USER MANUAL

K3 Lottery



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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 2014/30/EU and 2014/35/EU inasmuch as it was designed in conformity with the provisions laid down in the following Standards:

- EN 55032 (Electromagnetic compatibility of multimedia equipment - Emission Requirements)
- EN EN55024/EN55035 (Electromagnetic compatibility of multimedia equipment Immunity requirements)
- EN IEC/EN62368-1 (Audio/video, information and communication technology equipment)

The device is in conformity with the essential requirements laid down in Directives 2014/53/EU about devices equipped with intentional radiators. The Declaration of Conformity and other available certifications can be downloaded from the site www.custom4u.it.



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 2012/19/EU, 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 **77200000004900**

For further information about the use of "PrinterSet" tool refer to the manual with code **7820000001800**

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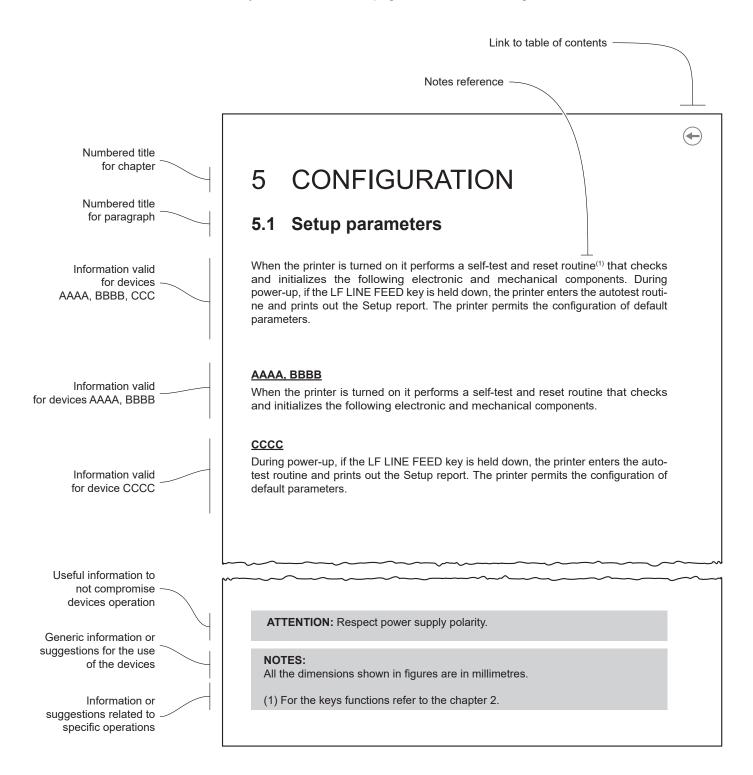
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1 INTRODUCTION

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.











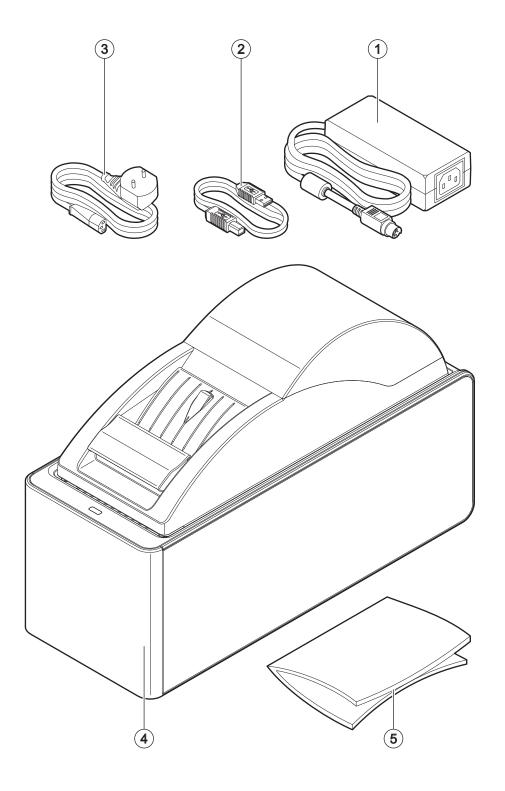
2 DESCRIPTION

2.1 Box contents

Remove all the box contents 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. AC adapter
- 2. USB cable
- 3. Power cord
- 4. Device
- 5. Short guide

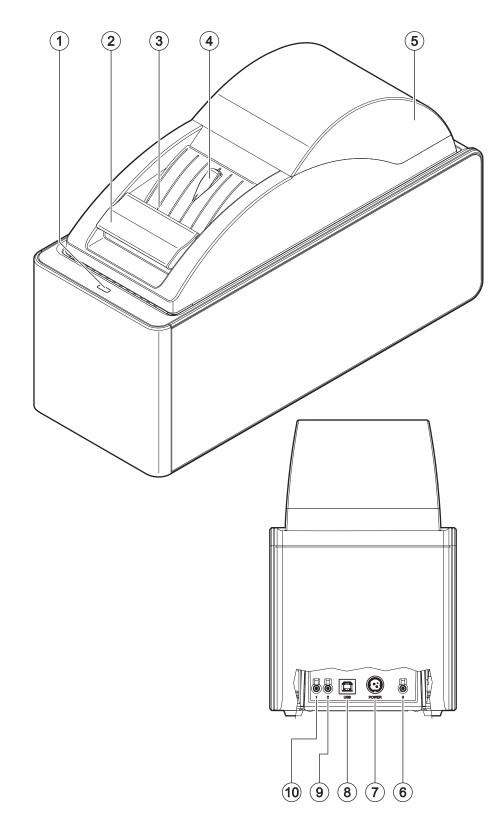






2.2 Device components: external views

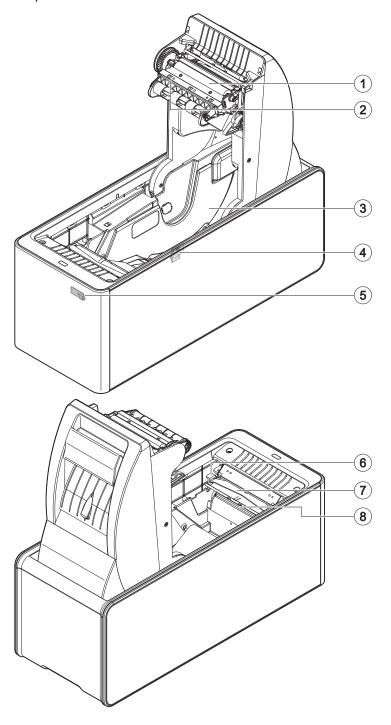
- 1. Status LED
- 2. Opening lever for paper compartment
- 3. Paper out
- 4. Stacker
- 5. Paper compartment cover
- 6. Key 3
- 7. Power supply port
- 8. USB interface port
- 9. Key 2
- 10. Key 1





2.3 Device components: internal views

- 1. Platen roller
- 2. Sensor for detecting alignment black mark
- 3. Adapter guides for paper width
- 4. Low paper sensor
- 5. Sensor for detecting paper presence
- 6. Sensor for cover open
- 7. Autocutter
- 8. Printing head with head temperature sensor

