

Pocket Spectrum Plus+



USER GUIDE

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General Specifications

| Feature | Parameters |
|--------------------------------------|---|
| Printing system | Horizontal Direct Thermal |
| Resolution | 8dots/mm |
| Total number of dots | 384dots(48mm) |
| Print speed | 40mm/sec(Max.) |
| Number of column | 16(24x24), 32(12x24), 42(9x17) |
| Paper width | 58mm |
| Interface option | Bluetooth |
| Head life | 50km |
| Data memory | 1Mbit |
| Power | 7.4V DC Li-ION 900mAH / Standard pack |
| Drop test | 1meter |
| Dimensions(mm) (W x L x H) | · Spectrum Plus : 84x141x36(with card reader) |
| Weight (with standard power pack) | · Spectrum Plus : 271g |
| MSR | · Spectrum Plus-I : ISO-I & II |
| Bar code printing | UPCA,UPCE,JAN8(EAN),CODE39,CODE93,CODE128,ITF,CODABAR |

NOTE: Charge Pocket Spectrum Plus Battery fully prior to use! Pocket Spectrum Plus batteries are NOT interchangeable with the older Pocket Spectrum batteries.

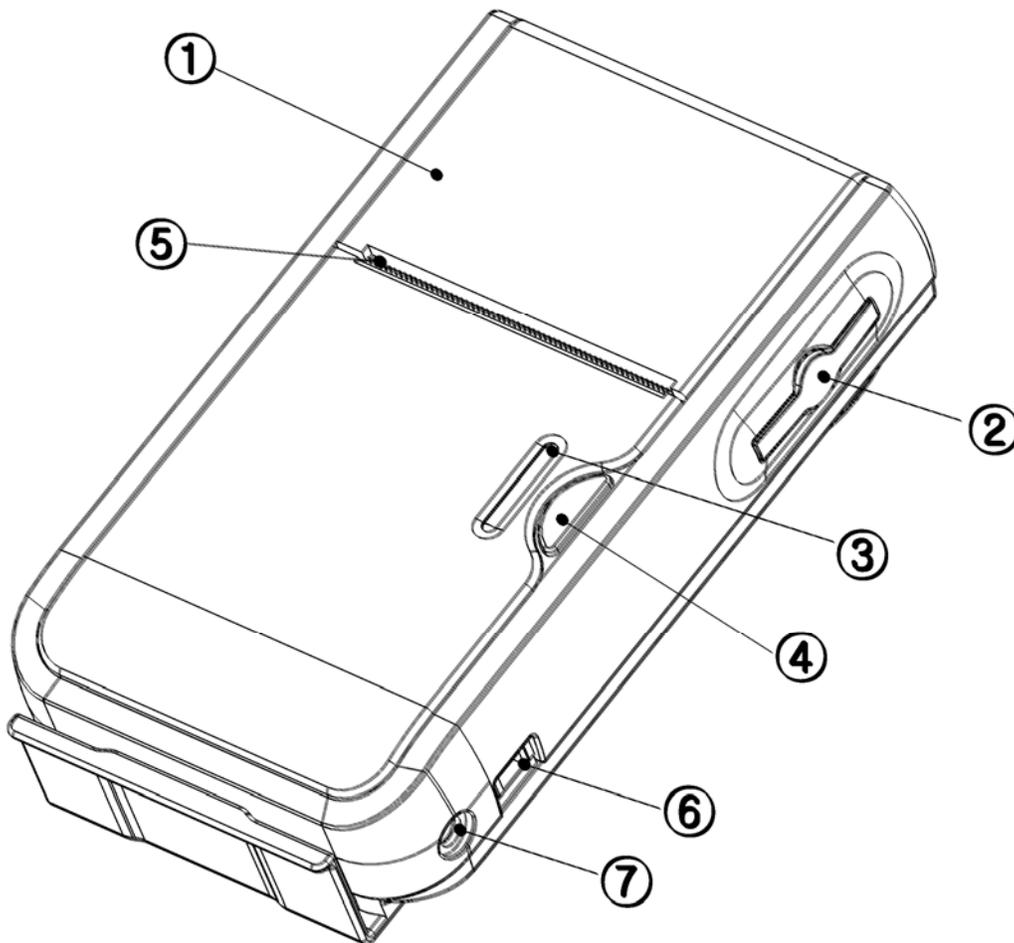
Spectrum Plus Bluetooth Reset: The Pocket Spectrum Plus will reset the Bluetooth module during its self-test. To initiate a self test, begin with the Spectrum Plus OFF, then press AND HOLD the power button until it begins printing. Wait a half second or so, then release the power button.

Note: Specifications subject to change without notice.

Printer Components

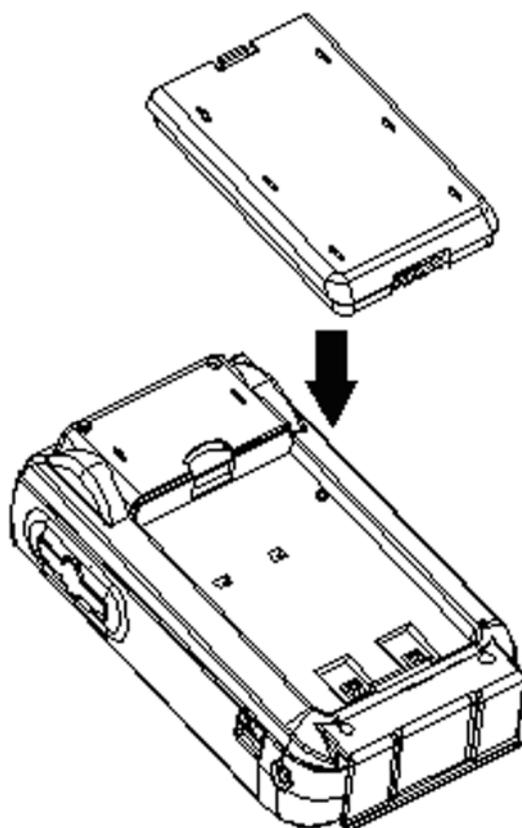
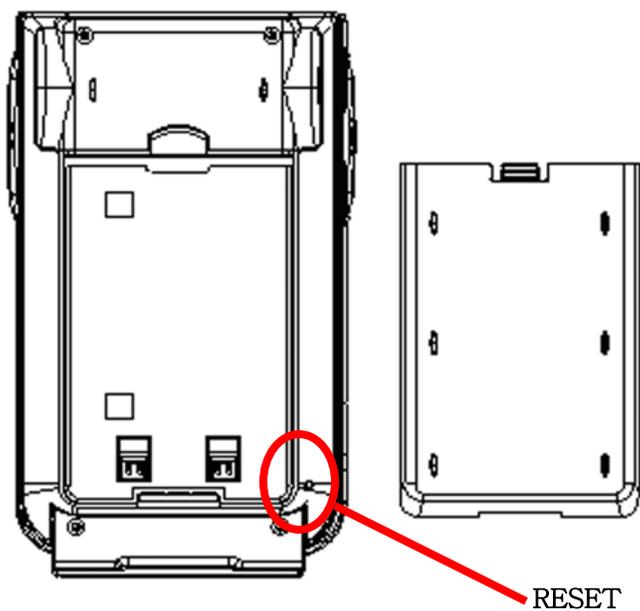
A . Pocket Spectrum Plus - Front external view

1. Paper cover
2. Paper cover open button (both sides)
3. LED Window
4. Power Button
5. Paper exit slot
6. I/O connector
7. External Power



