hardware release
- 4. Firmware release

To get the necessary data, proceed as follows:



Write down the data printed on the product label (see paragraph 3.3)

2



The setup report shows the firmware release

3





Customer Service Department:

support@custom.it (worldwide)

or

support@customamerica.com
(specific for North/South American customers)

Send an e-mail to the technical service, with the data collected.





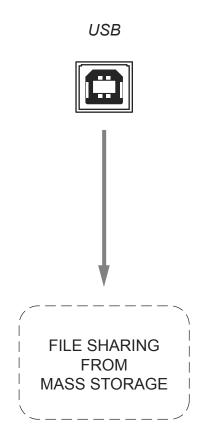


13 ADVANCED FUNCTIONS

13.1 File sharing

The device can be connected to a PC with a USB cable (see paragraph 4.2).

Through this kind of connection, it is possible to manage drivers, fonts and logos of the device and configure the operating parameters by files sharing from Mass Storage.



13.2 Drivers installation

It is possible to install the new driver update directly into the folder "Driver" on the Flash Drive of the device. To enter the Flash Drive by files sharing from Mass Storage you need to enable the relative parameter during the configuration process (see chapter 6).





13.3 Logos management

It is possible to store new logos in addition to default logos stored on Flash Disk. The device automatically provides to convert BMP image to the error-diffusion format in black and white.

It is possible to directly add the new logo directly into the folder "Pictures" on the Flash Drive of the device.

To enter the Flash Drive by files sharing from Mass Storage, you need to enable the relative parameter during the configuration process (see chapter 6).

After adding the logo, open the configuration file "PictList.ini" and add a new line with a number associated to the logo (to be used with device's commands), a letter for the memory unit and the logo file name, as indicated in the instructions written inside the "PictList.ini" file.

To delete a logos stored in the device, proceed as follows:

- 1. delete the selected logo from the "Pictures" folder on Flash Disk;
- 2. in the configuration file "PictList.ini", delete the line related to the erased logo.

The logos stored on Flash Disk and converted by the device, can be printed by using the number associated to the logo during the conversion step.

The correspondence between file-name and logo-number is warrant by the configuration file "PictList.ini" and it is verifiable with the logo test.

13.4 Fonts management

It is possible to store new font in addition to default fonts stored on Flash Disk.

You can directly add the new font directly into the folder "Fonts" on the Flash Drive of the device.

To enter the Flash Drive by files sharing from Mass Storage, you need to enable the relative parameter during the configuration process (see chapter 6).

NOTE

Uploading the new font directly from the "Font" folder of Microsoft® Windows® directory, remember that the displayed font name into the "Font" folder may not match the real name of the font file.

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13.5 Setup

It is possible to configure the default parameters for device setup by editing the "Setup.ini" file on the Flash Drive.

To enter the Flash Drive by files sharing from Mass Storage, you need to enable the relative parameter during the configuration process (see chapter 6).

After editing device's parameter, simply save the "Setup.ini" file to make the modifies activated.

The "Setup.ini" file is a configuration file that contains all the configurable parameters listed in text format and divided into some sections (indicated in square brackets).

The available values for every parameter, are listed after the parameter name. The value marked with the symbol '*' is the default one. To modify printer's parameters, change the numeric value after the name of parameters. To set the parameter to the default value, change the numeric value with the symbol D.

The "Setup.ini" file permits the configuration of the following parameters:

-	_	_			
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Print Mode	0*, 1	0 = Normal 1 = Reverse		
Autofeed	0*, 1	0 = CR disabled 1 = CR enable		
Chars / inch	0, 1*, 2	0 = A=11 B=15 cpi 1 = A=15 B=20 cpi 2 = A=20 B=15 cpi		
Code Table [num]	0			
Font Type	0*, 1	0 = International 1 = Chinese GB18030		
Speed / Quality	0, 1*, 2	0 = High Quality 1 = Normal 2 = High Speed 3 = Grey scale		
Paper Width	0, 1, 2*	0 = 50mm[58 PaperW] 1 = 54mm[60 PaperW] 2 = 72mm[80 PaperW]		
Paper Threshold	0, 1*, 2, 3, 4, 5, 6	0 = 30 % 1 = 40 % 2 = 50 %	3 = 60 % 4 = 70 % 5 = 80 %	6 = 90 %
Black mark position	0*, 1	0 = Disabled 1 = Bottom		
Black mark threshold	0, 1*, 2, 3, 4, 5, 6	0 = 30 % 1 = 40 % 2 = 50 %	3 = 60 % 4 = 70 % 5 = 80 %	6 = 90 %





Black mark distance [mm]				
Total cut	0*, 1	0 = Enabled 1 = Disabled		
PaperEnd Buffer Clear	0*, 1	0 = Disabled 1 = Enabled		
PrintHead Test PowerOn	0*, 1	0 = Disabled 1 = Enabled		
Data Logger	0*, 1, 2, 3	0 = Disabled 1 = Text 2 = Graphic 3 = Text + Graphic		
Line Space Reduction	0*, 1, 2, 3	0 = Disabled 1 = 25% 2 = 50% 3 = 75%		
Line Feed Reduction	0*, 1, 2, 3	0 = Disabled 1 = 25% 2 = 50% 3 = 75%		
Barcode Height Reduction	0*, 1, 2, 3	0 = Disabled 1 = 25% 2 = 50% 3 = 75%		
Auto Cover Open	0, 1*	0 = Disabled 1 = Enabled		
Power Management	0*, 1	0 = Disabled 1 = RS232/USB		
Print Density	0, 1, 2, 3, 4*, 5, 6, 7, 8	0 = - 50 % 1 = - 37 % 2 = - 25 %	3 = - 12 % 4 = 0 % 5 = + 12 %	6 = + 25 % 7 = + 37 % 8 = + 50 %



[INTERFACE]

Wireless	0*, 1, 2	0 = Off 1 = Wi-Fi 2 = Bluetooth		
RS232 Baud Rate	1, 2, 3, 4, 5, 6, 7, 8*	1 = 1200 bps 2 = 2400 bps 3 = 4800 bps	4 = 9600 bps 5 = 19200 bps 6 = 38400 bps	7 = 57600 bps 8 = 115200 bps
RS232 Data Length	0*, 1	0 = 8 bits/chr 1 = 7 bits/chr		
RS232 Parity	0*, 1, 2	0 = None 1 = Even	2 = Odd	
RS232 Handshaking	0, 1*	0 = Xon/Xoff 1 = Hardware		
Busy Condition	0*, 1	0 = RxFull 1 = OffLine/RxFull		
USB Class	0*, 1, 2	0 = Printer 1 = Mass Storage 2 = Virtual COM		
USB Address Number	0*, 1, 2, 3, 4, 5, 6, 7, 8, 9	0 = 0 1 = 1 2 = 2 3 = 3	4 = 4 5 = 5 6 = 6 7 = 7	8 = 8 9 = 9

[NETWORK]

DHCP Client	0*, 1	0 = Disabled 1 = Enabled	
IP Address			
Subnet Mask			
Default Gateway			
TCP Printer Port			
MAC Address Ethernet (Reading only)			





SSID			
Security Type	0, 1, 2, 3*	0 = None 1 = WEP 2 = WPA 3 = WPA2	
Password			
TCP Timeout			
MAC Address Wi-Fi (Reading only			
[BLUETOOTH]			
Printer ID			
Build Version			
Autoreconnect	0*, 1	0 = Disabled 1 = Enabled	
Pairing	0*, 1	0 = Disabled 1 = Enabled	



Pairing pin









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