

Mobile Printer MTE

Mobile Pro Spectrum



USER GUIDE

Marketing Trading Export GMBH-Germany

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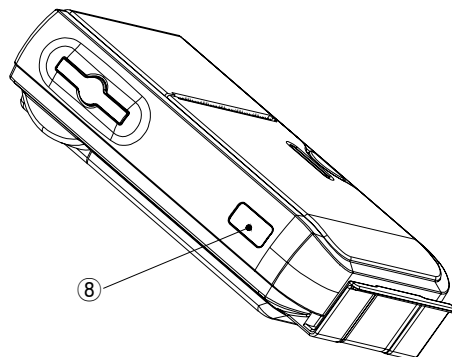
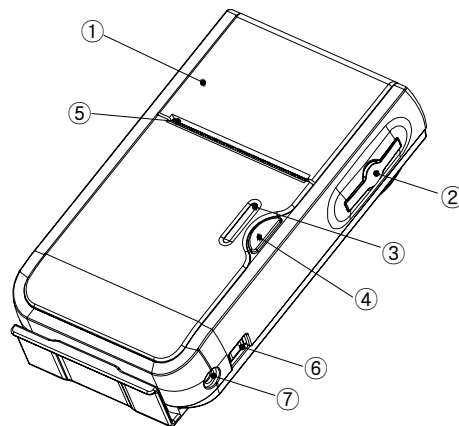
GENERAL SPECIFICATIONS

Feature	Parameters
Printing system	Horizontal Direct Thermal
Resolution	8dots/mm
Total number of dots	384dots(48mm)
Print speed	35mm/sec(Max.)
Number of column	16(24x24), 32(12x24), 42(9x17)
Paper width	58mm
Interface option	Bluetooth, IrDA, RS-232C, USB, TTL
Head life	50km
Data memory	1Mbit
Power	4.8V DC Ni-MH 800mAH / Standard pack 4.8V DC Ni-MH 1600mAH / Extended pack(option)
Drop test	1meter
Dimensions(mm) (W x L x H)	<ul style="list-style-type: none"> · Spectrum-I : 84x141x36(with card reader) · Spectrum-II : 84x151x36(with JIS card reader) · Spectrum-III : 84x135x36(without card reader)
Weight (with standard power pack)	<ul style="list-style-type: none"> · Spectrum-I : 271g · Spectrum-II : 294g · Spectrum-III : 251g
MSR	<ul style="list-style-type: none"> · Spectrum-I : ISO-I & II · Spectrum-II : ISO-I & II and JIS-II
Bar code printing	UPCA,UPCE,JAN8(EAN),CODE39,CODE93,CODE128,ITF,CODABAR

PRINTER COMPONENTS

A . Mobile Pro Spectrum – Front external view

1. Paper cover
2. Paper cover open button
3. LED Window
4. Power Button
5. Paper exit slot
6. Serial connector
7. Power inlet
8. IrDA interface unit



B . Mobile Pro Spectrum – Under view

1. Battery compartment
2. 4.8V DC(Ni-MH) 800mAH or 1,600mAH(option) Battery Pack

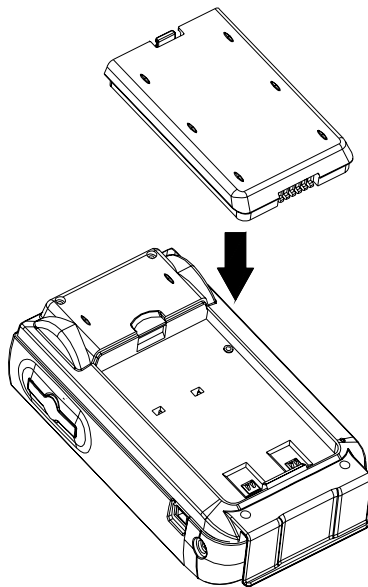
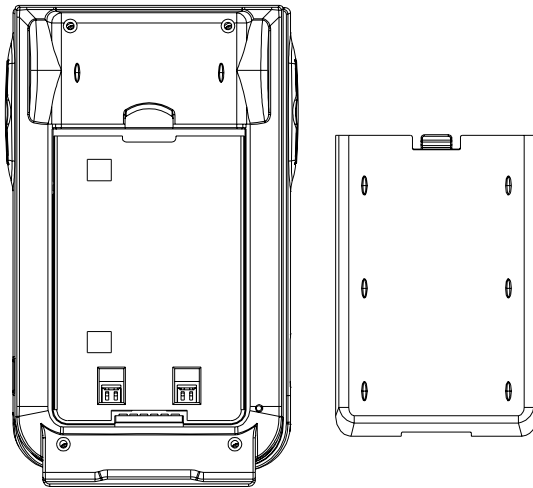