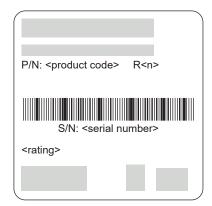






2.4 Product label

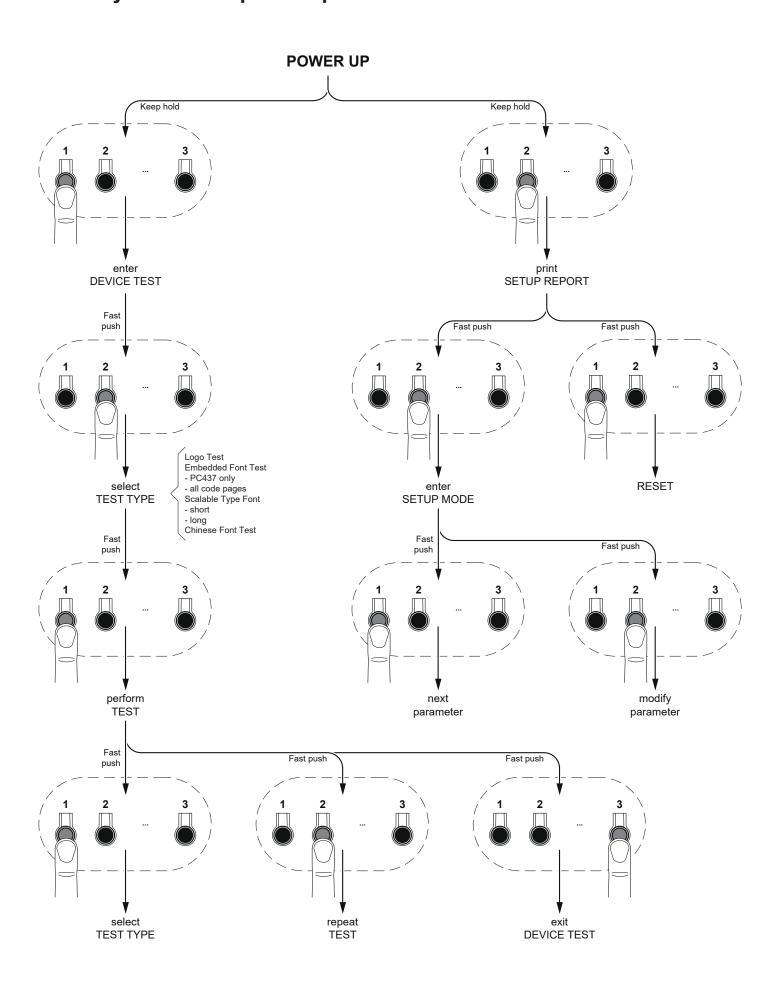
The main data used to identify the machine are shown on the label attached to the bottom of the device. In particular, it shows the electrical data for the connection to a power source. It also shows the product code, the serial number and the hardware revision (R).





(

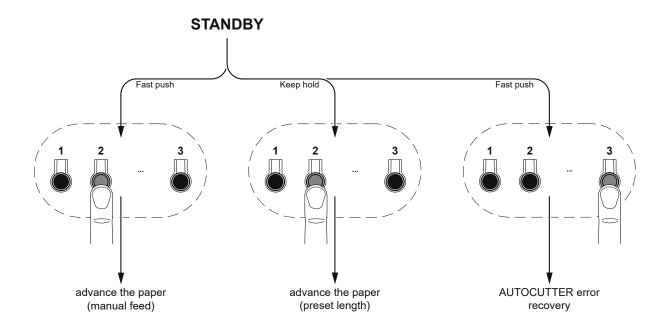
2.5 Key functions: power up







2.6 Key functions: standby





2.7 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 LEI)	DESCRIPTION
-	OFF	DEVICE OFF
GREEN	ON	DEVICE ON: NO ERROR
GREEN COMMUNICATION	x 1	RECEIVE DATA
	x 2	RECEPTION ERRORS (PARITY, FRAME ERROR, OVERRUN ERROR)
STATUS	x 3	COMMAND NOT RECOGNIZED
	x 4	COMMAND RECEPTION TIME OUT
	x 2	PRINTHEAD OVERHEATED
	x 3	PAPER END
YELLOW RECOVERABLE ERROR	x 4	PAPER JAM
	x 5	POWER SUPPLY VOLTAGE INCORRECT
	x 6	COVER OPEN
	x 3	RAM ERROR
RED UNRECOVERABLE ERROR	x 5	AUTOCUTTER ERROR (1)
	x 7	STACKER ERROR (2)

NOTES:

⁽²⁾ When this error occurs, send the proper unlock command (refer to commands manual) or switch the device off/on to recover error.



⁽¹⁾ When this error occurs, press the key 3 to recover error or send the proper unlock command (refer to commands manual).



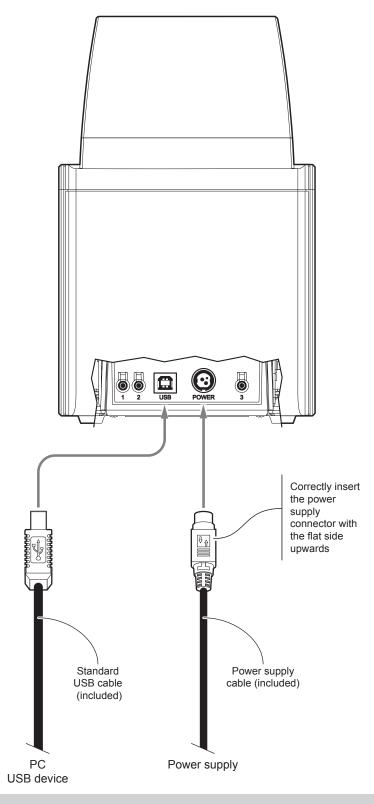




3 INSTALLATION

3.1 Connections

The following figure shows the possible connections for the device. For further details on fixing the power cable, refer to paragraph 3.2.

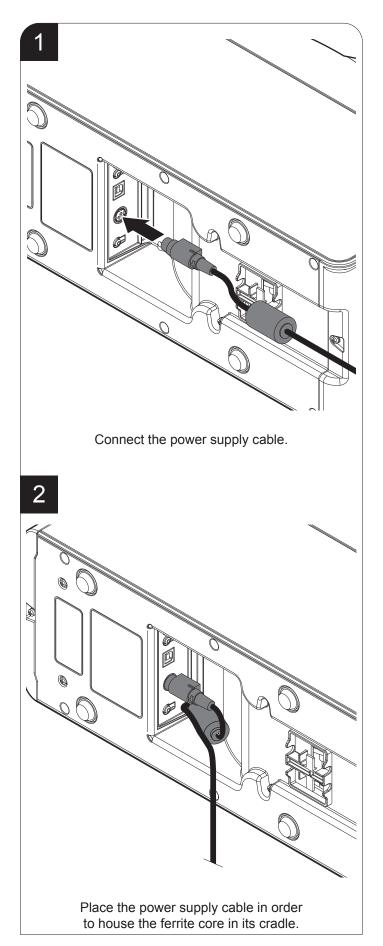


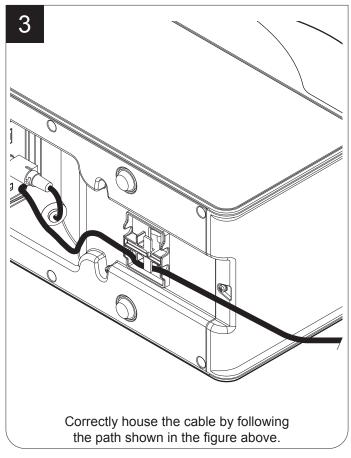
ATTENTION: In some using conditions, we recommend the installation of a ferrite core on the power supply cable.





3.2 Fixing the power cable

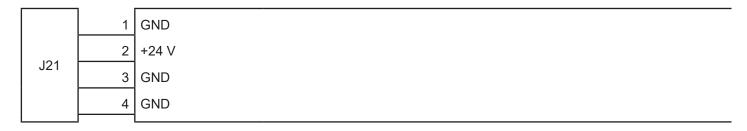




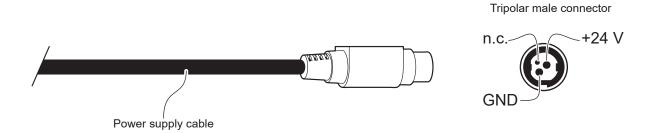
•

3.3 Pinout



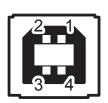


The following figure shows the connector pinout of power supply cable:



ATTENTION:

Respect power supply polarity.



