

ML60 Series Label Printer

User Manual

Pinsheng technologies Co., Ltd.

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Statement

The User Manual shall not be modified without permission, and Pinsheng technologies Co., Ltd. (hereinafter referred to as Pinsheng) reserves the right to change the technology, spare parts, software and hardware of the printer. For any more details related to products, please contact with Pinsheng or its agent.

Any chapters of the User Manual shall not be copied or transmitted by any means or manners without written permission from Pinsheng.

Copyright

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Trademark

Pinsheng 's registered trademark is:

MakeID

Warnings & Notes



Warnings are mandatory to prevent from damaging persons or devices.



Notes are important and useful for operating printer.

Pinsheng 's management system passes the following certification:

ISO9001:2015 Quality Management System

ISO14001:2015 Environmental Management System

Safety Instructions

Please read through the following before using printer:

1. Safety Warnings



Warning: print head is heating part, so please don't touch it and its surrounding parts during and after printing.



Warning: don't touch the print head and connector to avoid damaging it due to static electricity.

2. Notes

- 1) Reserve enough space around the printer for the convenience of operation and maintenance.
- 2) Keep the printer away from water.
- 3) Don't use and store the printer in the high-temperature, high-humidity and seriously polluted place. Moreover, avoid direct exposure to sunlight, glare and heat sources.
- 4) Avoid placing the printer at the place where there is vibration and impact.
- 5) Don't allow moist air to form condensation on the printer's surface. If any, don't turn on the printer until the dew has disappeared.
- 6) Connect the printer's power adapter to an appropriate grounded socket. Don't share the same socket with a large motor or other devices that can cause fluctuation in the power supply voltage.
- 7) If you do not use the printer for a long time, please disconnect its power supply.
- 8) Please turn off the power if water or any conductive material (such as metal) gets into the printer.
- 9) Don't use the printer with no media installed, otherwise the rubber roller and print head may get damaged.
- 10) For connecting or disconnecting ports, turn off the power, otherwise the control circuit of the printer may get damaged.
- 11) To prolong service life of print head, it's recommended to set a low printing density whenever printing quality is fine.
- 12) Don't disassemble the printer by yourself for repairing.
- 13) The User Manual shall be kept properly for reference.

1. General

1.1 Introduction

ML60 series label printer is capable of printing black mark label, gap label and RFID label; and it can be connected to PC or other mobile devices via Bluetooth or WiFi for printing, and meet your personalized demands.

It also provides the drivers in WINDOWS XP / WIN 7 / WIN 10.

1.2 Main Features

- ◆ 300DPI high-precision print head;
- ◆ Maximum print width at 76mm;
- ◆ Available for printing black mark label, gap label and RFID label;
- ◆ USB, WIFI / Bluetooth
- ◆ Available for APP/PC

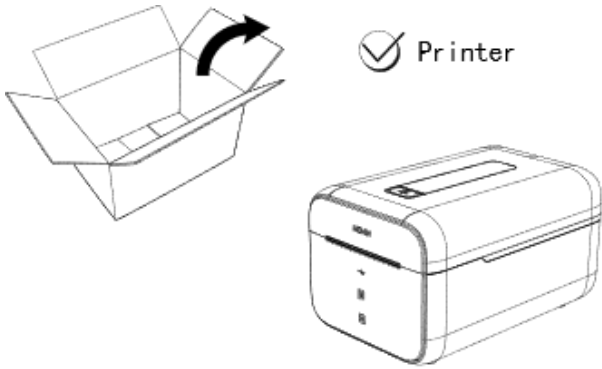
2. Main Technical Parameters

2.1 Specifications

Item		Parameter
Printing	Print method	Direct Thermal
	Resolution	300DPI
	Print width	76mm
	Print speed	100mm/s
	Paper detection	Photoelectric sensor
	Communication	USB, Bluetooth/WiFi (optional), ethernet
Bar code	Bar code	Code39/128, Codebar, EAN13/8/128, UCC-128, PDF417, QR Code2
Media	Medium type	Black mark label, gap label and RFID label
	Media roll outer diameter	Max. 100mm
	Media roll inner diameter	Min. 25.4mm
Power adapter	Input	100~240Vac
	Output	24Vdc, 2.5A
Environmental requirements	Operating	5°C~40°C, relative humidity at 30%~90%, without condensation
	Storage	-20°C~55°C, humidity at 20%~93%, without condensation
Physical property	Dimension	Length * width * height: 255mm*170mm*140mm
	Weight	About 1.78kg

3. Appearance and Components

3.1 Appearance and Components



✓ USB Cable



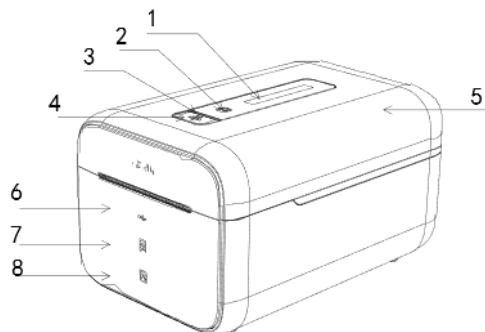
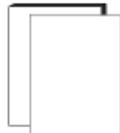
✓ Power Adapter



