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iDPRT Bluetooth Label Printer SP320 User Guide

Let Things Better Faster and Vital

SP320

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Contents

Statement

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Printed in China
1.0 Version

Warnings

 This must be complied with in order to avoid damage to the human body and the equipment.

 This shows the important information and tips for the printer operation.

Attention

Due to continuous improvement of the products, the specifications, accessories, and procedures described in the manual are based on actual machines. And it may be changed
without prior notice.

Important Safety Instructions

Before using the printer, please read carefully the following safety consideration in case of bodily injury or equipment damage.

Safety Warnings

 The print head will become very hot during printing, please do not touch the printhead and peripheral parts during printing and printing just finished.

 Please do not touch the printhead and connectors, in case that static damages the printer head.

Instructions

⚠️ **Warnings:** Violating following instructions may cause serious injury or death.

1) Do not plug several products in one porous power outlet.

- This may cause over-heat and a fire.
- If the plug is wet or dirty, dry or wipes it before using.
- If the plug does not fit perfectly to the outlet, do not plugin.
- Be sure to use only standardized porous power outlets.

2) You must use the supplied adapter.

- It is dangerous to use other adapters.

3) Do not pull the cable by pulling.

- This may damage the cable or cause a fire.

4) Do not plug in or unplug with your wet hands.

- You may be electrocuted.

5) Do not bend the cable by force or leave it under any heavy object.

- A damaged cable may cause a fire.

Note: Violating following instructions may cause slight damage to the appliance.

1) If you observe a strange smoke, odor, or noise from the printer, unplug it before taking following measures.

- Switch off the printer and unplug the set from the mains.
- After the disappearance of the smoke, call your dealer to repair it.

2) Install the printer on a stable surface.

- If the printer falls down, it may be broken and you may hurt yourself.

3) Use the approved accessories only and do not try to disassemble, repair, or remodel it by yourself.

- Call your dealer when you need these services.
- Do not touch the blade of the auto-cutter.
- If this happened, switch off and unplug the printer before calling your dealer.
  Do not let water or other foreign objects drop into the printer.

5) Do not use the printer when it is out of order. This may cause a fire or electrocution.

- Switch off and unplug the printer before calling your dealer.

6) Other considerations:

- Place the printer on a solid or base so that it cannot fall.
- Leave enough space around the printer for operation and maintenance.
- Keep all liquids away from the printer.
- Do not expose the printer to high temperatures, direct sunlight, or dust.
- Ensure the printer is connected to a socket with the correct mains voltage.
- Switch off the printer POWER supply when it's not in use for a long time.
- To ensure the printing quality and reliability, suggest using the same quality or recommend a paper supplier.
- Pls. switch off the POWER supply when connecting/disconnecting all the ports or it will cause damage to the printer control circuit.
- Never carry out maintenance or repair work yourself. Always contact a qualified Service Technician.
- Keep this User Manual in a place that is always easily accessible.

Other Precautions

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WEEE (Waste Electrical and Electric Equipment)

This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate marked items from other types of waste and recycle them responsibly to promote the sustained reuse of material resources. Household users should contact either the retailer where they purchased this product or their local government office for details of where and how they can conduct environmentally safe recycling of such items. Commercial users should contact their suppliers and check the terms and conditions of purchase contracts. This product should not be combined with other commercial waste for disposal.
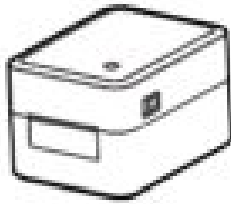
Caution: This is a Class A product. In a domestic environment, this product may cause radio interference in which the user may be required to take adequate measures.

Chapter 1 Introduction

1.1 Packing List

1. Unpack the printer and keep the packing materials in case you need to ship the printer in the future.
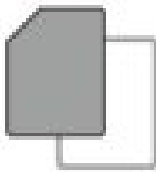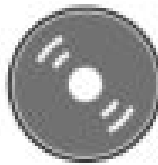2. Any damages exist, please contact the iDPRT team.

