

**Aadharshila Mobility Solutions Pvt. Ltd.**

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Electronic City, Sector 18

Gurugram – 122015

## **BLUPRINTS VRIDDHI L1 - USER GUIDE**

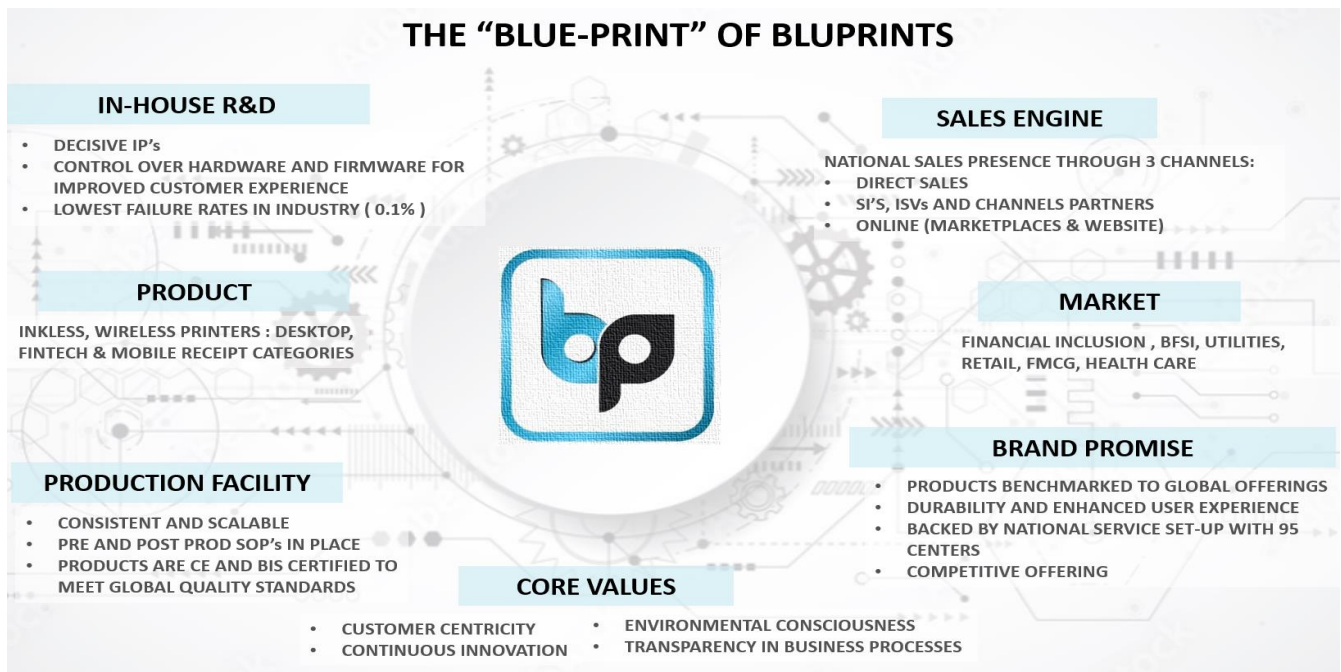
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## Aadharshila Mobility Solutions Pvt Ltd. (AMSPL)