B . Pocket Spectrum Plus - Bottom view

1. Battery compartment
2. 7.4V DC(Li-ION) 900mAH Battery Pack



General Safety Information

- Read and follow these instructions.
- Before cleaning the printer, disconnect the power supply and make sure that the printer is off.
- Clean the printer with a damp cloth. Do not use liquid or spray products.
- Do not operate the printer near water.
- Only use approved accessories and batteries, do not connect devices that are not compatible.
- Use the type of electrical power supply indicated on the printer label, If in doubt, contact your retailer.
- When deciding where to place the printer, make sure it is positioned where it will not be damaged.
- Do not introduce foreign object of any kind into the printer as they could cause a short circuit and could damage the printer.
- Disconnect the printer from the electrical supply and have it repaired by a specialized technician when:
 - Liquid has entered the printer
 - The printer has been exposed to rain or water.
 - The printer is not functioning normally
 - The printer has been dropped and its outer casing damaged.
 - Printer performance is poor.
 - The printer is not functioning.

Unpacking the Printer

Remove the printer from its carton being careful not to damage the packing material so that it may be re-used if the printer is to be transported in the future.

Make sure that all the components are present and that there are no signs of damage. If there are, contact Advanced Merchant Solutions, Inc.

1. User's manual
2. Paper roll
3. Battery charger
4. Battery
5. Printer

Printer Features

The **Pocket Spectrum Plus** is a complete breakthrough in mobile printer design! The **Pocket Spectrum Plus** is a true Line Printer (the paper moves underneath a motionless head) , rated not in characters, but MILES of paper in reliability (31 to be precise)! Powered by powerful, built-in Lithium Ion rechargeable batteries, this printer literally throws receipts out at up to 2 inches per second! This device will also easily fit in a pocket or purse, and weighs just 10 oz.

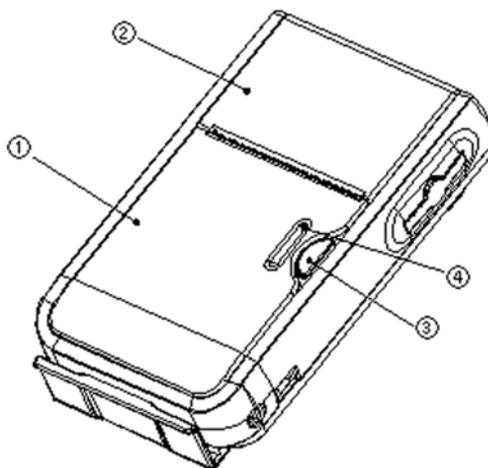
The **Pocket Spectrum Plus** (with Bluetooth interface) is primarily intended for Credit card and Check Guarantee applications, combined with Bluetooth equipped PDA's.

It is important to note that **Pocket Spectrum Plus** is designed for easy paper loading, making it simple, and more convenient to use.

It has a 203 dpi thermal print mechanism that utilizes 58mm(-0.5mm)-wide paper rolls and can print up to 42, 32 and 16 column formats.

Printer Description

The printers consists of an outer case (1) equipped with a paper door (2) under which is the paper roll and print mechanism. On the front is the Power Button (3) and LED window (4).



Turning the printer ON/OFF

Press and hold the Power button for 1 second to turn the printer power ON. There will be a series of rising tones. To turn OFF the printer, press and hold the power switch again, there will be a series of falling tones, and the printer will turn itself off. The printer will also turn itself off after 10 minutes of inactivity to conserve battery power.

NOTE: Charge Pocket Spectrum Plus Battery fully prior to use!

Spectrum Plus Bluetooth Reset: The Pocket Spectrum Plus will reset the Bluetooth module during its self-test. To initiate a self test, begin with the Spectrum Plus OFF, then press AND HOLD the power button until it begins printing. Wait a half second or so, then release the power button.

Battery

Recharging battery

To recharge the battery, use the charger packed with the printer and proceed as follows:

- Plug the charger into the wall, and into the Pocket Spectrum Plus;
- For a complete recharge, we recommend that the battery be left to charge for 100 to 140 minutes.
- When the battery has reached a full charge, the LED on the charger will turn green.

WARNING

Incorrect battery charger voltage (different from that given in table.1.1) could seriously damage charger.

Table 1.1 provides specifications for the battery charger

| | |
|-----------------------------|-----------|
| Max recharge current | 0.5A |
| Max recharge voltage | 100V-240V |

(Table.1.1)

Information regarding battery use

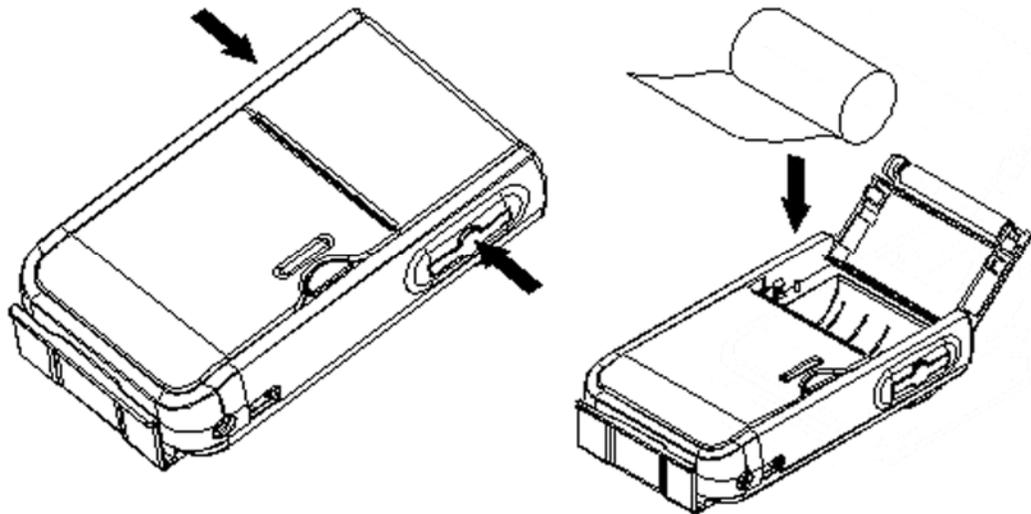
- Never use battery charger and/or battery that is damaged or worn.
- Battery life varies greatly depending for example, on print density and the text to be printed.
- Recharge times vary depending on depletion levels, type of battery and battery cradle used. Batteries may be recharged and discharged hundreds of times but they do wear out over time. When battery life (both print and stand-by) is noticeably shorter than usual, it is time to purchase a new battery.
- Only utilize batteries that conform to specifications and only recharge them using a battery charger approved by Advanced Merchant Solutions, Inc.
- When the battery charger is not in use, unplug it from the electrical outlet.
- If not used, even a completely - charged battery will automatically discharge over time.
- Extreme temperatures can affect battery charge levels-leave them to cool or warm as required.

Loading paper

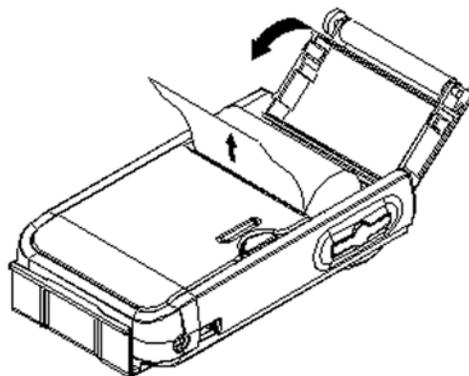
The printer has been designed with an easy paper load system to improve handling and simplify use. When the paper is loaded into the printer, put the roll with the edge lifted into the printer.

To change the roll of paper, proceed as follows:

1) Open the paper cover pushing on the printer lateral buttons and position the paper roll so that it unrolls in the direction shown in the above figure.



