

## Mini Portable Thermal Printer-MP300

BUY ON  
[www.cablematic.com](http://www.cablematic.com)

**User Manual**

BUY ON  
**www.cablematic.com**

## Attentions

Please read this document before using the printer !

### Safety attention

This printer can use special charger and power adapter only provided by the company. Or there will cause product damage, battery leakage, fire even explosion. Don't put the battery to fire. Don't make the battery short circuit, demolition heating, or it maybe battery leakage, fire even explosion. Fluid in battery has causticity. If operate inadvertently causing battery leaks and the liquid stick to skin or clothes, please use water to wash immediately. If entering eye accidentally, please use plenty of water to wash eyes and go to see a doctor. Don't open the paper cover, touch printer-core when printing or just printed. In order to avoid burns caused by high temperature. Don't use the printer when malfunctioning. It may cause fire or electric shock. Switch off and unplug the printer then call your dealer.

### Attentions in using

Neither immersed the printer in water nor prolonged exposure to rain, or it may cause damage to the printer. Don't open the paper cover when printing, or it may cause the printer work not properly. Can't unplug the serial cable when printing in serial port. Or printed data will not be complete. Please align the master's IR window to the printer's IR window when printing in IR mode. Distance can't exceed 50cm, angle can't exceed 30 degrees, or may cause garbled or can't print. Although printer can work stable with -10℃ to 50℃, but too high environment temperature or low temperature may reduce print quality. Too high humidity(>85%) or too low humidity (<20%) will reduce print quality. Using poor quality printing paper or store paper too long time may reduce printing quality even damage the printer. When printer working in black mark detection method, requiring black label that pre-printed in printing paper conform black label printing specifications. Or it may cause printer can't detect the black label accurately.

### Attentions in storage

Store temperature: -20℃ to 70℃. Humidity temperature: 5% to 95%. Please remove the battery in a separate storage if store the printer for long time. Or it may lead to battery failure even leaking then damage the printer. General thermal paper storage time is short. If you want to print document to save for long time, please use the long-term thermal paper. Don't store paper in direct sunlight or heat. Please save in a cool dark place if you have opened.

## ■ Attention in battery safety

Please read this user manual before use product

May cause battery to overheat, fire, explosion, damage, performance or reduce product's life if ignore these instructions.

danger

1. Don't let water enter in battery. If burn security device inside the battery, battery charging may cause exception current or voltage, chemical reaction. Then even cause battery to overheat, ignite or explosion.

2. Don't use or store battery near high-temperature place. Excessive heat may damage resin enclosure and/or insulation materials, then short-circuit inside battery. Even lead battery overheat, fire and/or explosion.

3. Please use the special charger when charging. Charging in high temperature, high pressure/high current, using modified charger, etc. may cause over battery charging and abnormal current/voltage, chemical reaction. Then may cause battery overheat, fire and/or explosion.

4. Battery have marked positive and negative clearly. Please sure that battery orientation is correct when putting battery into the charger and/or product. Insert reversed will cause charge reversed, chemical reaction. Then may cause battery overheat, fire and/or explosion.

5. Don't contact battery and power outlet with cigarette lighter socket. It may cause hypertension, excessive current, battery to overheat, fire and/or explosion.

6. Don't heat battery or put battery in fire. This may melt insulation material, damage security device, ignite electrolytic solution, causing battery overheat, fire and/or explosion.

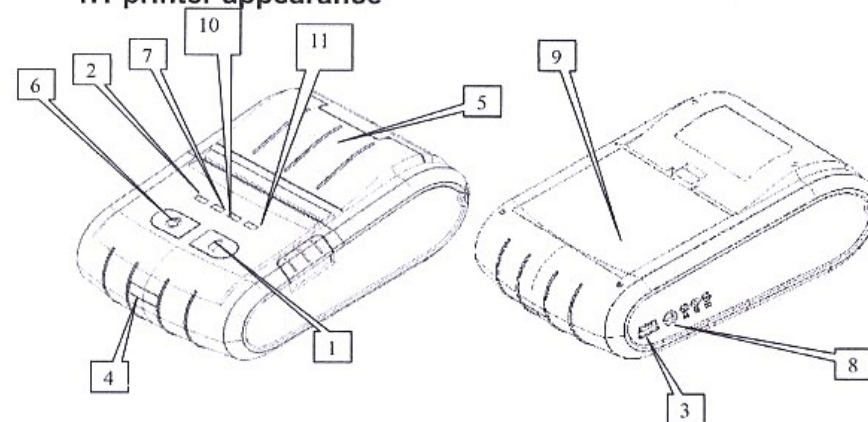
7. Don't use battery in opposite (+) and (-) orientation. In the charging process, this will cause reverse charge, abnormal chemical reaction. In the using process, may appear abnormal current that can't be predicted. Causing battery overheat, fire and/or explosion.