USB INTERFACE USB type B female connector





3.4 Driver and SDK

The drivers for the following operating system are available in the website www.custom4u.it:

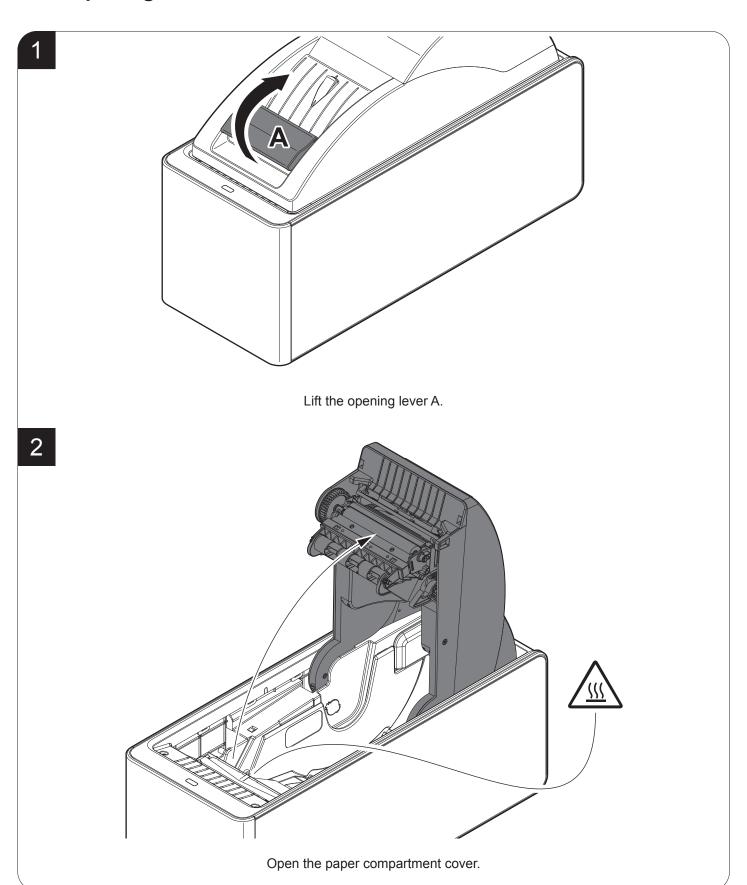
OPERATING SYSTEM	DESCRIPTION	INSTALLATION PROCEDURE	
	Driver for Windows 7 (32/64 bit)		
Windows	Driver for Windows 8 (32/64 bit)	From the Start menu, press Run and type-in the path where the SW	
	Driver for Windows 8.1 (32/64 bit)	was saved on your PC, then click OK. Follow the instructions that appear on the screen to install the driver.	
	Driver for Windows 10 (32/64 bit)		
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.	
Android	SDK per Custom Android API	Estrarre la cartella compressa nel percorso di destinazione desiderato. Seguire le istruzioni presenti nel pacchetto software scaricato su come installare e usare l'SDK.	





4 OPERATION

4.1 Opening the cover



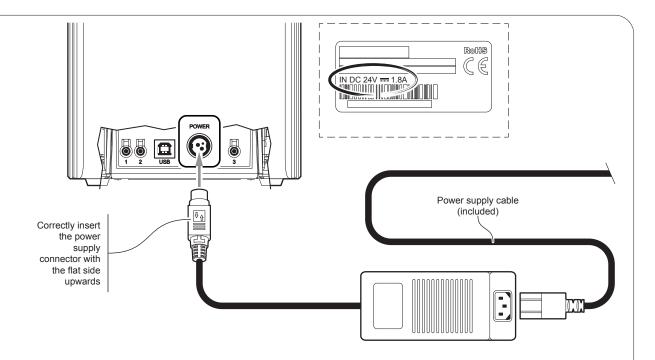




4.2 Switch the device on/off

To switch on the device proceed as follows. For further details on fixing the power cable, refer to paragraph 3.2.

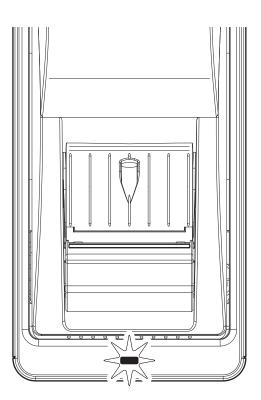
1



Switch on the device by connecting the power adapter (included) to the device and the mains outlet.

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

2



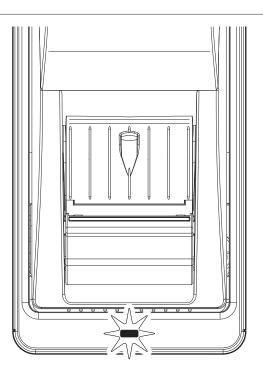
The status LED is switched on and the device is ready. To switch off the device, disconnect the power adapter from the power supply port.



4.3 Loading the paper roll

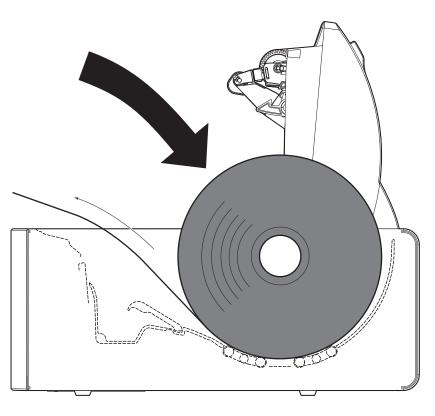
To change the paper proceed as follows. At every change of paper, check inside the device to locate and remove any scraps of paper.





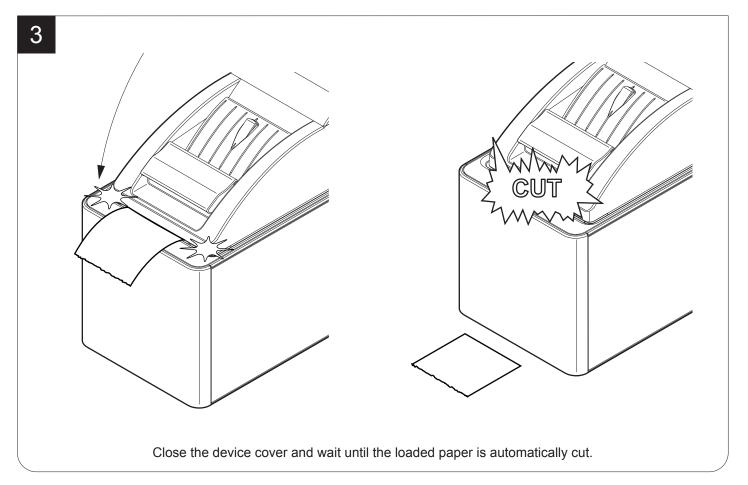
Switch the device on (see paragraph 4.2).

2



Open the device cover (see paragraph 4.1). Place the roll in the paper compartment and pull out the paper for a few centimetres.





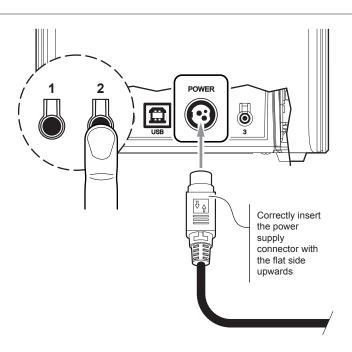
(+)

5 CONFIGURATION

5.1 Configuration by keys

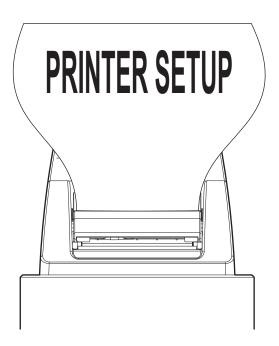
To enter the configuration mode and print a setup report with the operating parameters of the device, proceed as follows.

1



Press key 2. While pressing key 2, switch on the device by connecting the power adapter (see paragraph 4.2).

2



The device prints the report with the settings parameters. Follow the instruction printed on the paper to proceed with configuration procedure.



The following figure shows the setup report of the device. The shown values for parameters are sample values; for the list and the description of device parameters see the following paragraphs.