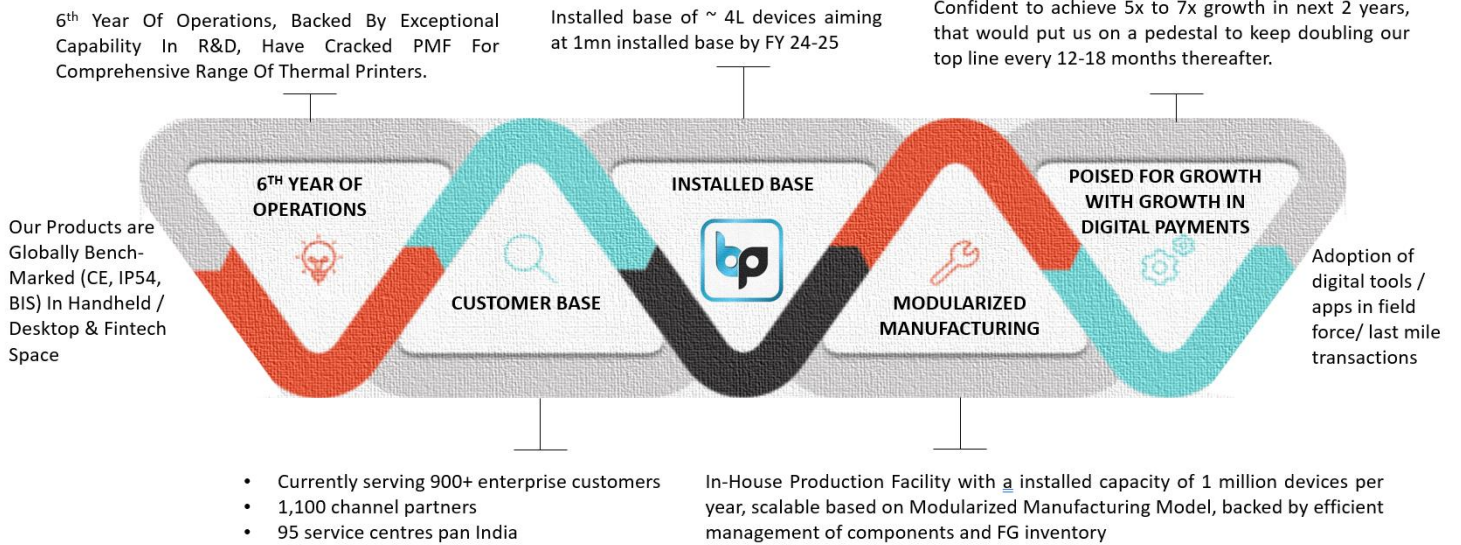
**BluPrints** operates under the brand name of **AMSPL**, embodying a commitment to agility and continuous innovation in product design. Our mission is to empower businesses and society with world-class indigenous technology platforms and tools, enhancing customer satisfaction and simplifying everyday lives.

**As an R&D-driven company**, **BluPrints** envisions providing innovative, agile, and customized products to meet our customers' diverse needs. We specialize in end-to-end design, development, and manufacturing of high-quality customized embedded hardware solutions. Our offerings ensure world-class quality with a competitive cost advantage.

**BluPrints** stands at the forefront of redefining possibilities, setting benchmarks in customized technology solutions that inspire progress and elevate standards across global markets.