8. Don't let battery's positive and negative touch any metal. Don't carry or store battery with metal objects such as necklaces, hair clips, ext. Internal short-circuit may cause excessive current, cause battery overheat, fire and/or explosion and the adjacent metal objects may be overheating.

9. Don't throw or hit battery. If burned security device inside the battery, the battery charging may cause abnormal current and/or voltage, cause abnormal chemical reaction then may cause battery overheat, fire and/or explosion.

## Part — Introduction

### 1.1 printer appearance



1. feed button
2. low paper indicator
3. RS232 serial/USB communication socket
4. IR interface
5. printer cover
6. power button
7. system light
8. power interface
9. battery cover
10. charge indicator
11. Bluetooth connection indicator

## 1.3 Accessory

### Standard accessories

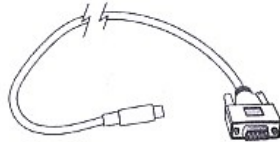
battery



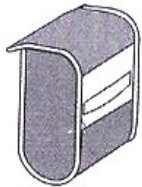
power charge



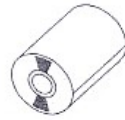
serial or USB cable



### options



leather



paper roll

BUY ON  
**www.cablematic.com**

## Part 二 Features

### 2.1 printing performance

Print method: thermal printing

Paper width : 57mm;

Effective print width : 48mm

Resolution : 8 点/mm (203dpi) ;

Dots per line: 384 dots;

Print speed : 60~100mm/s;

Paper thickness : 60~80 μm;

Printable content : English ,members ,symbols, characters, graphics, curve, pre-stored icons

Barcode(CODE39、EAN13、EAN8、 CODABAR、 CODE128、 CODE93、 ITF)

### 2.2 Physical parameters

Size : 114 \* 85 \* 38 mm;

Weight :205g (without paper roll) ;

Roll diameter : ≤30mm;

Interface method: original IR(RAW\_IR),VIR,IrDA(Ir COMM),RS232 serial,Bluetooth ;

Interfaces are different by specific models. Look at model description.

### 2.3 Environment parameters

Work temperature: -10℃~50℃;

Work humidity : 20%~85%;

Store temperature : -20℃~70℃;

Store humidity : 5%~95%.

### 2.3 other performance

Paper loading method: clamshell paper loading;

Black label position: look at 4.2 pre-print black label instruction;

Paper detection: power button and function keys will flash and buzzer prompts when the printer runs out of paper.

Printing control commands: ECS/POS compatible instruction set.

Power supply method: 1200mAh lithium ion power.

Battery warning: when battery will consume, the charge indicator flashes and emit two short ringing. If user haven't charge, there will utter a ringing interval to prompt user to charge.

Charging : full charged within 2~4 hours.

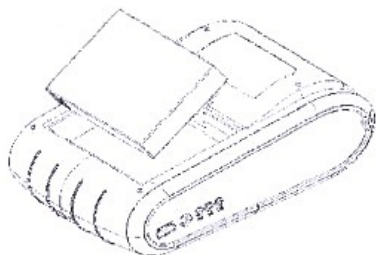
Time of a single charge can be use: on 12.5% print density 100~200m, on 25% print density 80~100m. This parameter is only for reference. After using the battery for long time, may lead to decline capacity so that can't sure the print time.



## ≡ Using method

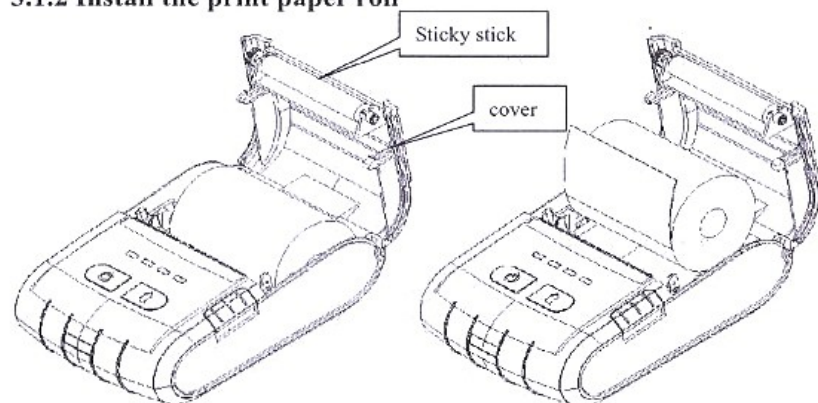
### 3.1 prepare before use

#### 3.1.1 Battery installation



- 1、 Open the battery cover then open the battery compartment cover
- 2、 As shown, put battery into the battery cover.
- 3、 Then close the battery cover.