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GENERAL SAFETY INFORMATION

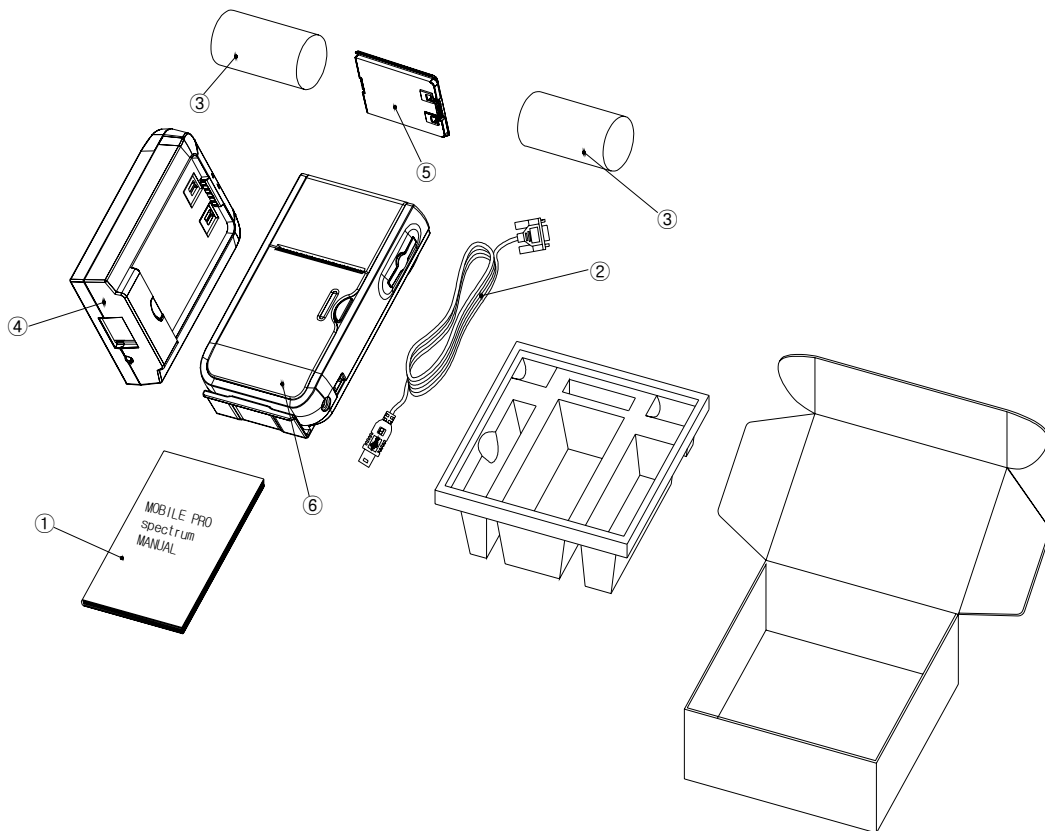
- Read and keep the instructions which follow.
- Before cleaning the printer, disconnect the power supply and make sure that the printer is off.
- Clean the printer with a damp cloth. Do not use liquid or spray products.
- Do not operate the printer near water.
- Only use approved accessories and batteries, Do not connect to product 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 jeopardize printer, with the exception of the scheduled maintenance procedures specifically indicated in the user manual.
- Disconnect the printer from the electricity supply and have it repaired by a specialized technician when:
 - A. Liquid has seeped inside of the printer
 - B. The printer has been exposed to rain or water.
 - C. The printer is not functioning normally despite the fact the all instructions in the user manual have been followed.
 - D. The printer has been dropped and its outer casing damaged.
 - E. Printer performance is poor.
 - F. 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 illustrated in fig. 1 are present and that there are no signs of damage. If there are, contact MTE

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



PRINTER FEATURES

The new **Mobile Pro Spectrum** portable thermal printer offers an innovative wide alternative to select interface options (RS-232C or USB or IrDA 1.0 or Bluetooth). The printer is powered using batteries.