DEVICE NAME, FIRMWARE MODULES RELEASE AND SERIAL NUMBER	
PRINTHEAD STATUS	PRINTER SETTINGS 1 640 PRINTHEAD WORKING GOOD!
DEVICE STATUS	PRINTER TYPE
PARAMETERS FOR DEVICE CONFIGURATION	Printer emulation CUSTOM POS Print Mode Normal Autofeed Disabled Chars / Inch A=15 B=20 cpi Font Type International Speed / Quality High Speed Paper Threshold 40% Notch/B.Mark Position Disabled PaperEnd Buffer Clear Disabled PrintHead Test Poweron Enabled USB Address Number 0 Print Density 0% Near paper end mode Disabled
KEYS FUNCTIONS	[KEY2] enter Printer setup [KEY1] skip Setup





5.2 Configuration by software

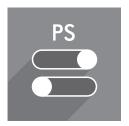
The setup parameters can be set by using the "PrinterSet" software tool available on www.custom4u.it. For a detailed description of the device operating parameters see the following paragraphs. To configure the device by software, proceed as follows:

1



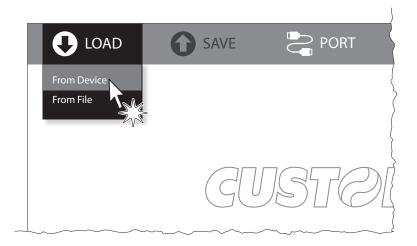
Connect the device to a PC directly (see paragraph 3.1), without using HUB devices.

2



Start "PrinterSet" software tool.

3

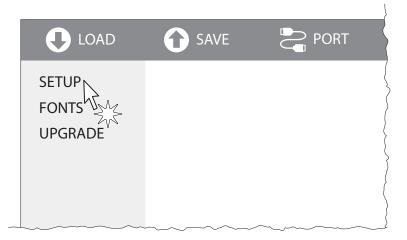


Click on LOAD > FROM DEVICE and select the device connected to the PC.



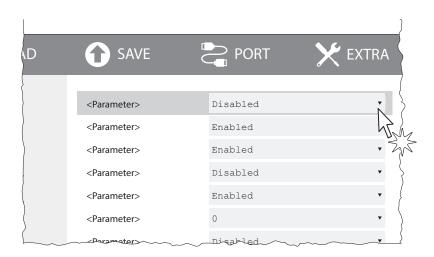


4



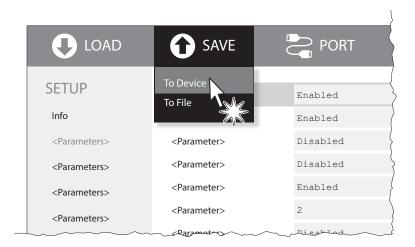
Click on SETUP to access the operating parameteres of the device to be configured.

5



Make the desired changes to the device operating parameters.

6



Click on SAVE > TO DEVICE to make the changes made effective.

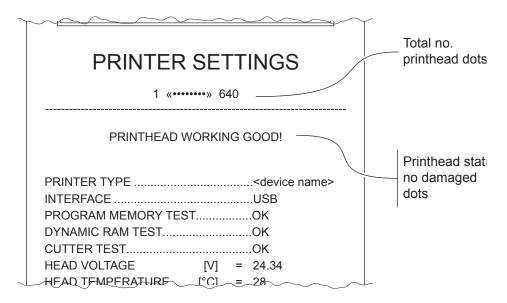
ATTENTION:

During saving, it is strongly discouraged to disconnect the communication cable or to remove the power supply of the PC or the device.

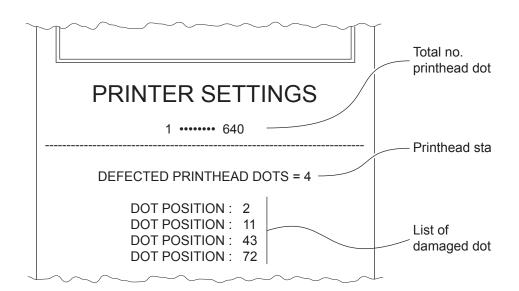


5.3 Printhead status

The device performs the printhead operating status when printing the setup report. The total number of dots is reported Are indicated the total dots number of the printhead and their status (see figure below).



In case of damaged dots, these are listed in the print out in according to their position on the heating line (see figure below).







5.4 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
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
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 made





5.5 **Communication parameters**

This device allows the configuration of the parameters listed in the following table. The parameters marked with the symbol $^{\rm D}$ are the default values.

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

USB ADDRESS NUMBER				the univocal identification of the USB device (in canected with the same PC):	ise of
	_		6 7		





5.6 Operation 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.

Available emulations for the device: CUSTOM/POS D MODE Printing mode: Normal D = enables printing in normal writing way Reverse = enables printing rotated 180 degrees
MODE Printing mode: Normal ^D = enables printing in normal writing way
Normal ^D = enables printing in normal writing way
Setting of the Carriage Return character:
Disabled D = Carriage Return disabled Enabled = Carriage Return enabled
S / INCH Font selection:
A = 11 cpi, B = 15 cpi A = 15 cpi, B = 20 cpi ^D
A = 20 cpi, B = 25 cpi
NOTE: CPI = Characters Per Inch
TYPE Setting of the font type:
International D = Enables the use of the 256 characters font tables Chinese GB18030 = Enables the use of the chinese extended font GB18030-2000 Korean CP949 = Enables the use of the korean font CP949
O / QUALITY Setting of printing speed and printing quality:
High Quality
Normal High Speed ^D
Threshold value (in percent) for the recognition of the presence of paper by the paper presence sensor:
30% 70%
40% ^D 80% 50% 90% 60%
REND 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

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.

NEAR PAPER END MODE

Low paper reading management:

Disabled D

= Low paper is not signaled.

Sensor Notch = The low paper sensor is used to signal the low paper.

The black mark sensor is used to signal the low paper. The black mark sensor signals the low paper after reading the end of roll

strip for 1 meter (see paragraph 8.5).

PRINT DENSITY

Adjusting the printing density:

-25% 0 ^D +25%

-12% +12%

The print quality is strongly influenced by the type of chemical treatment and the type of storage to which the thermal paper has been subjected, as well as by the weight of the same. It may therefore necessary to act on this parameter to obtain the desired print quality.





5.7 **Alignment 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.

NOTCH/B.MARK **POSITION**

Alignment management:

Disabled D = the black mark alignment is not performed = the black mark alignment is performed

BLACK MARK DISTANCE [mm] "Black mark distance" is the minimum distance (in millimetres) between the upper edge

of the ticket and the black mark (see chapter 6).

from -99.9 mm to 99.9 mm





5.8 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 device enters the self-test routine and print the setup report. The device remains in standby until a key is pressed or characters are received through the communication port (Hexadecimal dump mode). For each character sent, the ticket shows the hexadecimal value and the ASCII codes (if the characters are underlined, the receive buffer is full). Shown below is an example of a Hexadecimal dump:

	Н	EΧ	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





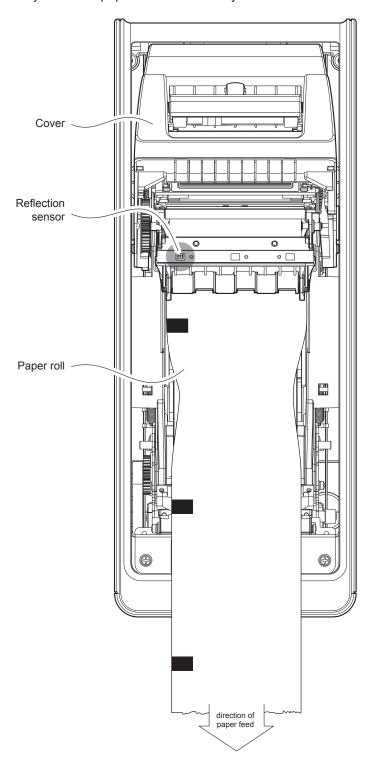




6 ALIGNMENT

Device is provided with a sensor for the use of alignment black mark in order to handle rolls of tickets with pre-printed fields and a fixed length.

The alignment sensor is a "reflection" sensor: 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.



