Fingerprint Identification Padlock MPL-2000

Operation Guide

v.1

Important information:

Please read the following information before using this product.

Limited warranty:

This warranty stated herein shall NOT apply, if: (1) this Product has not been used in accordance with any accompanying instructions, (2) this Product has not been used for its intended functions and environment, (3) damage or defects are caused by negligence, misuse or abuse, (4) if this Product has been opened, modified or repaired by anyone other than an authorised service centre, or if it is repaired using unauthorised spare parts; Or because of accident or other external factors causing malfunction or defects. All risk resulting from use of this Product in the above manner shall be borne solely by the end customer. The manufacturer shall not be liable for any loss or damages exceeding the value of the Product.

Warranty service:

· Please make sure the distributor's stamp and date of purchase appears on the bottom of this page, as your warranty card.
· This product includes one year limited warranty service for the product when used under normal operation and environment. (Product accessories, user manual are not covered by the warranty)
· Damage caused by improper use such as contact with oil or other fluids, contact with water, sudden shocks, crushing, ment exposure to abnormal temperature and humidity, abuse, natural disaster is excluded from warranty.

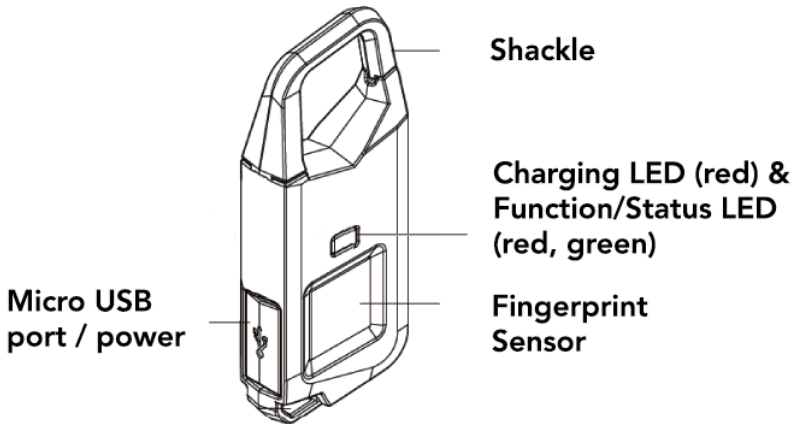Distributor stamp

Introduction

Shackle

Charging LED (red) &
Function/Status LED
(red, green)

Micro USB
port / power

Fingerprint
Sensor

Figure 1

Charge the battery:

Open the USB cover, then plug in the Micro USB cable connected to the external power supply (as in Figure 2). Press down once on the shackle. The LED will flash orange to indicate charging has begun. Charge the battery when:

1. Using the MPL-2000 for the first time
2. The battery capacity has reached the warning status of low battery (the red LED flashes 5 times when in fingerprint scanning mode)
3. The MPL-2000 is unable to start
   - Low battery status: red LED flashes 5 times
   - Charging: red LED lights up
   - Fully charged: red LED turns off

⚠️
- Low battery status: red LED flashes 5 times
- Charging: red LED lights up
- Fully charged: red LED turns off

Figure 2

- MPL-2000 uses a lithium-polymer battery. We recommend charging regularly in order to maintain the health of the battery, even when it is not in use.
- When battery capacity is low, it should be charged as soon as possible to avoid fully depleting the battery.
- If the MPL-2000 is not used or not charged for a long time, it is recommended that it be charged each month to avoid depleting the battery.

Unlock:

For fingerprint enrollment procedure, please see the section on Fingerprint Enrollment.

1. In the locked state, press the shackle once (as in Figure 3) to activate the MPL-2000. The green LED lights up and begins flashing green (flashing red indicates the battery is low). The MPL-2000 is now in fingerprint scanning mode. Press a registered finger on the sensor (as in Figure 4) to unlock the PL-1000. The green LED lights up and a beep sounds; then you can unlock the shackle using the shackle slide (as in Figure 5). Do not pull on the shackle until the LED stops flashing, as this will prevent it from unlocking.

2. When in fingerprint scanning mode, you must press a valid fingerprint on the sensor to unlock after you have successfully enrolled your fingerprints. (For detailed procedures please refer to the section on fingerprint enrollment.) When the green LED lights up and a beep sounds, you can unlock the shackle using the shackle slide (as in Figure 5).
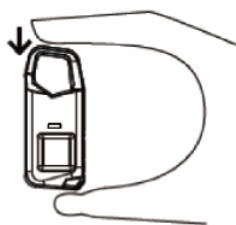
Figure 3   **Figure 4**   **Figure 5**

Green LED flashing

unlock

Green LED lights up

- Fingerprint scanning mode: green LED lights up and begins flashing.
- Unlock: ①green LED lights up for about 5 seconds ②a beep sounds.
- The first time you use MPL-2000, we recommend immediately completing fingerprint enrollment.

- MPL-2000 will be powered off automatically if no operations are performed before the green LED turns off, ending the fingerprint scanning mode or unlock phase.
- All procedures have time constraints. Please follow the instructions in this guide.

- Unlock failure: ①red LED lights up for 2 seconds ②4 beeps sound.

Lock:

In an unlocked state, pressing the shackle once (as in Figure 3) to lock MPL-2000. The red LED lights up for about 2 seconds and two beeps sound. The MPL-2000 will power off automatically.