Printer   USB Cable   Power Cord
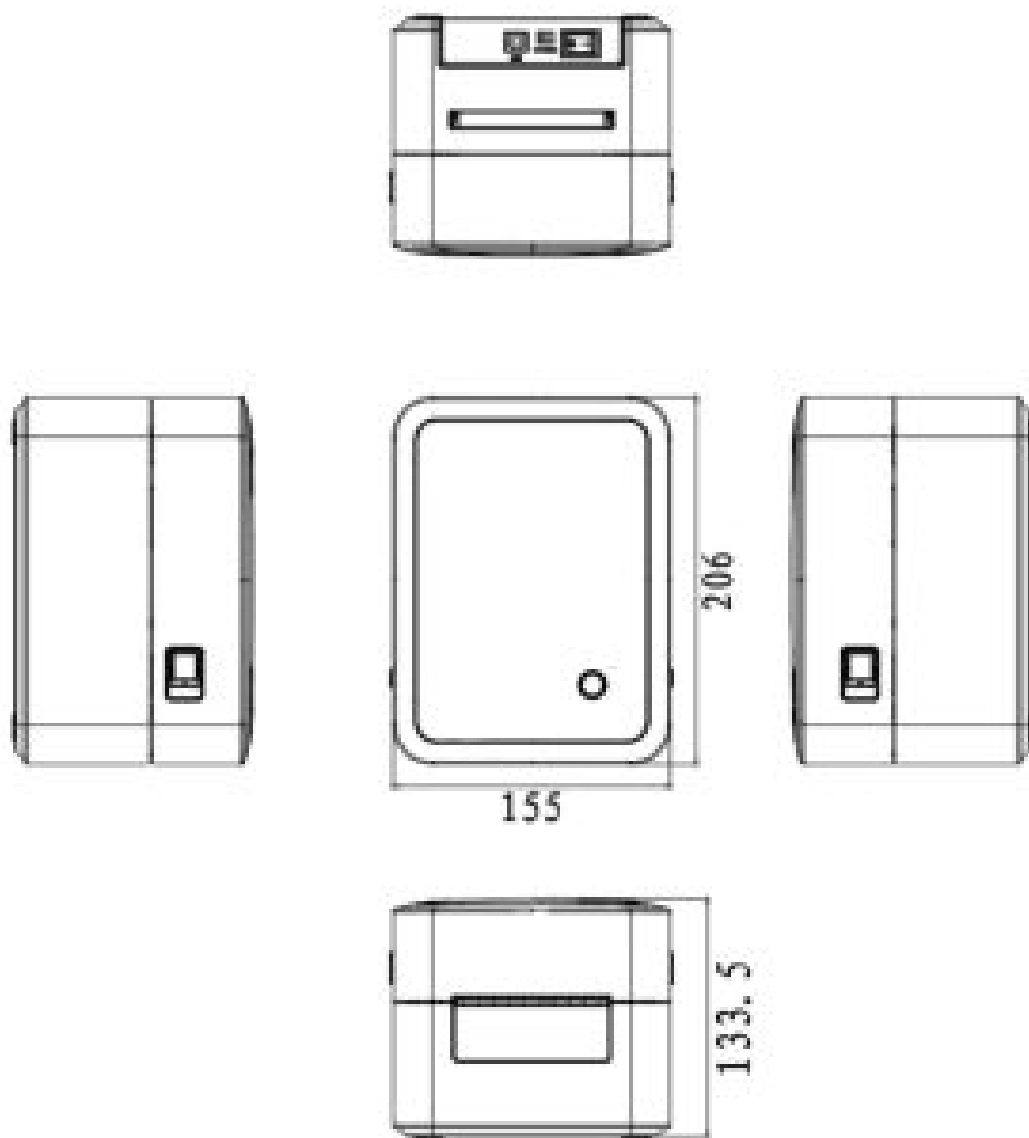
Quick Start Guide   CD   Thermal Label

⚠️ **Note:** The packing items are based on the order.

1.2 Dimension

206

155

133.5

Chapter 2 Specifications

Items		Parameter
Printing	Printing method	Direct thermal
	Resolution	203dpi(8dots/mm)
	Printing speed	4 levels, Max.180mm/s
	Printing width	Max.3.54 inches (80mm)
	Printing length	25mm-300mm
Processor		32bits RISC CPU
Memory	RAM	≥2MB
	Flash	≥2MB

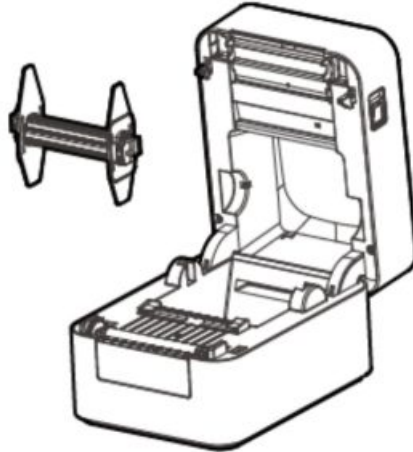| Detection	Sensors	Paper shortage detection, black-marking detection, cover-opening detection, paper exit detection
Media	Types	Receipt, Label (Folded paper or roll paper, die-cut)
	Width	50mm – 80mm
	Thickness	0.003 inch (80um) – 0.007 inch (220um)
	Label roll diameter	100mm
	Core diameter	1 inch (25.4mm), 1.5 inch (38.1mm)
Programming Language		CPCL
Software	Label design	iDPRT Bartender Ultralite, L-Print
	Driver	Windows 2000/XP/Vista/7/8/8.1/10
Resident Fonts	Bitmap font	Chinse: GBK FontA 12x12dots, FontB 24x24dots English: ASCII 8×16, 12×24dots
Barcode	1D	Code 39, Code 93, Code 128UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E
	2D	PDF-417, QR code
Communication Interfaces		USB, Bluetooth Module 4.0 or above/BLE
Power Adapter	Input	AC 220V, 50/60Hz
	Output	DC 24V/1.5A
Environment	Operation	41℉- 104℉(5℃-40℃), 30%-85%, non-condensing
	Storage	-4℉- 122℉(-20℃-50℃), 10%-90%, non-condensing
Physical Characteristics	Dimension	206*155*134mm (L*W*H)
	Weight	1.04kg
Options & Accessories		External paper roll bracket, eternal fan-fold bracket,
Agency Approvals		CCC

Chapter 3 Installation & Usage

3.1 Media Loading
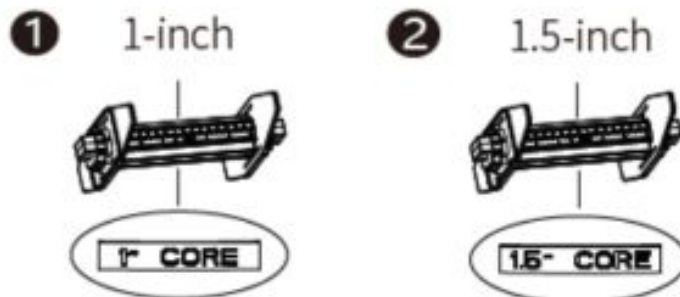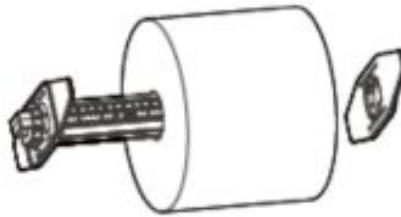3.1.1 Paper Roll Loading

1. Push the cover open levers on both sides with both hands to open the top cover upward.
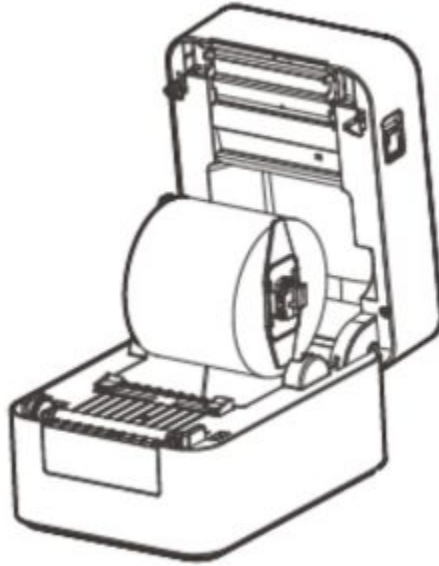
2. Take out the paper holder.

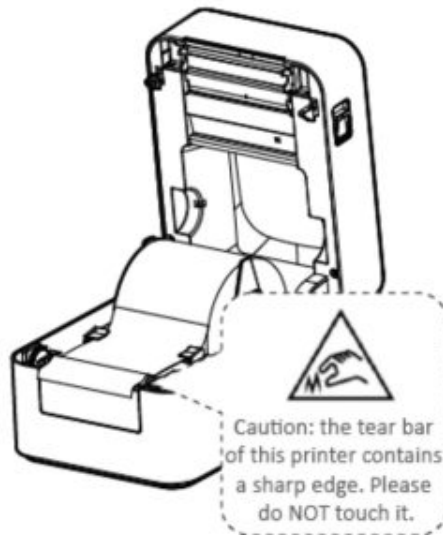3. Load the paper roll to the paper holder according to the following appropriate size.

❶ 1-inch   ❷ 1.5-inch

1" CORE   1.5" CORE

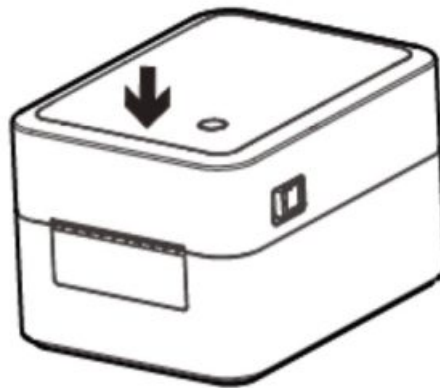4. Load the paper holder back to the printer.

⚠️ **Note:** When using the 1-inch paper roll, the font of "1-CORE" should be upward; when using the 1.5-inch paper roll, the axis should be turned 180 degrees and the font of "1.5-CORE" should be upward.

5. Pull out the paper roll, open the paper movable guides to the max-width, and pass the paper through the paper movable guides, then adjust the paper movable guides to suit the paper width.

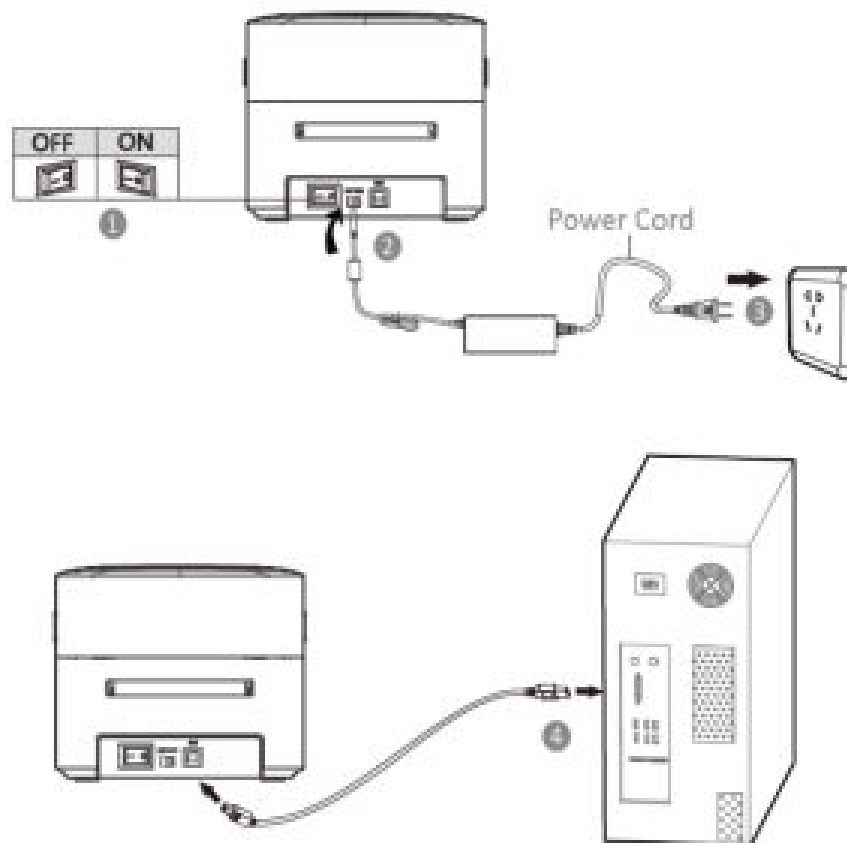Caution: the tear bar of this printer contains a sharp edge. Please do NOT touch it.