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





6.1 Enable alignment

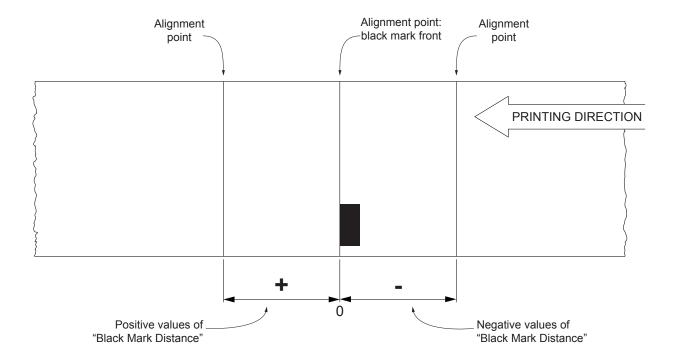
To guarantee the correct alignment, you must enable the parameter "Notch/B.Mark Position" during the configuration procedures (see chapter 5).

6.2 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". The "Black Mark Distance" can be set with the command 0x1D 0xE7 (see commands manual) or during the configuration procedure by software (see paragraph 5.2).

Referring to the front of the black mark, the value of "Black Mark Distance" value varies from -99.9 mm minimum and 99.9 mm maximum.

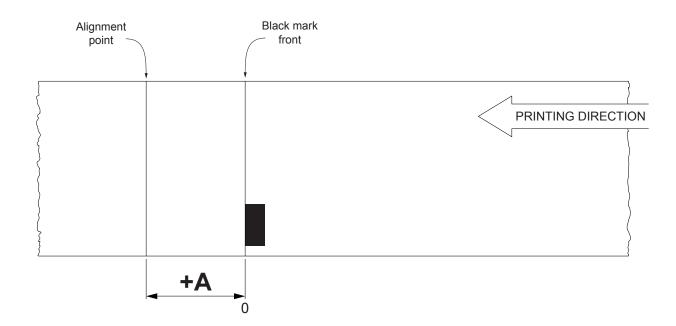
If the "Black Mark Distance" value is set to 0, the alignment point is set at the beginning of the black mark.



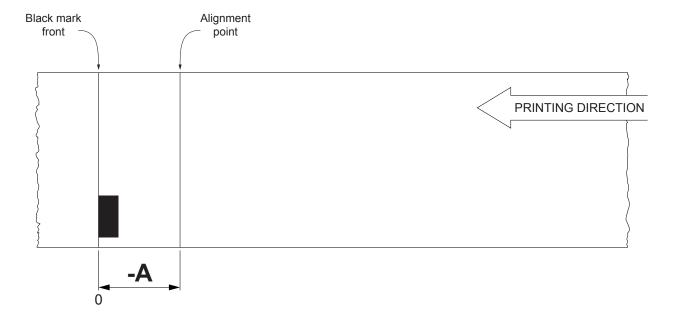




The following figure shows an example of paper with alignment point set by a positive value of "Black Mark Distance" ("Black Mark Distance" = + A):



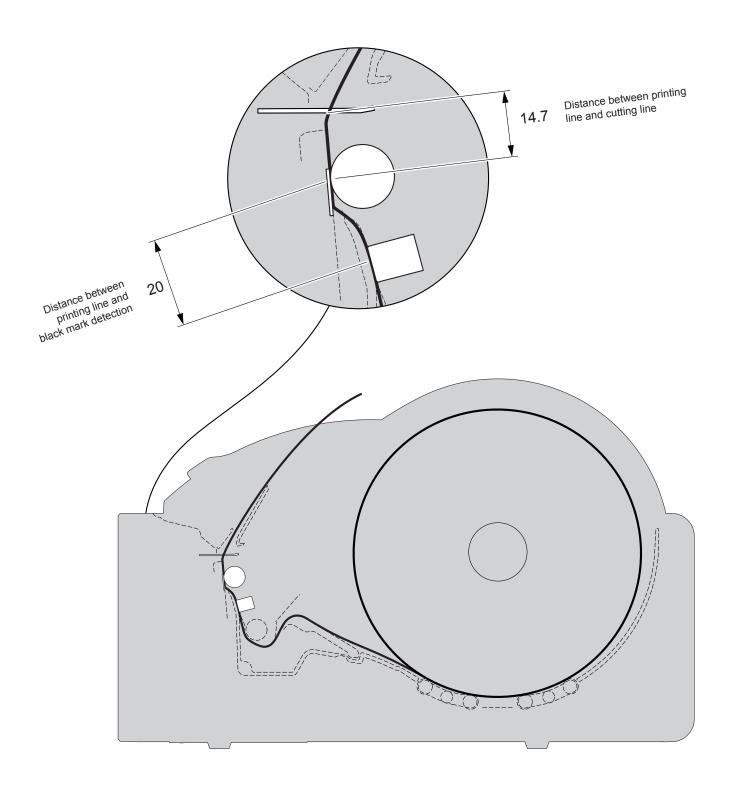
To set a negative value of the "Black Mark Distance" parameter is useful in cases where the alignment point refers to the black mark printed on the previous ticket or where the desired cutting line is placed in the middle of the alignment black mark. In the following images, the value of "Black Mark Distance" parameter is set to -A.







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

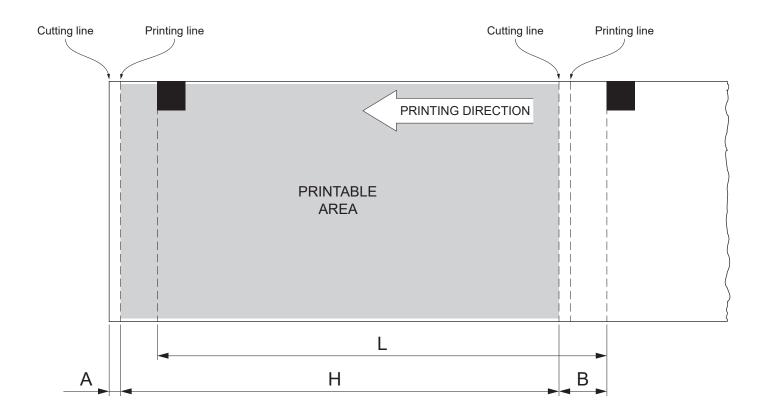




6.3 Printing area

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 properly calibrate the length of the printing area of ticket according to the interblack mark distance.

The following figure shows an example of tickets with "Black Mark Distance" set to 0.5 mm:



- A "Non-printable area" = "Distance between autocutter and beginning of printing area" = 8 mm
- B "Black Mark Distance" = 0.5 mm
- H Distance between the first and the last print line, called "Height of the printing area".
- L Distance between an edge of the black mark and the next one, called "Inter-black mark distance".

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

 $H + A \leq L$



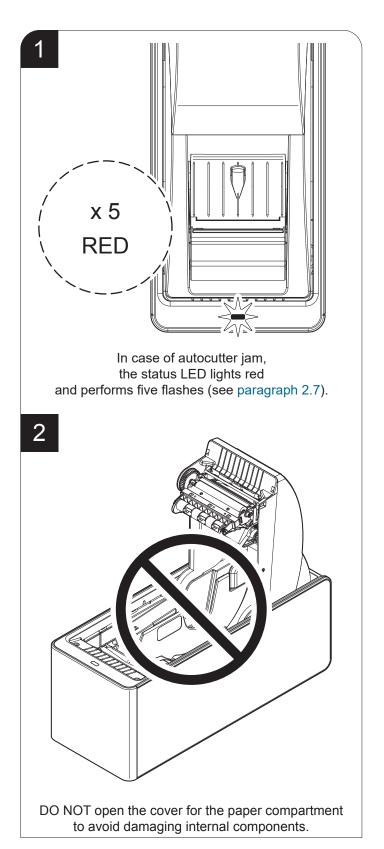


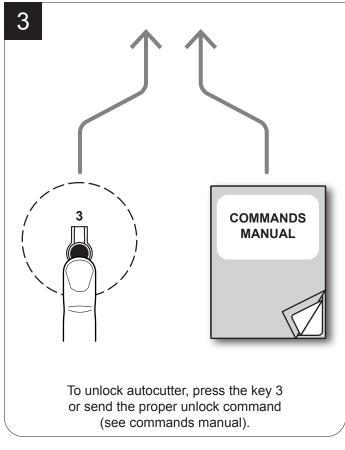
(+)

7 MAINTENANCE

7.1 Autocutter jam

In case of autocutter jam, proceed as follows.



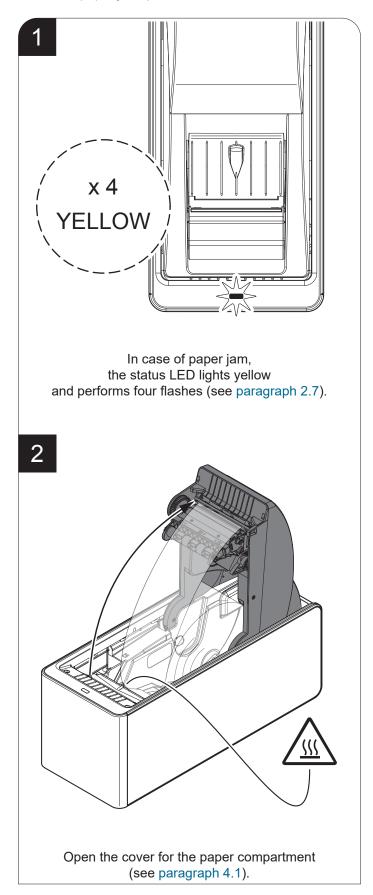






7.2 Paper jam

In case of paper jam, proceed as follows.

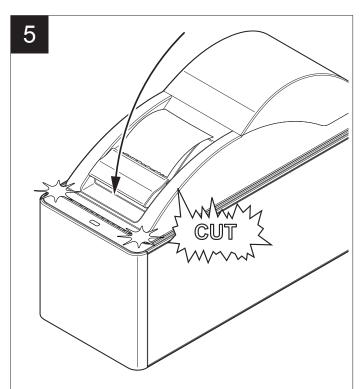






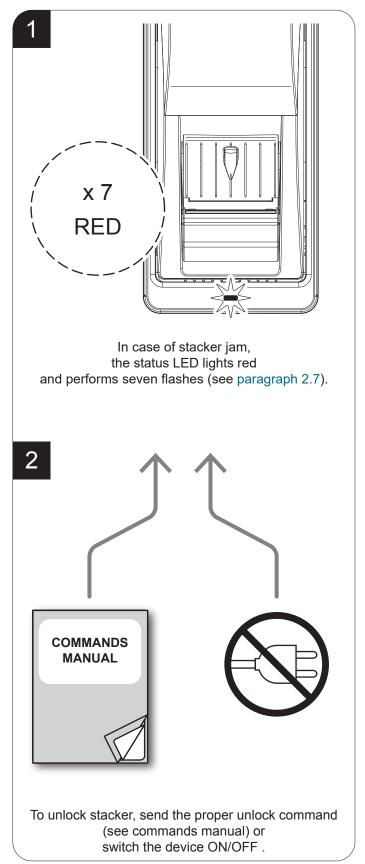
7.3 Stacker jam

In case of stacker jam, proceed as follows.



Close the paper compartment cover and wait until the damaged paper is automatically cut.









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

For specific procedures, see the following pages.

EVERY PAPER CHANGE	
Printhead	Use isopropyl alcohol
Platen roller	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	
Case	Use compressed air or a soft cloth



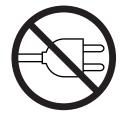


7.5 Cleaning

For periodic cleaning of the device, see the instructions below.

Printhead





Disconnect the power supply cable and open the device cover (see paragraph 4.1).

2

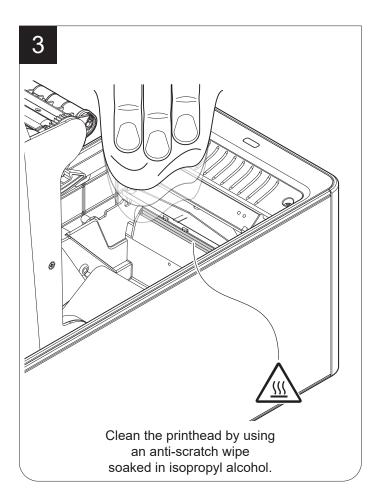






ATTENTION:

Do not use solvents or hard brushes. Do not let water or other liquids get inside the device.



Platen roller



1



Disconnect the power supply cable and open the device cover (see paragraph 4.1).

2

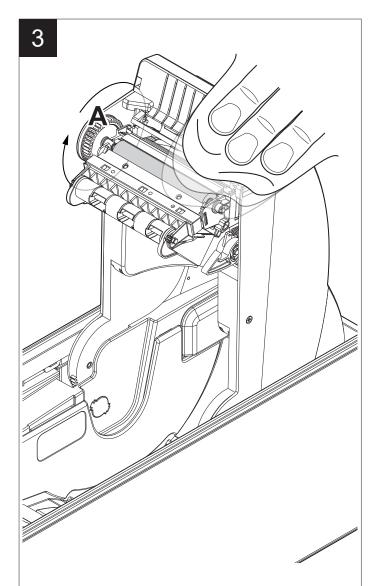






ATTENTION:

Do not use solvents or hard brushes. Do not let water or other liquids get inside the device.



Clean the platen roller by using an anti-scratch wipe soaked in isopropyl alcohol.

Make sure that you have performed a complete rotation of platen roll by rotating the gear A.

Autocutter



1



Disconnect the power supply cable and open the device cover (see paragraph 4.1).

2





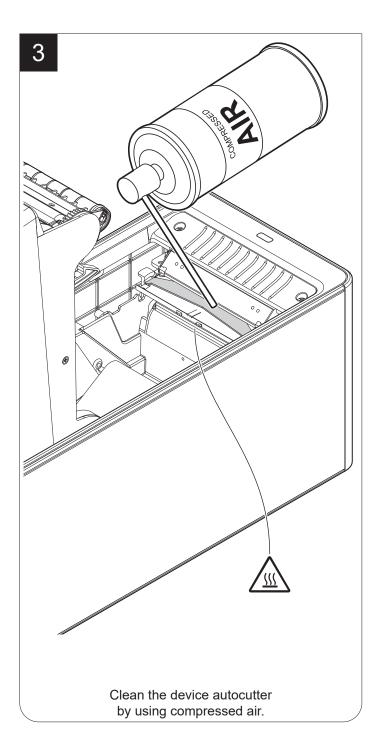


ATTENTION:

Do not use alcohol, solvents or hard brushes.

Do not let water or other liquids

get inside the device.



Paper path



1



Disconnect the power supply cable and open the device cover (see paragraph 4.1).

2

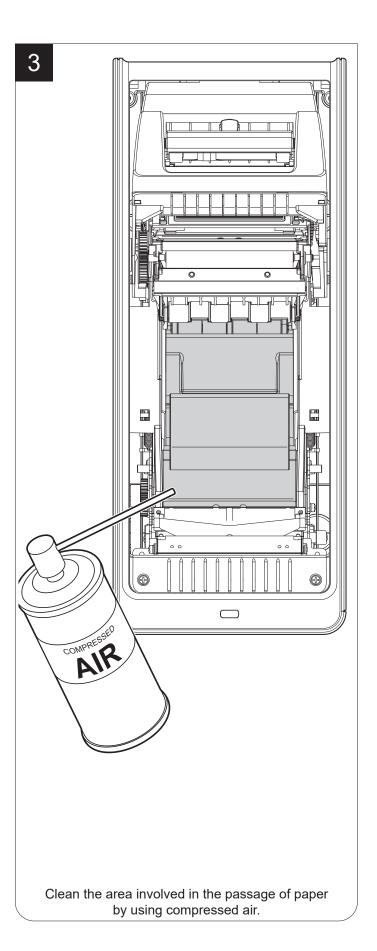


ATTENTION:

Do not use alcohol, solvents or hard brushes.

Do not let water or other liquids

get inside the device.







1



Disconnect the power supply cable.

2





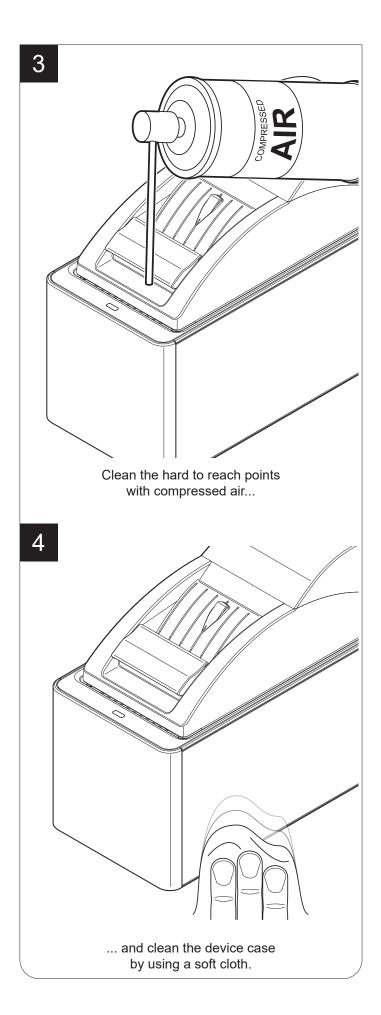


ATTENTION:

Do not use alcohol, solvents or hard brushes.

Do not let water or other liquids

get inside the device.



Sensors



1



Disconnect the power supply cable and open the device cover (see paragraph 4.1).

2

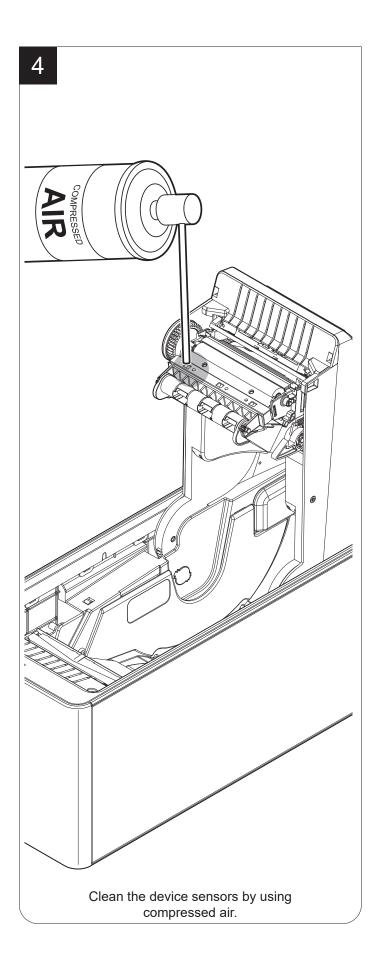


ATTENTION:
Do not use alcohol, solvents or hard brushes.
Do not let water or other liquids
get inside the device.

3 Clean the device sensors by using

compressed air.







•

7.6 Firmware upgrade

Firmware upgrade can be performed by using the "PrinterSet" software tool available on www.custom4u.it. To upgrade firmware, proceed as follows:

1



Login to the website www.custom4u.it, type in the product code of the device and download the latest firmware release available.

2



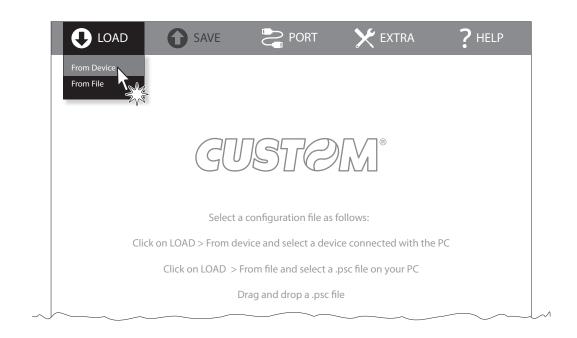
Connect the device to a PC directly (see paragraph 3.1), without using HUB devices.

3



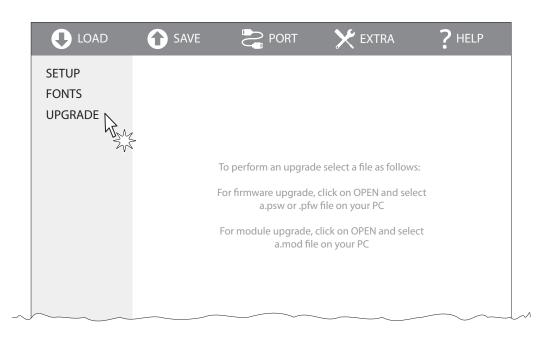
Start the "PrinterSet" software tool.

4



Click on LOAD > FROM DEVICE and select the device connected to the PC.

5



Click on UPGRADE and follow the instructions shown on the screen.

ATTENTION:

During saving, it is strongly discouraged to disconnect the communication cable or to remove the power supply of the PC or the device.







8 SPECIFICATION

8.1 Hardware specifications

GENERAL	
Sensors	Autocutter blade position, input paper presence, black mark detection, head temperature, paper jam, stacker position, low paper, paper compartment cover open
Emulations	CUSTOM/POS
Printing driver	Windows 7 (32/64 bit) Windows 8 (32/64 bit) Windows 8.1 (32/64 bit) Windows 10 (32/64 bit) Linux (32/64 bit) Android
INTERFACES	
USB port	480 Mbit/s (USB 2.0 high speed)
MEMORIES	
Receive buffer	16 kB
Flash memory	2 MB
RAM memory	8 MB
Graphic memory	Logos / fonts (TrueType) management, 8 MB
PRINTER	
Resolution	203 dpi (8 dot/mm)
Printing method	Thermal, fixed head
Head life (1)	
Abrasion resistance (2)	100 km (with recommended paper)
Pulse durability	100 M (12.5% duty cycle)
Printing width	80 mm





Printing mode	Normal, 90°, 180°, 270°
Printing format	Height/Width from 1 to 8, bold, reverse, underlined, italic
Character fonts	27 character code tables (see paragraph 8.6), 2 TrueType font ⁽³⁾ Extended chinese GB18030-2000 Korean PC949
Printable barcode	UPCA, UPCE, EAN13, EAN8, CODE39, ITF, CODABAR, CODE93, CODE128, CODE32 PDF417, DATAMATRIX, AZTEC, QRCODE, RSS
Printing speed (1) (4)	High quality = 150 mm/s Normal = 200 mm/s High speed = 254 mm/s
PAPER	
Type of paper	Thermal rolls (heat-sensitive side on outside of roll)
Paper width	82.5 mm + 0.00 / -0.38 mm
Paper weight	from 70 g/m² to 90 g/m²
Paper thickness	from 71 μm to 89 μm
Recommended paper	APPVION ALPHA PLUS 600-3.2 MITSUBISHI TF7067, TL3000
External roll diameter	max. 203 mm
External roll core diameter	25 mm
Paper end	Not attached to roll core
Core type	Cardboard or plastic
AUTOCUTTER	
Paper cut	Total cut
Estimated life (1)	> 2000000 cuts



DEVICE ELECTRICAL SPECIFICATIONS	
Power supply	24 Vdc ±10% (external power supply)
Medium consumption (4)	1.8 A
Standby consumption	0.05 A
ELECTRICAL SPECIFICATIONS POWER SUPPLY code 963GE020000071	
Power supply voltage	from 90 Vac to 264 Vac
Frequency	from 47 Hz to 63 Hz
Output	24 V, 2.5 A
Power	60 W
ENVIRONMENTAL CONDITIONS	
Operating temperature	from 0 °C to +45 °C
Relative humidity (RH)	from 5% to 95% (w/o condensation)
Storage temperature	from -20 °C to +60 °C
Storage relative humidity (RH)	from 5% to 95% (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 the device. It is possible to install additional TrueType fonts.
- (4): Referred to a standard CUSTOM receipt (L = 10 cm, Density = 12.5% dots on).