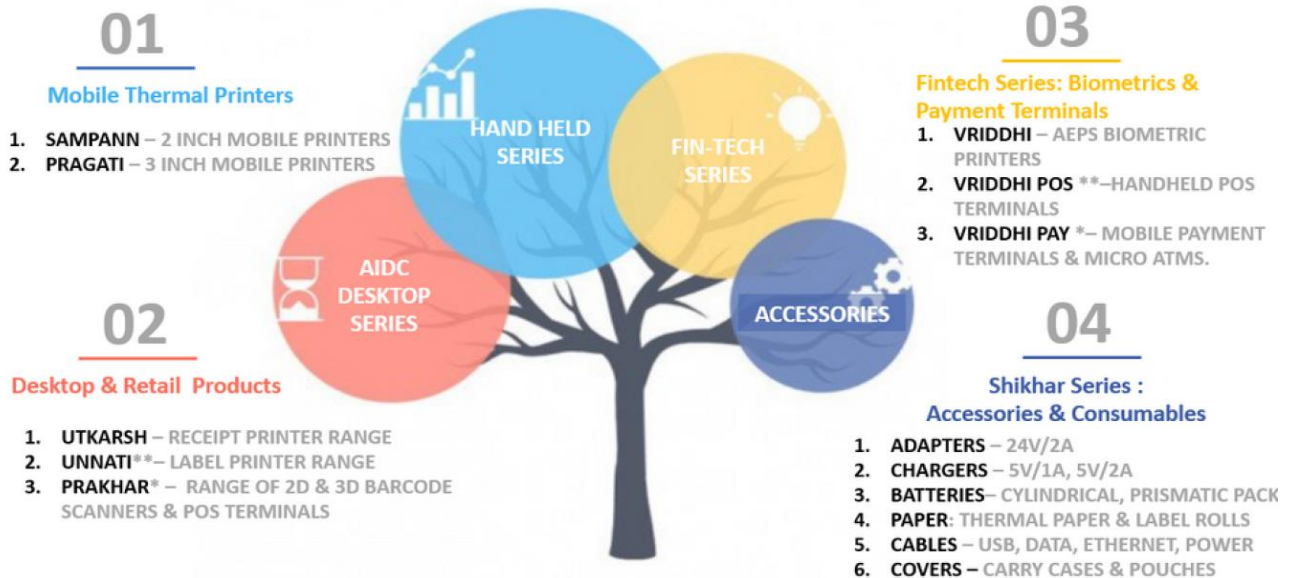
## BluPrints – A Snapshot



### BluPrints Product Range:

## BLUPRINTS VALUE TREE

### BluPrints Product Journey – Value Tree



**01****SAMPANN - THE 58MM MOBILE PRINTER SERIES**

Wireless Handheld Mobile Thermal Printer Series with Receipt Size of Two Inches

**02****PRAGATI - THE 80MM MOBILE PRINTER SERIES**

Wireless Handheld Mobile Thermal Printer Series with Receipt Size of Three Inches

**03****UTKARSH - THE RETAIL TECH SERIES**

Desktop Based Point of Sales Receipt Printers with Built-In Autocutter

**04****UNNATI - BARCODE/ LABEL PRINTER SERIES(DIRECT THERMAL AND THERMAL TRANSFER)**

Wired and Wireless Desktop Based Label Printer Series with Adjustable Receipt Printing Sizes from Two to Four Inches

**05****VRIDDHI - THE FIN-TECH SERIES**

Wireless Handheld Mobile Thermal Printer Series with Receipt Size of Two Inches, with Built-in AADHAR Enabled Payment System (AEPS) Biometric Reader

**06****PRAKHAR - THE AIDC SERIES**

Range of Point of Sales Terminals, Scanners and Retail-Tech Appliances.

**07****SHIKHAR RANGE OF POWER ADAPTERS**

Range of 5V, 9V and 24 V power adapters and battery chargers for normal, fast and vehicle mounted charging.

**08****SHIKHAR RANGE OF CONSUMABLES AND ACCESSORIES**

Range of Prismatic and Cylindrical Battery Packs, USB Data Cables, Shielded USB Cables, Paper and Label Rolls and Leather Carry Bags for Printers.