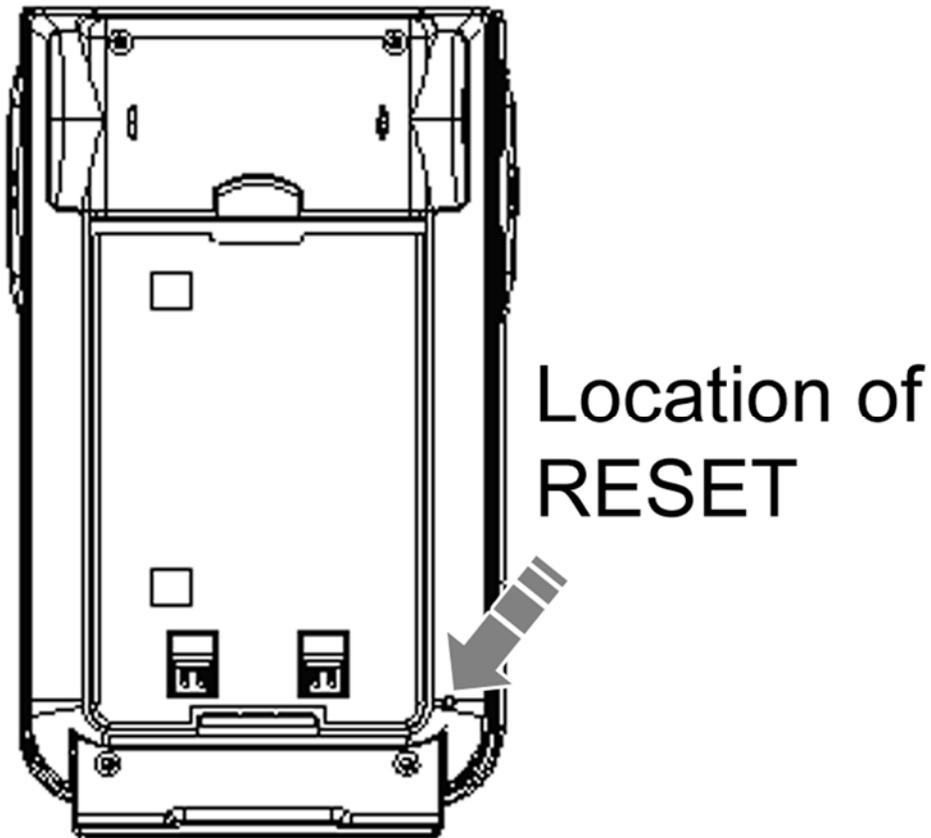
2) Pull up on the edge of the paper and close the cover pushing the left part of the cover.



3) Tear off the paper. The printer is now ready.

Resetting the Printer

The **Pocket Spectrum Plus** contains a powerful processor. Like all computing devices, it may need to be reset from time to time. In order to reset the printer, simply use a paper clip, and press the reset button, located inside the printer through the reset access aperture. This is a small hole in the bottom of the printer.



Spectrum Plus Bluetooth Reset: The Pocket Spectrum Plus will reset the Bluetooth module during its self-test. To initiate a self test, begin with the Spectrum Plus OFF, then press AND HOLD the power button until it begins printing. Wait a half second or so, then release the power button. **THIS IS NECESSARY WHEN BONDING THE SPECTRUM PLUS TO A NEW DEVICE AFTER IT HAS BEEN BONDED TO A PREVIOUS DEVICE.**

Interfaces

Communication by Bluetooth

The printer communicates with any equipment including a Bluetooth emitter by RF up to 10m of distance and with a 720 Kbytes data transmission flow while maintaining this printer's performance.