· Unlock: ①green LED lights up for about 5 seconds ②a beep sounds
· Lock: ①red LED lights up for about 2 seconds ②two beeps sound

· All procedures have time constraints. Please follow the instructions in this guide

Fingerprint enrollment:

1. Please follow the unlock procedures to enter the unlocked state. Immediately after unlocking, the green LED will light up for approximately 5 seconds. During this time, press and hold the shackle down until the LED alternately flashes red and green and a beep is heard. The MPL-2000 has entered enrollment mode.
2. Press your finger onto the fingerprint sensor to scan your fingerprint. As soon as the green LED lights up and a beep is heard, remove your finger. Press your finger onto the fingerprint sensor to scan it again. The green LED will light again to show the scan was successful.Repeat until you hear a long beep. This means your fingerprint has successfully been enrolled into the MPL-2000. Each finger must be scanned at least 7 times to fully capture the fingerprint characteristics.
3. Once a finger has been enrolled completely and successfully, the LED will flash red and green again; repeat steps (2) and (3) to register other fingerprints. If you want to exit enrollment mode, press down on the shackle once. The MPL-2000 can store up to 30 sets of fingerprints. If the number of enrolled fingerprints reach 30, the MPL-2000 will sound 5 beeps, the red LED will light up for 5 seconds, and it will automatically return to enrollment mode.

4. In enrollment mode, when you press the shackle once or perform no operations for 5 seconds, the MPL-2000 will emit 2 beeps and automatically power off.LED alternately flashing red/green
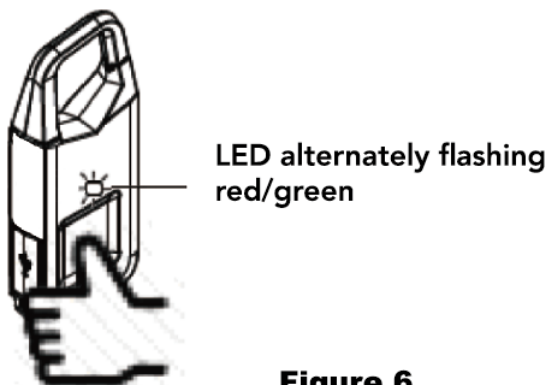

LED alternately flashing red/green

Figure 6

- Fingerprint enrollment mode: ①red and green LED flashes alternately for 5 seconds ②one beep sounds.
- During fingerprint enrollment, the same fingerprint must be registered at least 7 times for the input of the fingerprint characteristics to complete.
- When scanning the fingerprint, it should cover the entire sensor as much as possible.
- Fingerprint storage full: ①red LED lights up for about 5 seconds ②5 beeps sound.

- When in enrollment mode, press the shackle once or perform no operations for 5 seconds; the MPL-2000 will emit 2 beeps and automatically power off.
- All procedures have time constraints. Please follow the instructions in this guide.

- After the MPL-2000 stores 30 sets of fingerprints, it can no longer enroll new fingerprints.
- Children's smaller fingers, which can not effectively cover the fingerprint sensor, may fail to be recognized. It is not recommended for children to enroll fingerprints.

Clear all fingerprints:

Enter fingerprint enrollment mode and release the shackle. Then press and hold the shackle down until the red LED lights up and a long beep sounds (approximately 2 seconds), then release the shackle. All fingerprints have now been cleared. The MPL-2000 will exit enrollment mode and automatically power off.

- Fingerprint enrollment phase: ①red and green LED alternately flashes for 5 seconds ②one beep sounds

- All procedures have time constraints. Please follow the instructions in this guide.

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iKey –
a backup solution to unlock the padlock

Transmit port
on/off switch

1. Open the USB cover
2. Press the shackle of MPL-2000 once for the LED indicator to start flashing green
3. Point transmit port of the IR key towards the sensor window (as pictured above), then press the on / off switch of IR key to unlock the padlock; this should occur immediately.

Appendix A:
Troubleshooting

The padlock won't unlock despite successful fingerprint identification

Please make sure there is no external tension on the shackle; applying tension to the shackle will affect the motor's unlocking function.

If you do encounter the above situation, please try the following:

1. Press the shackle once again to lock the MPL-2000.
2. Try to unlock the padlock again but be sure to avoid applying tension to the shackle.

Nothing happens when placing my finger on the fingerprint sensor

Please make sure that you press the shackle once to get power. To save power, the MPL-2000 will automatically power-off after 5 seconds of inactivity.

If you do encounter the above situation, please try the following:
1. Press the shackle once
2. Press your fingerprint to unlock.

If the MPL-2000 is running low on battery, you'll need to charge it first by using the USB cord to connect to a power supply.

My fingers aren't being identified

Make sure your fingers are not wet or sweating.

Make sure enough pressure has been applied to the sensor. It will misidentify if there is not enough pressure applied to the sensor.

Make sure the fingerprint(s) you are using for identification were enrolled successfully.

Make sure the area of the finger you are trying to sense is the same as what you had enrolled.

I cannot register my fingerprints

Make sure you haven't already reached the maximum 30 fingerprints that can be enrolled. In this case, you'll need to clear the enrolled fingerprints for space to add new fingerprints.

I'm getting no response from the padlock

Check the battery power and use the USB cord to charge the padlock before trying again.

Use a sharp object to press the reset button. Occasionally, the padlock may stopfunctioning due to external interferences from electromagnetic waves, static electricity, etc. In this case, the reset button must be used to restore normal operation.

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📖 User manual

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