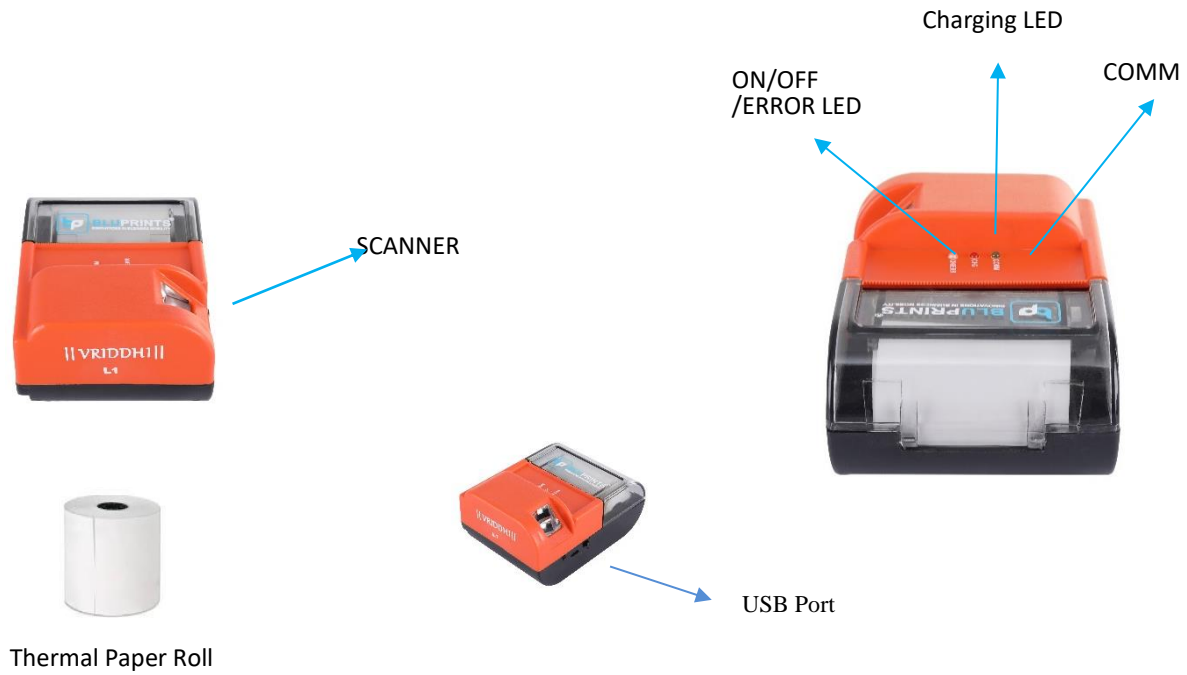


## **BluPrints Vridddhi L1: Integrated Biometric Fingerprint Thermal Printer with Aadhar Enablement**



The Vridddhi from BluPrints Integrated Mobile Printer Series is designed to meet the needs of end-users in semi-urban and rural India. It offers an all-in-one solution with a wireless **Aadhar-enabled biometric system** integrated with a thermal printer for on-the-spot receipting across various business applications in sectors such as **Banking, Financial Inclusion, eKYC**, Public Distribution, and e-Governance. This ultra-sleek and rugged device is powered by an **STQC qualified fingerprint module (FM220U-L1)**, designed to withstand dust, grease, and diverse environmental conditions, perfectly suited for the UIDAI ecosystem. Vridddhi provides a **fully wireless**, economical, hassle-free, and easy-to-use integrated solution, replacing the need for two separate devices with one efficient unit. It enhances productivity instantly at a reduced cost, serving as a plug-and-play device for Aadhar-enabled applications (**UIDAI qualified Level-1 RD Services**) including enrollment, verification, and identification. BluPrints, proud of its "**Make in India**" ethos, ensures exceptional product reliability and quality, backed by comprehensive service and maintenance support through its nationwide network of service centers.

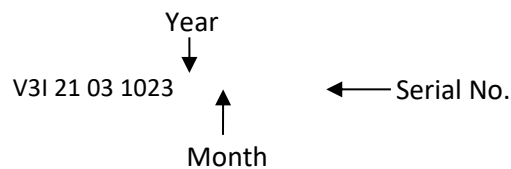
## KNOW YOUR DEVICE



	Function	Description
Slide ON/OFF	ON/OFF	Slide switch for printer turns ON/OFF.
Feed / Mode	Paper Feed/ Printer Configuration	On button press a second, you will get details of printer (e.g., PrinterName, Battery Status, Communication Mode, Font, Version etc.) When pressed, the motor that connects the paper roller starts rotating.
LED	LED Indications	Power ON/OFF & Error, Charging, Biometric
USB	USB Interface	For Charging and Print

## ***Functionality and Indications***

- a. **Slide ON/OFF**: Slide Switch for the printer ON or OFF
  - b. **Feed / Mode Button**:
    - c. Press button for 2-3 second, a configuration receipt will print contains:
    - d. Firmware Version, Date, Printer Name, Mac address and other technical details.
    - e. On Single press (1 Sec) this button you will get one line space in receipt print
    - f. **Font Type**: Printer supports 4 type of fonts – Calibri, Tahoma, Verdana and Normal.
    - g. **Printer Series**: Every printer has unique id e.g. V3I2103123. This series is important for warranty of the device as this series indicates the year and month of the device release/dispatch.
- BT Name is the Bluetooth name which will display on your phone/ tab e.g. BTprinter1234.