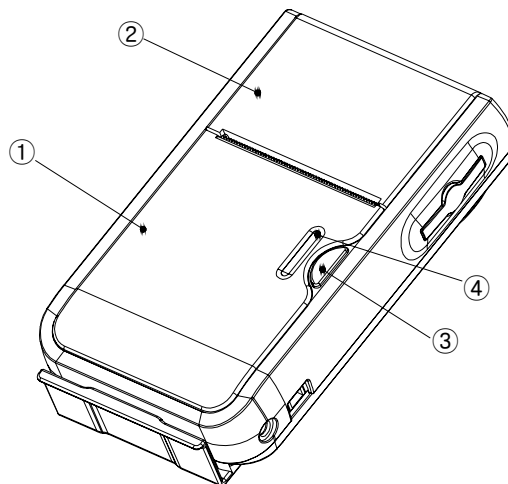
The **Mobile Pro Spectrum**(with IrDA or Bluetooth interface) is primarily intended for the automatic identification and mobile telephony market, combined with portable terminals without printer; the infrared bi-directional interface with which it is equipped makes cable connection – so “inconvenient” for portable devices – unnecessary.

It is important to note that **Mobile Pro Spectrum** is designed with easy paper load, making it simpler and more convenient to use.

It has a 203dpi 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 printer consists of a casing(1) equipped with a cover(2) under which is housed the paper roll and print mechanism. On the front is the Power Button(3) and LED window(4).

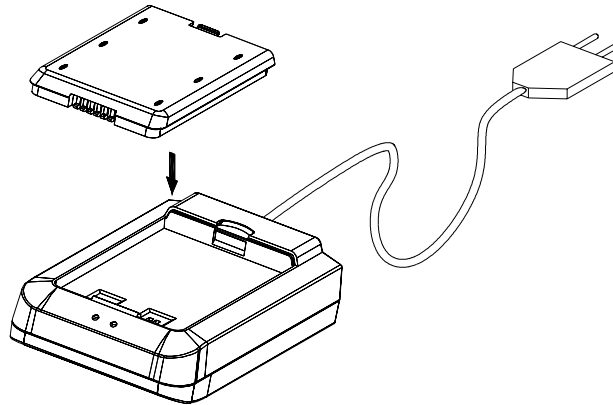


1. Turning the printer ON/OFF

Press and hold the Power button for 1 second to turn the printer power ON.
To turn OFF the printer, press and hold the Power switch till the printer OFF.

2. Recharge cradle

The printer is equipped with a rechargeable battery pack. To recharge the battery, use the recharge cradle that comes packed with the printer and following the instructions reported in the 3.1 paragraph.



3. Battery

3.1 Recharging battery

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

- Put the battery onto the recharge cradle and plug the recharge cradle into the electrical mains;
- For a complete recharge, we recommend that the battery be left to charge for 100~140minutes;
- When the battery have reached a full charge, the green LED on the recharge cradle will flash; **If the battery is getting too hot, take it from the cradle (orange light).**

WARNING

Incorrect battery recharger voltage(different from that given in tab.1.1) could seriously damage printer.

Table 1.1 provides specifications for the battery recharger

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

(Tab.1.1)

3.2 Information regarding battery use

- Please note that the new Ni-MH battery reaches maximum performance levels only after having been completely discharged and recharged at least two or three times.
- Never use battery cradle 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 buy a new battery.
- Only utilize batteries that conform to specifications and only recharge them using battery cradle approved by MTE
- When the battery cradle is not in use, unplug it from the electrical mains. If not used, even a completely-charged battery will automatically discharge over time.
- Ni-MH batteries last longer if you remember to completely discharge them every so often.
- Extreme temperatures can affect battery charge levels-leave them to cool or warm as required.

3.3 Disposing of batteries

- Batteries must be recycled or disposed of properly.
Do not throw batteries away as part of normal refuse disposal
- Do not throw batteries into open flame!

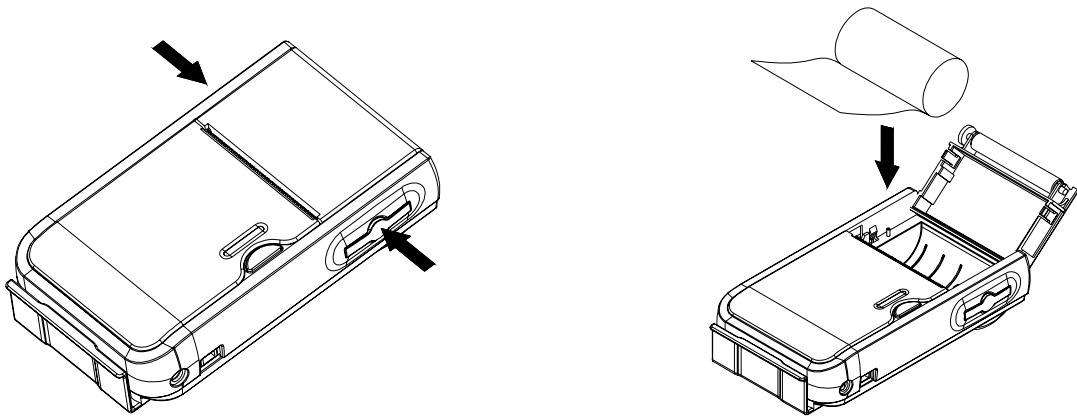
4. Loading paper

The printer has been designed with an easy paper load system to improve handling and simplify use.

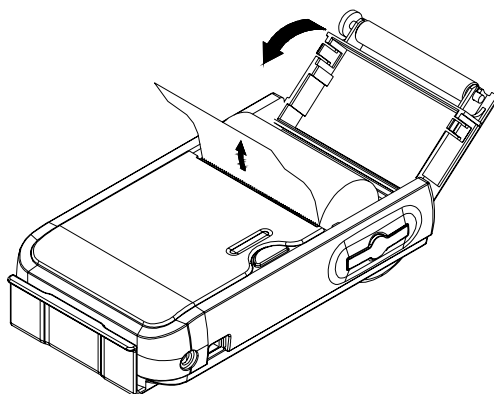
When the paper is loaded into the printer, put the roll with the edge lifted into the printer.

To change the roll of paper, proceed as follows:

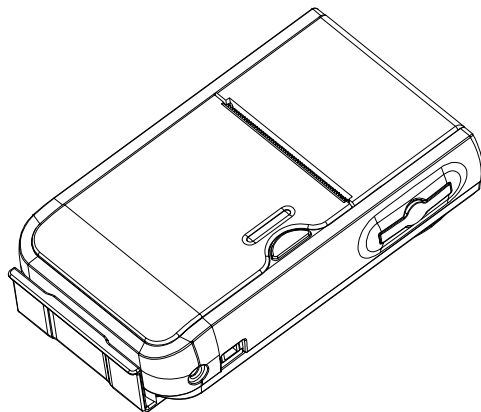
1) Open the paper cover pushing on the printer lateral buttons and position the paper roll so that it unroll in the direction shown in the above figure:



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



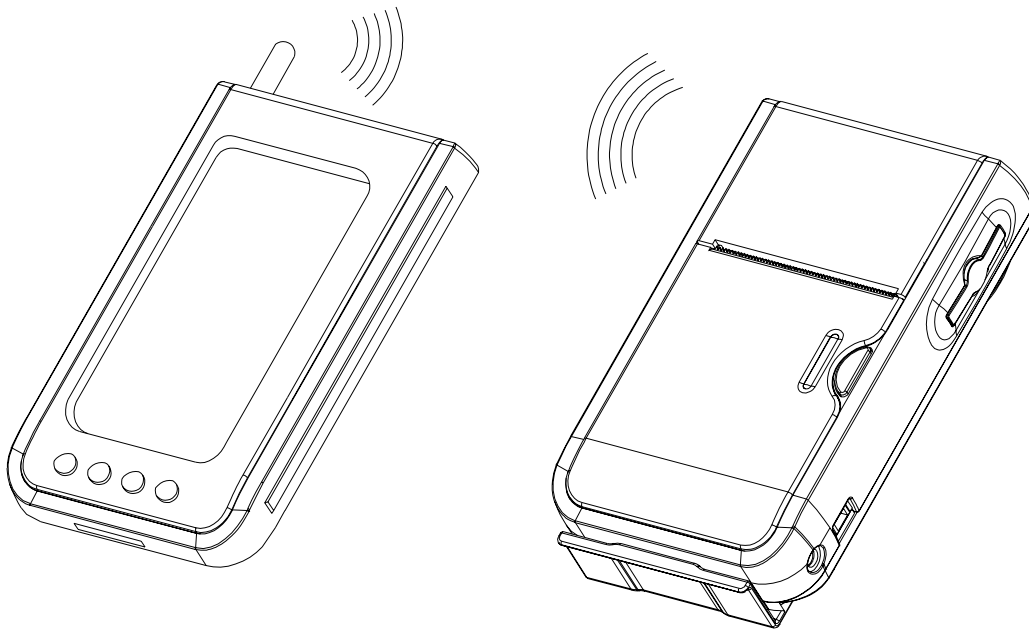
3) Tear off the paper. The printer is now ready;