#### 3.1.2 Install the print paper roll



#### Using method

- 1、 Hold up the lid button, a little forced to open the cover;
- 2、 As shown put paper roll into the warehouse. Pay attention to the direction of paper. Upside will lead can't to print;
- 3、 As picture shown pull part of the paper. Notice to pull paper out of warehouse;
- 4、 Straighten the paper roll then close the cover.

## 3.2 Basic functions of using

### 3.2.1 Power on

When turn off, press power button **【POWER】** for 2 seconds, the printer turned on and entering working state. The power indicator will (2<sup>nd</sup> red light) flash if there is no paper load. If the 1<sup>st</sup> indicator lighted on that mean the printer is running out of power. Please replace the battery or charge to continue to use. Charging method is in 3.2.5(charge).

### 3.2.2 Power off

When power on, press power button **【POWER】** for 2 seconds, the printer turned off . All lights extinguish.

### 3.2.3 Self detection

User can detect printer any time to detect the printer current settings and status.

Self detection method: Power off (if the printer is turned on) , then press **【FEED】** , then press **【POWER】** to turn on. Printer will print self-test page with current status of the printer and printer setting and print example.

### 3.2.4 Feeding (manual feed)

In normal operation, press **【FEED】** to start feeding. Feeding 250mm if there have print black label in printing paper that printer recognized. Printer will stop feeding automatically when printer feed to black label. Printer feed will not affect by black label if set feeding length to 0.

### 3.2.5 Charger

The printer's battery will be consumed after using for a time. When battery power is going to run out, the 1<sup>st</sup> indicator will light on, please charge the printer.

Charge as follow: Insert the charger's mains plug to electrical outlet of 220V、50HZ. Then insert charge plug into the charging socket begin to charge. In charging, the 3<sup>rd</sup> green indicator will light on until the battery was being full charged.

### 3.3 Print connection and print

#### 3.3.1 Serial port connection or USB connection

Please refer to the guideness

#### 3.3.2 Bluetooth pairing and print

MP300 portable mini-printer pair with master of driver before work .Pair process initiate by master.

Usual pairing as follow:

- 1、 Turn on the printer
- 2、 Master search external Bluetooth
- 3、 Select the MP300 printer if there has several external Bluetooth device.
- 4、 Bring in password "1234"
- 5、 Finished pairing.

Please look at the master Bluetooth function description about specific pairing method.

The printer must be power on in pairing.

Notice: Don' t turn on many printers at the same time when pairing. Or can' t determine which printer has paired success.

After pairing successful, other PC can still be paired with the printer. Each printer can pair with 8 PC machine. If pairing more PC, the PC paired with printer earliest will be delete automatically. At the same time, if PC need drive printer to print, need to re-pair.

Using Bluetooth interface to print

For PC with a virtual Bluetooth serial port(such as mobile phone of SMARTPHONE, POCKET PC, PALM, notebook computers), can send print data to P200 printer to print through virtual Bluetooth serial port after pairing successful. If the PC don' t have virtual Bluetooth serial port or need drive P200 mini-printer to print, please contact the PC supplier.

### 3.4 Light and buzzer signal instruction

Printer has one buzzer and four indicator lights to prompts user of printer's status. Indicator lights are used to represent the current status of printer. Buzzer used to indicate paper lack. Four indicator lights are low battery indicator, power light, charge indicator and Bluetooth connection indicator.

1 <sup>st</sup> red indicator	2 <sup>nd</sup> red indicator	3 <sup>rd</sup> green indicator	4 <sup>th</sup> green indicator	Working status
off	on	off	off	standby
off	flash	off	off	Standby and paper lack
on	on	off	off	Standby and Low battery
off	on	on	off	Standby and charging
off	on	off	on	Standby with Bluetooth connect
off	on	on	on	Standby with Bluetooth connect, charging

### 4 Other information

#### 4.1 Printer development manual

《development manual of portable mini-printer》 is a technical manual for developer to develop printer application, which can be obtained from your supplier. This manual contains technical description of hardware interface(serial communication interface, IR interface) of printer, technical document of print control instruction set and others such as how to print black label, how to use black label to locate.

#### 4.2 Pre-printed black mark instruction

Please comply with the following when user use pre-printed black label to locate notes or print black label. Or it may lead printer can't recognize the black label.

Pre-printed black mark specifications:

Printing position: Black mark should be printed on the left edge of text face.

Width range : width $\geq$ 7mm

Height range: 4mm $\leq$ height $\leq$ 6mm

Reflectivity of IR light: <10% (other parts of paper width of the black mark for reflectivity of IR light>65%)

Hps: Hps is distance between black mark's lower edge of printer with starting edge of the print.

0mm $\leq$ Hps $\leq$ 1mm