✓ Media for Test

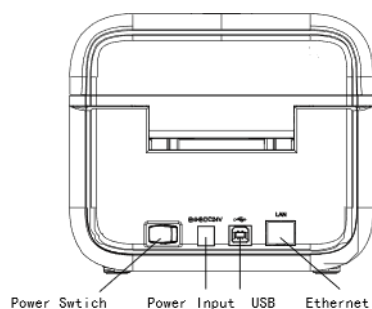


✓ User Manual
Warranty Card



1. Viewer
2. Touch button
3. Power indicator
4. Open button
5. Upper cover

- 6. Connection indicator
- 7. Media-out indicator
- 8. Exception indicator



3.2 Functions of Main Components

Power switch:

When the switch is set at “-”, the power is on; and when the switch is set at “o”, the power is off:

Touch button:

When the printer is on but not printing, press it to feed a gap label or continuous label, and then pause;

When the printer is printing, press it to finish printing the current label paper and then pause, and re-press it to continue printing.

Open button:

Press it to open the upper cover, and raise up the print head

Connection indicator:

If any device is connected to the printer via USB, Bluetooth or WIFI, it will be constant on; if no, it will be off.

Media-out indicator:

If no media detected, it will be constant on; else, it will be off.

Exception indicator:

In case of paper jam, high temperature of print head, RFID writing exception, it will blink; and when the cover is open or the printing is paused, it will be off.

4. Printer Setting

4.1 Printer Unpacking

Unpack the printer to check if there is missing or damaged parts against packing list. If any, please contact the agent or manufacturer.

4.2 Connecting of Power Supply

- 1) Connect the power adapter with socket cable, insert DC output terminal to printer , and power terminal to socket;
- 2) After confirm that the input power is on, set the power switch at “-”.



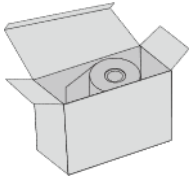
Notes:

- ☆ When handling the plug, hold its connector shell and do not pull at the cable.
- ☆ Don't drag the power line, otherwise damage the cable and cause fire and electric shock.
- ☆ Don't place the power around the overheating device, otherwise the cable surface will be molten and accordingly cause fire and electric shock.
- ☆ If you do not use the adapter for a long time, please disconnect the power line.

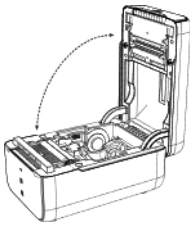
4.3 Connecting of USB Cable

- 1) Confirm that the printer is on;
- 2) Insert the USB TYPE-B into the printer;
- 3) Connect the USB TYPE-A to the computer .

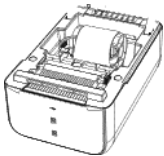
4.4 Media Installation/Replacement



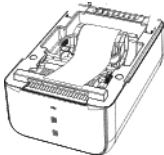
1. Take out media roll



2. Open the upper cover



3. Open splints and install media roll,



4. Fully cover rubber roll with the media



5. Close the cover



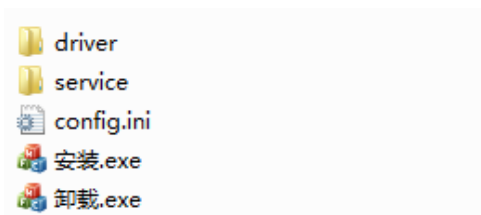
Notes: 1. The surface to be printed on should be upward)

2. Place the media to fully cover the rubber roll.

4.5 Installation of Printer Driver

Visit www.makeid.cn to download ML60 driver corresponding to your system

1. Double click the driver folder
2. Double click the installation (un-installation) icon



3. Finish installation (un-installation)

Note: if installation failed, restart your computer, run un-installation, and then run installation file again.

4.6 APP Installation

Scan barcode on printer or visit www.makeid.cn to download Android or IOS App

5. Printer's Daily Maintenance

The print head should be cleaned in case of any one of the following:

1. When the printed pages are unclear;
2. Where a vertical column of the printed page is not clear;
3. When a box of consumables are used up;

The steps to clean print head are as follows:

1. Turn off the printer and open the cover;
2. Use a soft (dry) cotton cloth dipped in anhydrous ethanol to wipe the dust or contaminations from the print head's surface.
3. Wait for 3-5 minutes and that the anhydrous ethanol completely evaporates, install the label box.



Notes:

1. For the printer's daily maintenance, make sure that the power is off;
2. The print head is a heating part.
3. Neither touch the surface of the print head with hands or metal objects nor scratch the surface of the print head, printing rubber roll and sensors with tweezers or other tools.

4. Do not use gasoline, acetone and other organic solvents;
5. Wait for anhydrous ethanol to evaporate completely, then turn on the power to continue printing.

7. Troubleshooting

Notes:

In case of fault, the following method may be used for handling. If you still can't troubleshoot it, please contact the agent or manufacturer.

Indicator State		Possible cause of fault	Handling
Connection indicator off		Unconnected by any device	Check and try to re-connect
media-out indicator on		Run out of media	Replace media
Exception indicator	on	The upper cover is not closed	Check and close the cover
		Printing paused	Continue printing
	blink	High temperature alarm	Continue printing after 2 minutes
		Paper jam	Open the upper cover to check media
		RFID writing exception	Check whether the RFID label is normal.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, Human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation