

USER MANUAL

SM600U

CUSTOM[®]

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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.
- 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.
- Before any type of work is done on the machine, disconnect the power supply.
- 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 look directly into LED beam or reflector. Do not look directly into LED beam from a mirrored surface, it may cause pain.
- Unplug or turn off the device be sure to stop the LED beam before cleaning the portion of the device where LED light is generated and received (emitter/receiver). Otherwise, exposure may cause pain.



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.

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.



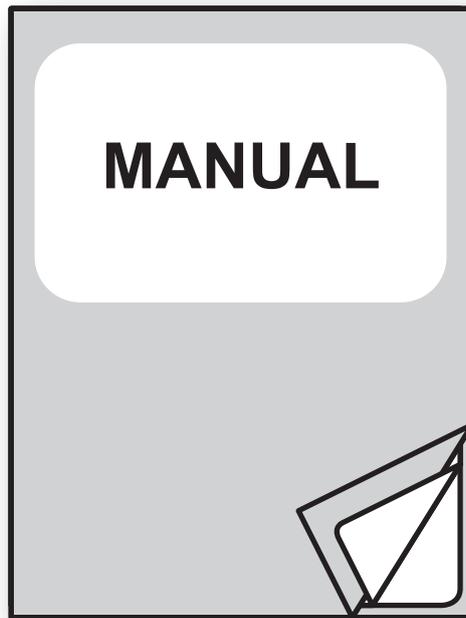
GUIDELINES FOR THE DISPOSAL OF THE PRODUCT

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.



The format used for this manual improves use of natural resources reducing the quantity of necessary paper to print this copy.



For details on the commands,
refer to the manual with code **0577200M000063**

For details on the configuration,
refer to the manual with code **0577200M000064**

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1 READABLE SYMBOLOGIES

1.1 1D symbologies

1D SYMBOLOGIES	READABLE	DEFAULT ENABLE
UPC-A	v	v
UPC-B	v	v
EAN-8/JAN-8	v	v
EAN-13/JAN-13	v	v
Code 39	v	v
Code 128	v	v
Codabar/NW7	v	v
Interleaved 25	v	v
Industrial 25	v	
Matrix 25	v	
Code 93	v	
China Post	v	
Code 11	v	
MSI/Plessey	v	
Telepen	v	
GS1 Databar Omni-directional	v	
GS1 Databar Limited	v	
GS1 Databar Expanded	v	



1.2 2D symbologies

2D SYMBOLOGIES	READABLE	DEFAULT ENABLE
Aztec	v	
Data Matrix	v	v
PDF 417	v	v
Micro PDF 417	v	
QR Code	v	v
Micro QR Code	v	
GM Code	v	
Han Xin Code	v	
Dot Code	v	



2 FIELD OF DEPTH

BARCODE	DEPTH OF FIELD
3mil Code39	from 40 mm to 60 mm
4mil Code39	from 35 mm to 85 mm
5mil Code39	from 35 mm to 95 mm
10mil Code39	from 25 mm to 150 mm
20mil Code39	from 20 mm to 200 mm
20mil QR Code	from 20 mm to 120 mm
20mil PDF417	from 20 mm to 90 mm
20mil Data Matrix	from 20 mm to 160 mm

- The test is under ambient light from 700 to 800 Lux.
- Near distance is Field of View (FOV) limited by barcode's size.



3 PINOUT



USB INTERFACE
Female USB type A connector

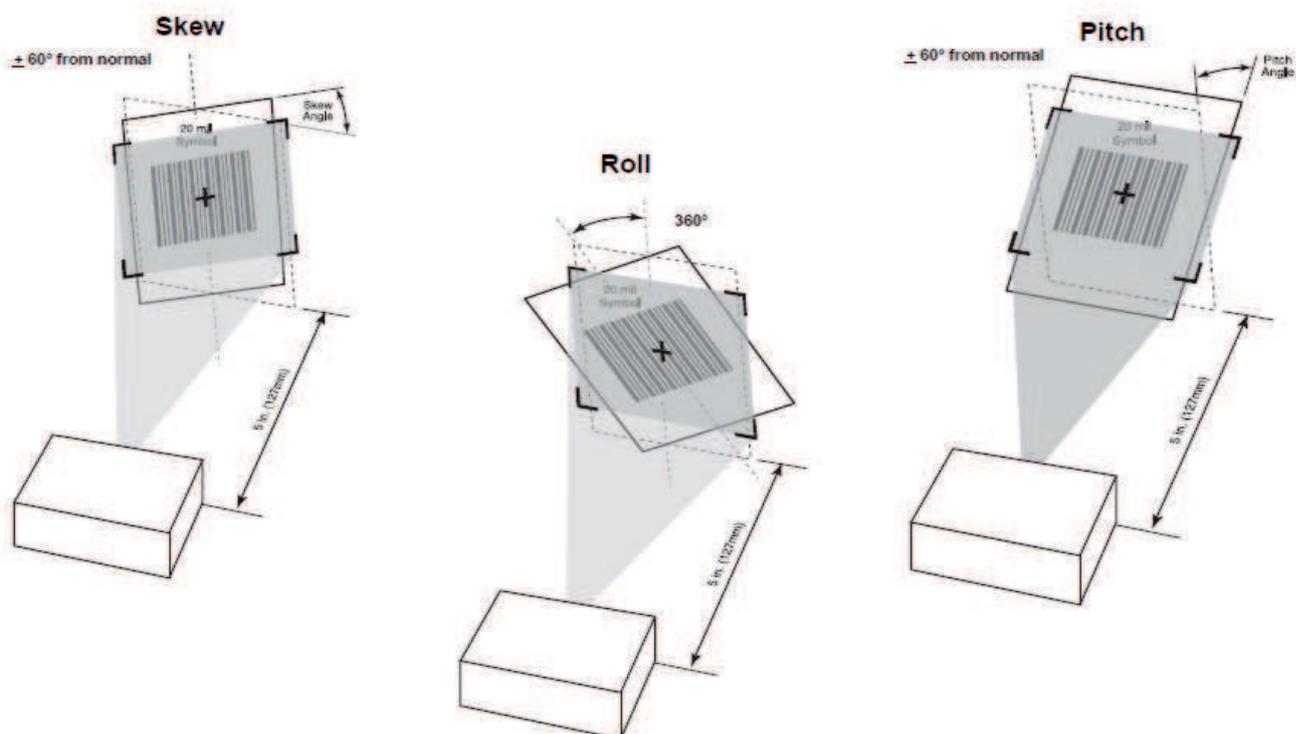
	1	VBUS-A	(in)
	2	HD-	
	3	HD+	
	4	GND	
		Frame GND	



4 SPECIFICATION

4.1 Hardware specifications

GENERAL	
Light source	Visible White LED
Indicators	Beep and LED
Field of view	horizontal: 55° vertical: 35°
Scan rate	60 fps
Field of depth	200mm@20mil/0.5mm, PCS90%
Print contrast ratio	PCS30%@5mil/0.127mm
Resolution	1280 (H) x 800 (V) pixels 3.0 mil (Code 39), 8 mil (QR Code)
Pitch angle	±60°(from front to back)
Skew tolerance	±60°(from plane parallel to symbol(side- to-side))
Roll	360°



Scanner head can be forward (Max 90°) and backward (Max 90°) tilting adjusted in a total 180° range to accommodate to your application need.



ELECTRICAL SPECIFICATIONS

Interface	USB
Supply voltage	5 Vdc \pm 5%
Current drawn	
Standby consumption	90 mA \pm 10%
Typical consumption	310 mA \pm 10%

RELIABILITY

Life time	50000 hours
Thermal shock	high temperature 70 °C, 48 hours low temperature -20 °C, 48 hours
Cable bending test	25000 times minimum (30 times/min @ 500g/90°)
Drop Resistance	47.24 inches(120cm) drop on concrete surface
Electro-Static Discharge	Both contact and air at up to 20KV

ENVIRONMENTAL CONDITIONS

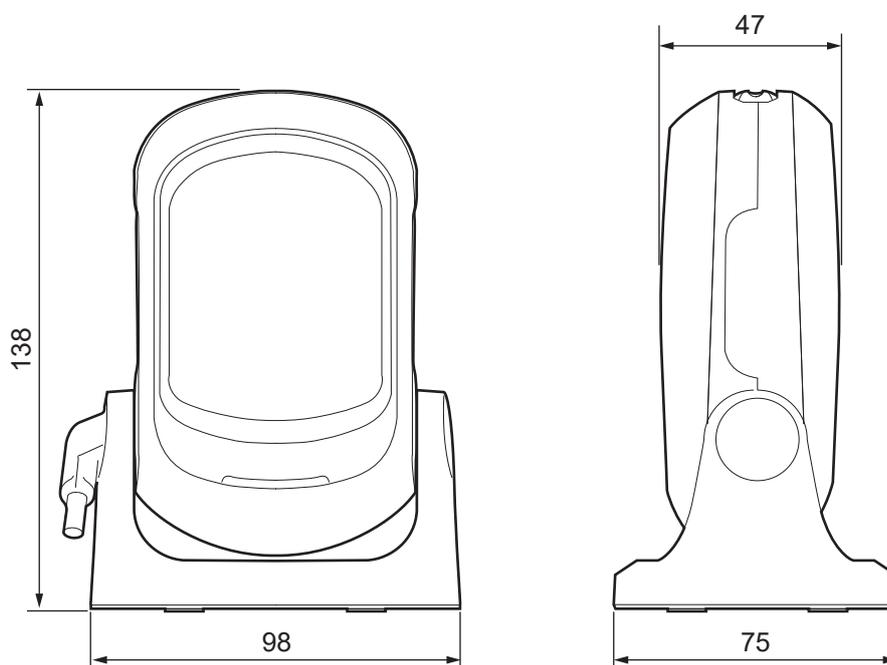
Operating temperature	from 0 °C to 50 °C (from 32 °F to 122 °F)
Storage temperature	from -20 °C to 70 °C (from -4 °F to 158 °F)
Relative humidity (RH)	from 20% to 95% (without condensation)



4.2 Device dimensions

All the dimensions shown in following figures are in millimetres.

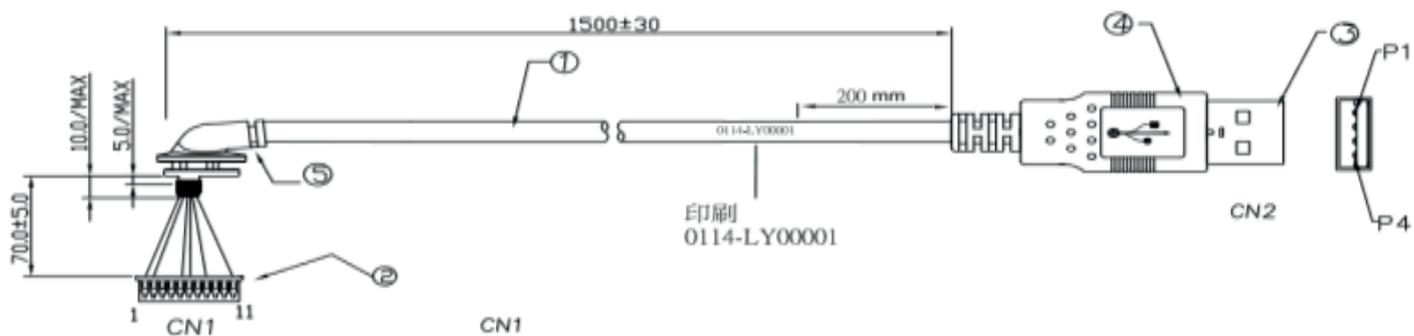
Length	75 mm
Height	138 mm
Width	98 mm
Weight	315 g





4.3 USB power cord

All the dimensions shown in following figures are in millimetres.

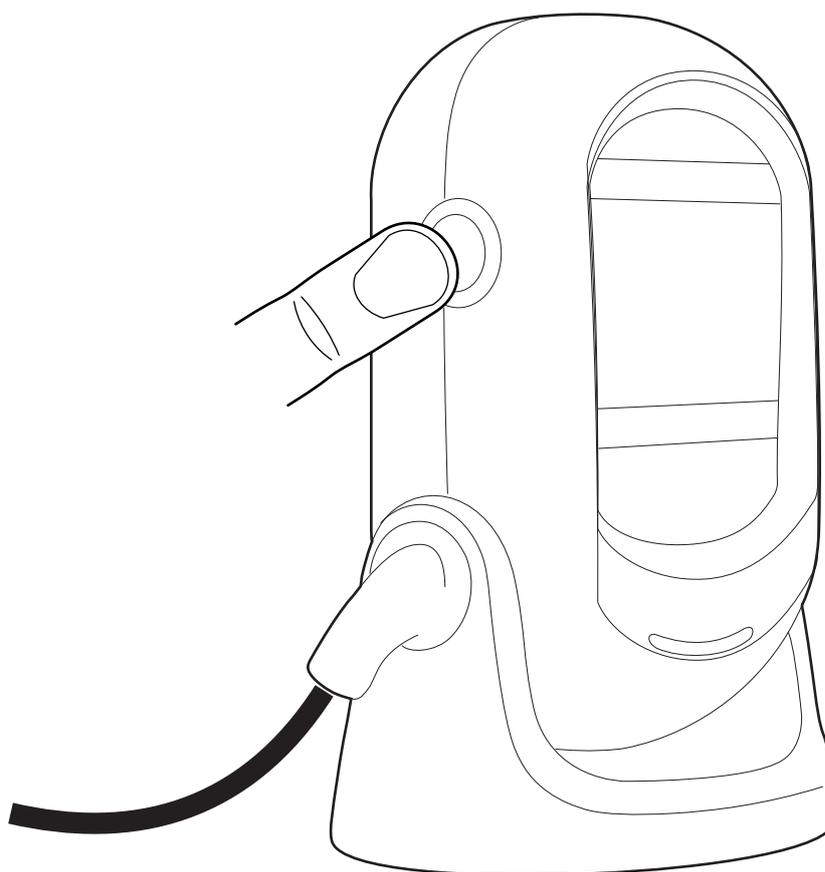


4.4 Status messages

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

Auto read mode at startup ,touch the button to switch to trigger mode 3 seconds without scanning, automatic reply auto read mode.

STATUS LED		DESCRIPTION
ORANGE	ON	AUTO READ MODE
BLUE	BLINK 1 TIME	SUCCEED SCAN
BLUE	ON	TRIGGER MODE
ORANGE	BLINK 1 TIME	SUCCEED SCAN



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