6. Press down the printer cover.

3.2 Power/USB Connection

1. Make sure the printer's power switch is in the "off" position.
2. Connect the power cord to the printer.

3. Connect the other end of the power cord to the outlet.

4. Connect the USB cable to the printer and PC.

3.3 Operation Panel
3.3.1 Button Operation
Power On

When power off, turn on the power switch at the back of the printer, then the indicator will light on.
Power Off

When power is on, turn off the power switch at the back of the printer, then the indicator will light the off.
FEED Button

For more information, please refer to the 3.4.2 FEED Button.

Printing Pause

In the printing state, short press the "Pause" button, then the printing stops.

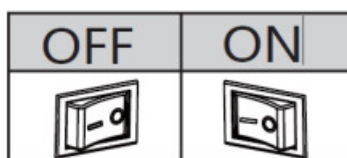In the pause state, short press the "Pause" button, then the printing starts.
3.3.2 Indicator

Color	Action	Indication state
Green	Always on	Printing
	Flash rapidly	Receiving data
	Flash Slowly	Printing pause
Blue	Always on	The printer is ready
Purple	Always on	The print head is overheat
Red	Always on	The cover is not closed
	Flash rapidly	Label learning is abnormal
	Flash Slowly	Paper out
Orange	Always on	The printer is not ready yet
	Flash slowly	Paper jam, the paper position is abnormal

3.4 Basic Operation
3.4.1 Power on/power off
Press "O" to power off the printer. Press "l" to power on the printer.

3.4.2 Feed Button

- **Switch mode**

  When the printer is in the ready status, press and hold the feed button until the blue indicator light or orange indicator light flashes twice, then release the button and the printer will start the black mark label learning. The label and black mark label can be switched to each other.

- **Print the self-test page**

  When the printer is in the ready status, press and hold the feed button until the blue indicator light flashes once, then release the button and the printer will print a self-test page.
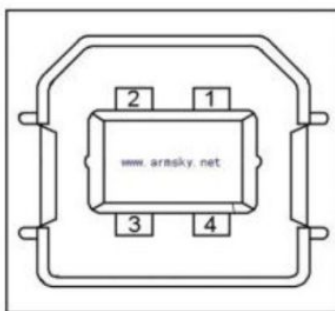
- **Label calibration/learning**

  When the printer is in the ready status, press and hold the feed button until the blue indicator light flashes twice, then release the button and the printer will start label learning.

- **Pause printing**

  When the printer is in printing, short press the feed button, and the green indicator will flash slowly, and the printer will be in the pause status. After a short press again, the printer returns to the ready status, and the green indicator will always be on.

Chapter 4 USB Interface

PIN	Signal Name
1	VBUS
2	D-
3	D+
4	GND

Chapter 5 Clean the Printer

Adhesives and coatings of the media can transfer onto the printer parts over time along the media path including the thermal print head and media sensor. This build-up can accumulate dust and debris. Failure to clean the print head, media path, and media sensor could result in print quality, worst more of inadvertent loss off labels, label jams, and possible damage to the printer.

⚠️ **Caution**

1) Make sure to turn off the printer prior to cleaning.
2) As the print head gets hot during printing if intending to clean the print head, turn the printer off and wait approximately 2~3 minutes before commencement.
3) When cleaning the print head, take care not to touch the heated portion of the print head, prevent damage to print head due to static electricity, etc.
4) Take care not to allow the print head to become scratched and/or damaged in any way.

5.1 Cleaning Print Head

1) Open the Printer Cover and then use the cleaning pen (or cotton stick with diluted alcohol, alcohol, or isopropanol) to clean the head in the direction from the center of the head to two sides.
2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.

5.2 Cleaning Roller or Paper Path

1) Open the printer cover and then remove the paper.
2) Remove any dust or foreign substances using a dry cloth or cotton swab.
3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
4) After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried.

⚠️ **Note:** Clean the parts when print's quality or label detection degrades.

Documents / Resources

IDPRT *Let Things Better* *Faster and Vital* **SP320** **User Manual** Website: www.idprt.com Call center: 4001080988 After Service: https://idprt.aftersales.top Customer Service Email: support@idprt.com	**iDPRT Bluetooth Label Printer SP320** [pdf] User Guide iDPRT, Bluetooth, Label Printer, SP320