5. Interfaces

5.1 Communication by Bluetooth

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

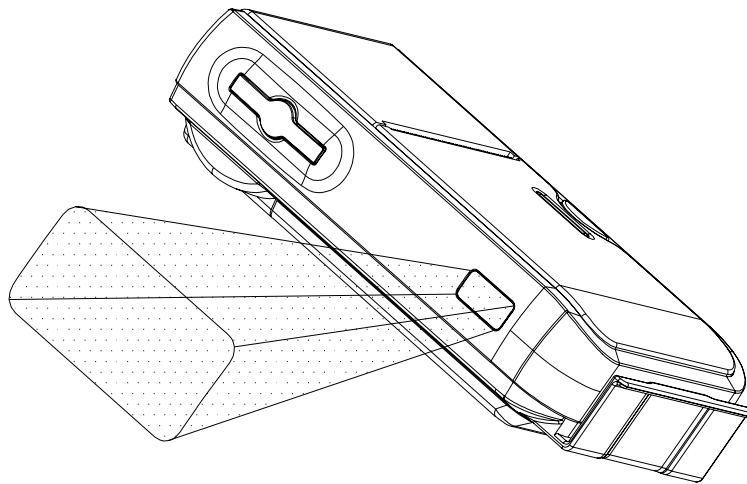


5.2 Communication by IrDA

Set the infrared port of the device to face straight to the printer's infrared port. Communication is available in the range of 15° up, down, left, and right. Avoid blocking between the printer and the device to be connected. Otherwise, data may not be sent correctly.

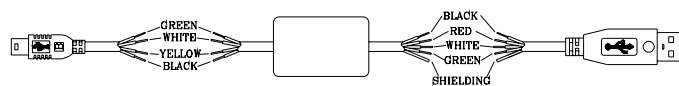
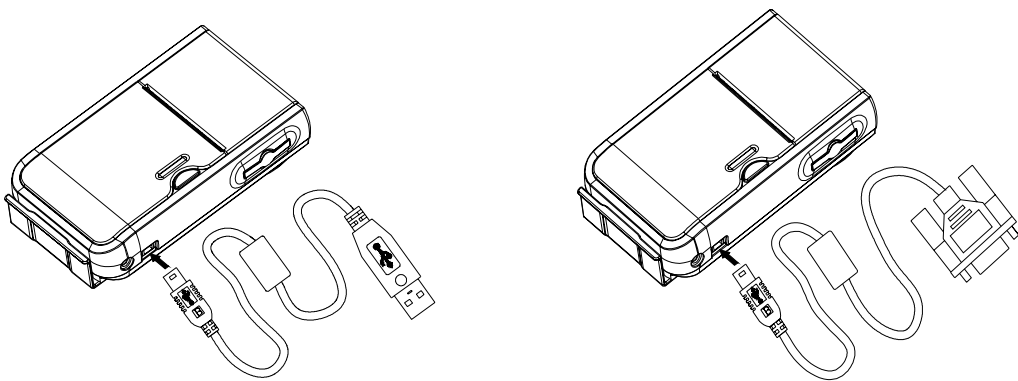
WARNING

- Communication in a place exposed to strong light such as direct sunlight and fluorescent lighting may fail in receiving correct data.
- Communication may fail in receiving correct data after leaving the printer unused for a long time in other than storage temperature.
- The range of communication may differ depending on the device used or the environmental condition.
(Communication may be disabled even within the range given in the specification.)



5.3 Communication via Serial Port(Cable)

For communication with RS-232C and USB, prepare dedicated serial cable and USB cable. Insert the connector into the serial port. Connect the other end of the cable to the device to be connected.



USB Cable



RS232C Serial Cable

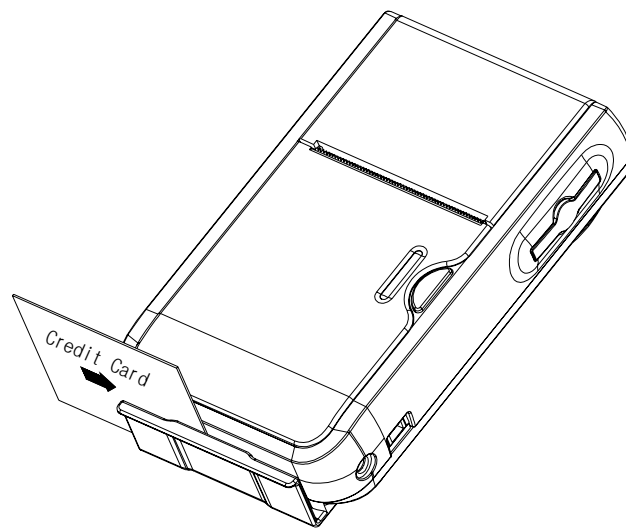
Notice: All interface options are to be decided by customer. No single interface option offered without previous request by customer.

6. Swiping a Magnetic Card(Only Model with Built-in Mag Stripe Card Reader)

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.



7. 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.