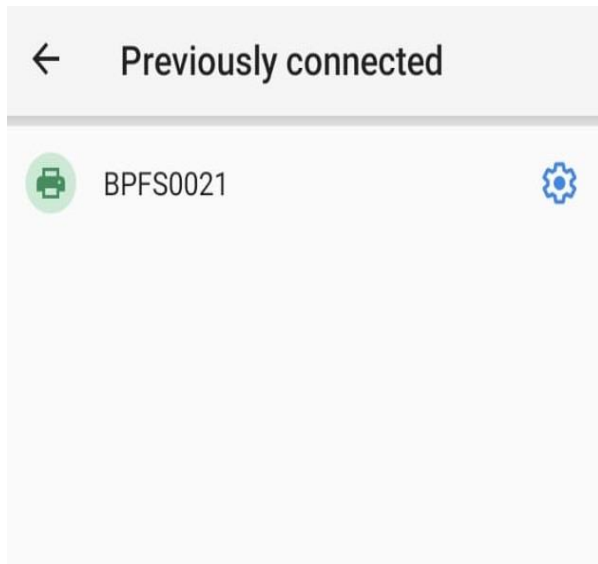


### **LED Indications:**

- **Charge: Red** LED glows when you plug in the charger.
- **Comm: Green** LED start blink at 1 sec interval when printer connected with application.
- **ON/ERROR: Green** LED glows when Printer Power ON,  
Orange/Red LED Blinking indicates low Battery error and paper out Error

## Vriddhi Biometric Testing Guide

Step 1: Pair Vriddhi Biometric Bluetooth (BPFSxxxx) in your Android Smart Phone Bluetooth pairing section.

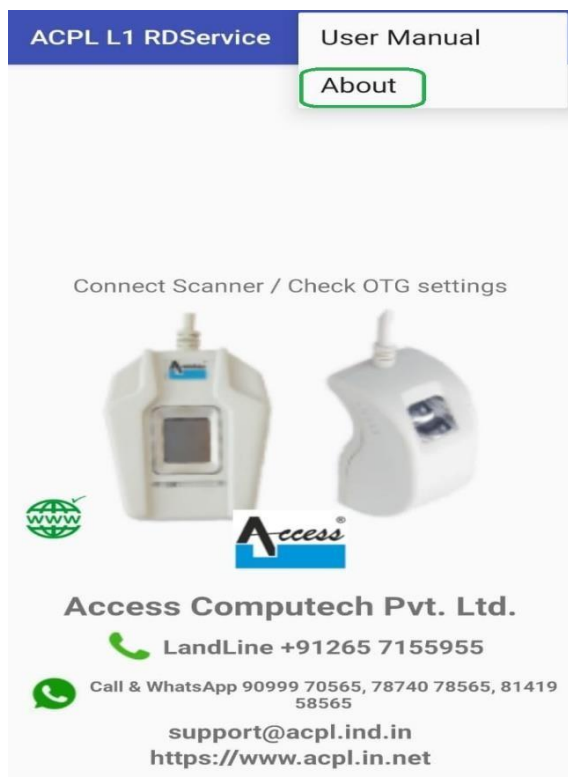


**STEP 2:** Install ACPL L1 RD Service Application from google play store and configure it by opening the Settings option by clicking the dots on the top right corner