8.2 Character specifications

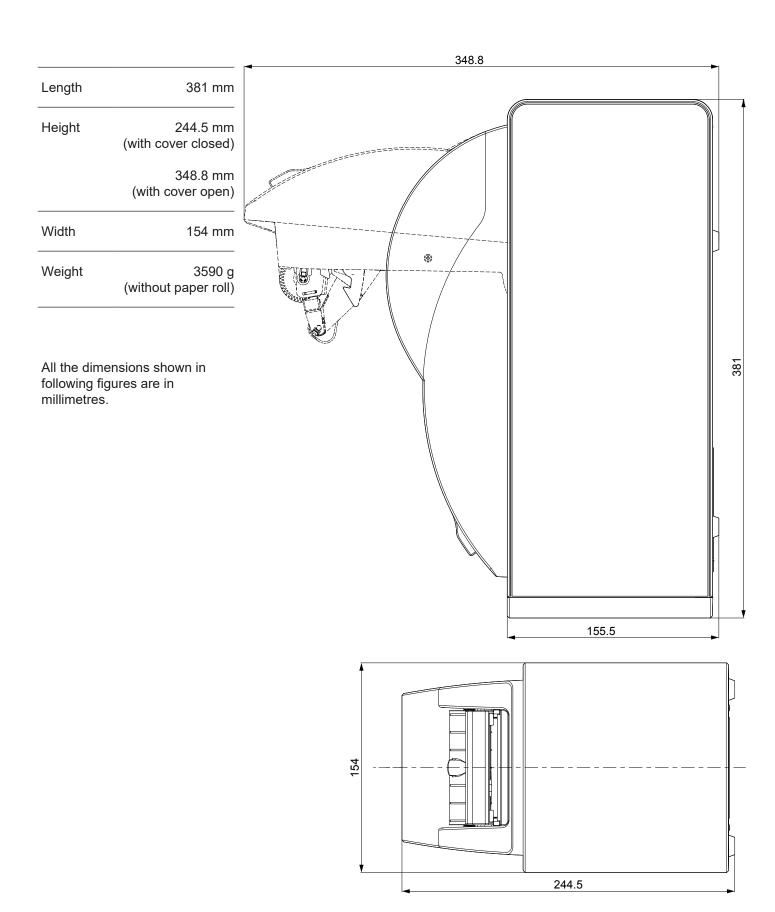
Character set		3	
Character density	11 cpi	15 срі	20 cpi
Number of columns	35	45	64
Character / s	3010	3870	5418
Lines / s	84	84	84
Characters (L x H mm) - Normal	2.25 x 3	1.75 x 3	1.25 x 3

NOTE: Theoretical values.



(+)

8.3 Device dimensions







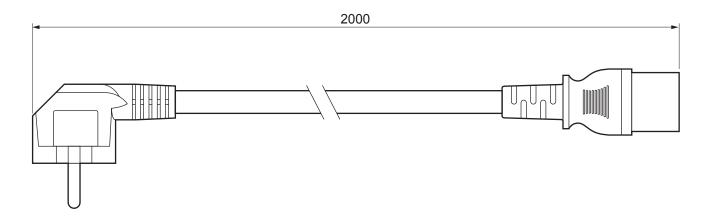
8.4 Power supply and power cord dimensions

The following table shows the dimensions of the power supply and power cord supplied with the device:

POWER CORD code 26100000000311	
Length	2000 mm
POWER SUPPLY code 963GE020000071	
Length	130 ± 1 mm
Height	36 ± 1 mm
Width	57 ± 1 mm

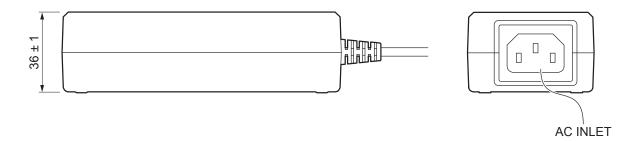
All the dimensions shown in following figures are in millimetres.

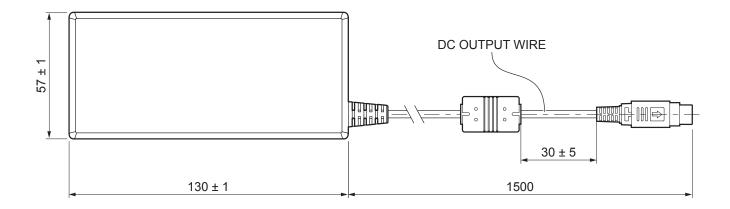
POWER CORD code 2610000000311

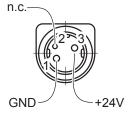




POWER SUPPLY code 963GE020000071







(GUSTAN)®

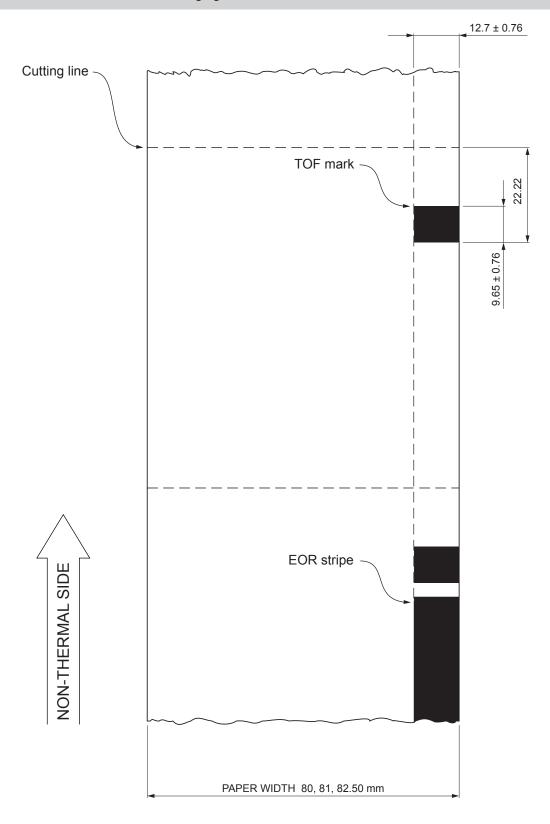


8.5 Paper specification

Paper with black mark

The following image shows an example of black mark placement on the non-thermal side of paper. For more information about the use of paper with black mark see chapter 6.

NOTE: All the dimensions shown in following figures are in millimetres.







8.6 Character sets in CUSTOM/POS emulation

The device has 3 internal fonts with a width of 11, 15, 20 cpi, which may be related one of the coding tables provided on the device.

To know the coding tables actually present on the device, you need to print the font test (see paragraph 2.5).

You can set font and coding table by using the commands (see the commands manual of the device). The selection of the font width is available also in the setup procedure by properly setting the parameter "Chars/inch" (see paragraph 5.6).

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

<codetable></codetable>		Coding table	
0	PC437 - U.S.A., Standard Europe		
1	Katakana		
2	PC850 - Multilingual		
3	PC860 - Portuguese		
4	PC863 - Canadian/French		
5	PC865 - Nordic		
6	VISCII - Vietnamese Standard Code		
11	PC851 - Greek		on request
12	PC853 - Turkish		on request
13	PC857 - Turkish		
14	PC737 - Greek		
15	ISO8859-7 - Greek		on request
16	WPC1252 - Scandinavian		
17	PC866 - Cyrillic 2		
18	PC852 - Latin 2		
19	PC858 for Euro symbol in position 213		
20	KU42 - Thai		
21	TIS11 - Thai		on request
26	TIS18 - Thai		on request
30	TCVN_3 - Vietnamese		on request
31	TCVN_3 - Vietnamese		on request
32	PC720 - Arabic		on request





<codetable></codetable>		Coding table	
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 - Farsi		
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 - Kazakh		on request
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.

To store a TrueType font in the device use the command 0x1D 0xE9 (refer to the commands manual).







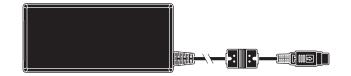


9 ACCESSORIES

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

963GE020000071

POWER SUPPLY (for technical specifications, see paragraph 8.1)



26100000000311

POWER CORD SCHUKO PLUG length = 2 m (see paragraph 8.4)









10 TECHNICAL SERVICE

In case of failure, contact the technical service accessing the website www.custom4u.it and using the support tools on the homepage. It is advisable to keep the identification data of the product at hand.

The product code, the serial number and the hardware release number can be found on the product label (see paragraph 2.4). The firmware release number (SCODE) can be found:

- on the setup report (see paragraph 5.1)
- connecting the device to a PC and starting the "PrinterSet" tool (see paragraph 5.2)







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