Communication via Serial Port (Cable)

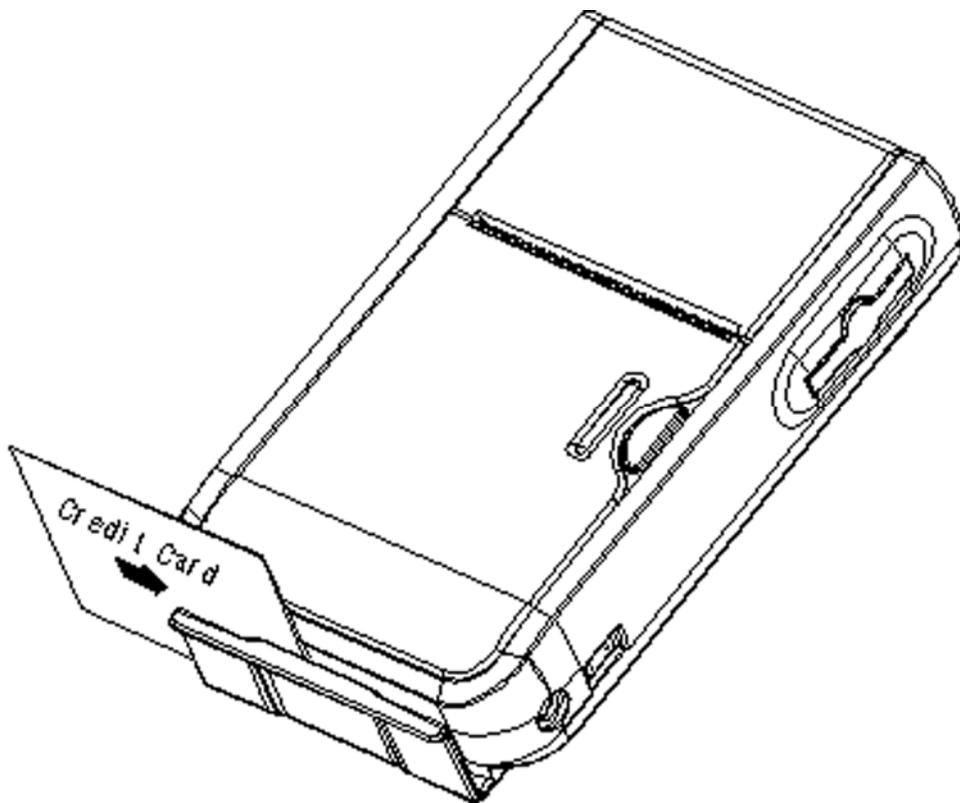
For communication with RS-232C and USB, prepare dedicated serial cable and USB cable. Insert the connector into the printer port. Connect the other end of the cable to the device to be connected. For applications that do not require Bluetooth or USB, we recommend our Pocket Merchant, which has an RS-232 interface, and a large library of pre-configured PDA cables available. **FOR THIS REASON, POCKET SPECTRUM PLUS MODELS WITH RS-232 OR IRDA INTERFACES MUST BE CUSTOM ORDERED, THESE INTERFACES DO NOT COME STANDARD.** For more information on this, please go to www.merchantanywhere.com. It is against VISA OPERATING REGULATIONS to broadcast unencrypted magnetic track data. In order to conform with these regulations, and to prevent inadvertent violation, the IrDA (Infrared) components are not populated in the Pocket Spectrum Plus. The window exists only to support custom versions used in a non-credit card environment. Bluetooth supports encryption, and offers a safe, secure method of transmitting sensitive data.

Swiping a Magnetic Card

With the magnetic stripe down, and facing the printer, slide the card through the slot in the direction shown. You will see that the card slot is a little wider on the left side, making it easier to get the card started in the slot.

Wipe the card with a smooth, even motion. Do not 'jerk' the card, or stop during the swipe. Make sure that the card slides firmly against the bottom of the slot as you pull it through.

The unit will beep, and the red LED will flash once if the read was successful. If there was an error during the read, the red LED will flash three times, and the unit will beep three times. If this happens, simply swipe the card again.



Cleaning

- To clean the printer, use a vacuum cleaner or soft cloth.
- Before cleaning the printer, make sure that the printer is off.
- Do not use alcohol, solvents or hard-bristled brushes.
- Do not let water or other liquids seep into the printer.

**PAIRING DIRECTIONS FOR ANDROID &
BLACKBERRY ARE AVAILABLE AT:
www.MeritusMobile.com**