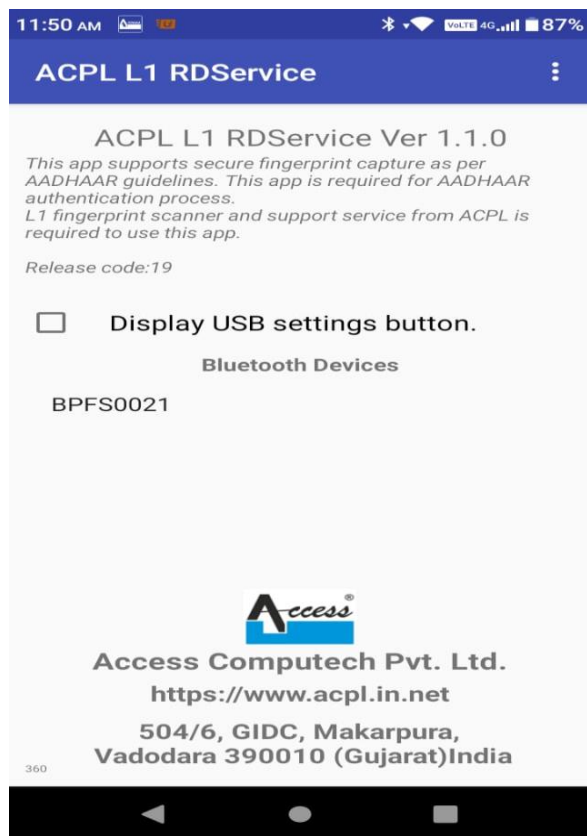




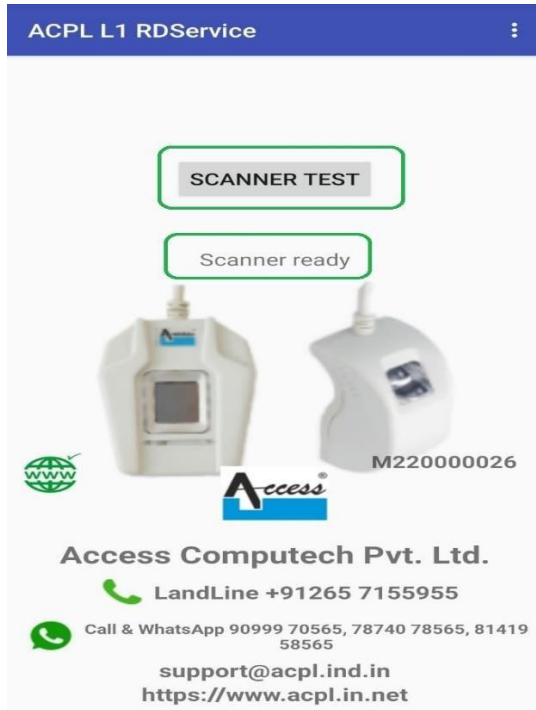
**STEP 3:** Click on About to enter Bluetooth device list



**STEP 4:** Select **BPFSxxxx** device from paired Bluetooth device list and click on mobilephone back button.



**STEP 5:** Wait until device status is Shown “Scanner Ready” and Click on Scanner Test button for Testing

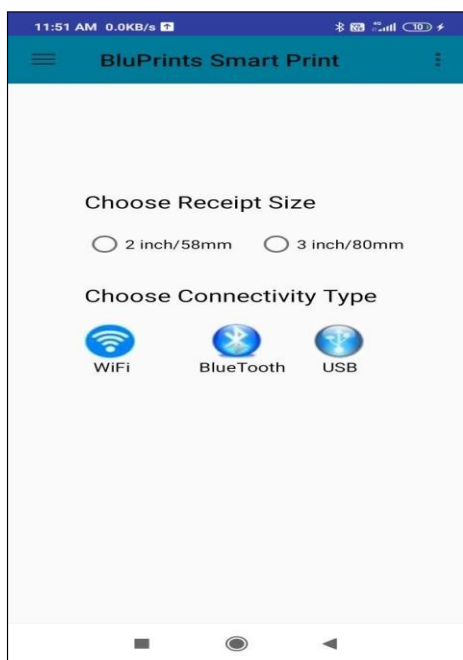


**STEP 6:** After successful data capture of fingerprint, status will show as “Success”.

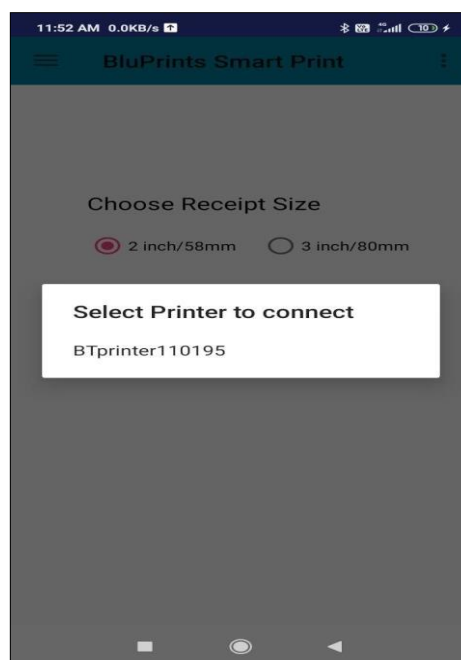


## Vriddhi Printer Testing

1. Install the BluPrints Smart Print application from the **Google Play Store**.
2. Open the BluPrints Smart Print application, select 2 inches / 58mm (as shown in Figure 1), and click on the Bluetooth button. A pop-up window will appear; select the paired printer device, such as BTprinter110195 (as shown in Figure 2).



**Figure 1**



**Figure 2**

**Step 3.** Select any option like for printing text, logo, image, QRCode, etc.



**Figure 3**

## Installations

### Battery Installation

Place the battery at the bottom side of printer as shown below and press the lock twice: Firstly, press inside and then push in upward direction.

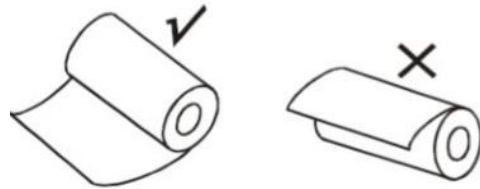
**Battery Installation**



**Battery Removing**



**Thermal Paper Roll Installation** Thermal Paper roll can print only on one side. To identify the right side, scratch the paper roll on both sides, the side which turns black is the right (thermal) side. Keep the paper in such a way that thermal side of the roll should be in contact of Printer head.



### Care Instructions

- Use original BluPrints charger to ensure better charging & longer battery life.
- Use good quality thermal paper roll (50-75 GSM) & recommended paper size rolls for better print quality. Other paper types can cause jams and potentially cause damage.
- Ensure the paper is loaded properly to print on the thermal side. Thermal paper only prints on one side.
- Avoid contact with water or any conductive material (such as metal). In case such a thing happens just switch off the device immediately and get in touch with customer support.
- Ensure that print command is given only when the paper roll is present in the printer otherwise it might lead to damage to the printer head.
- Keep the printer cover closed always to protect it from exposure to dust & sunlight exposure. Do not try

to dismantle the device on your own.

- Keep the printer head dust free. You can use cotton pads to clean the printer head.
- Keep the printer away from devices like microwaves that can obstruct Bluetooth signals.
- Turn Off the printer when not use it for long time periods.

### Precautions:

- Be sure not to print continuously over 1 meter, otherwise may cause damage to the printer head.
- Water or other liquid should not spill into the printer, also the printer should not be appeared in the rail, or else may cause printer damage.
- Please do not open the paper case cover or touch the paper roll while printing or feeding; otherwise, the printer may work improperly.
- If print with serial interface, should not unplug the interface cable in the course of printing, or else some printing data may be lost.
- When print with Bluetooth interface, the communication distance should be within 10 meters, otherwise the printer doesn't print or prints rubbish codes.
- Too high (50°C) or too low (10°C) temperature and too high (80%) or too low (20%) relative humidity both effect the quality.
- The Print paper in poor quality or stored for too long time also may reduce the print quality even damage the printer.
- Be sure to use up the power of the battery before charge it, as it can ensure the using life of the battery.
- If the printer will be stored for a long time, please be sure to take out the battery, otherwise may damage the battery and printer.
- Normal thermal paper can't be kept too long time, if you need to keep the receipt for a long period, please choose long term effective thermal paper.
- When charging, use a specified charger (BluPrints Charger). Other conditions (high temperature, high pressure/high current, using the modified battery charger, etc.) excludes here May result in over-charging the battery and abnormal current and/or voltage, cause abnormal chemical reaction, and may cause the battery overheat, light and/or explosion.
- Do not overcharge the printer

## ***General Maintenance***

### **1. Clean the printer head**

When one of following cases occurs in the printer, should clean the print head;

- a. Printing is not clear or faded.
- b. Some columns on the printed page are not clear.
- c. Feed paper creates noise.

### **2. Printer head cleaning procedure**

1. Turn off the printer, open the cover and remove the paper roll.
2. If you have just finished printing, wait for the print head to cool completely.
3. Now dip the soft cotton in petrol/spirit and clean the thermal printer head to remove the dust.
4. Wipe again with dry cotton cloth and re-test printer.
5. If the printer will be stored for a long time, please be sure to take out the battery.
6. Keep the printer in safety case pouch to protect from dust.

### ***Warranty:***

1 Year Factory level warranty against manufacturing defects only

The warranty period starts at the time of Product's original purchased, and the date of invoice issued to the customer. The Product may consist of several different parts and accessories may covered under 12 months warranty period.

### **How to get Warranty Service.**

If you wish to make a claim under the Limited Warranty, you may call the help Line (where this is available and please note national rates apply to calls) and/or where necessary, return your Product or the affected part (if it is not the entire Product) to our designated service location. Information about our designated service locations can be found at our website ([www.bluprints.in](http://www.bluprints.in)). You must return your Product or the affected part (if it is not the entire Product) to our designated service location before the expiry of the Warranty Period.

**Note:** If the warranty period is over, service charges and replaced parts charges shall be applicable.