



RAY10

User Manual



RAYPOS
by SCSpro

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Preface

This User's Guide gives information about main unit , installation, and configuration of Android Smart POS 'RAY10'.

Intended Audience

The User's Guide is intended for technically qualified personnel.
It is not intended or general audiences.

Document Organization

The chapters in this Product User's manual are arranged as follows:

1. product package contents
2. Installing and Replacing
3. Product specification

RAY10 User Manual Revision History

Changes to the RAY10 User manual are listed below.

No.	Revision date	Revision History
01		
02		
03		
04		
05		
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Copyright

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RAYPOS Co., Ltd. are trademarks in the South Korea and other countries.

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Warranty

We guarantee our Smart POSI product and its parts against defects in materials and workmanship, under proper use, for a standard period of 1year from the original date of purchase.

Products out of the warranty period or scope shall be diagnosed at the customer's expense.

In the case of product damage due to error on part of the consumer, incorrect usage, carelessness or natural phenomenon, the customer shall bear the full cost for both repair and delivery.

Safety Instructions

1. Please be sure to be comply with the specifications in this document.
2. Do not use in proximity of potentially flammable gases or substances,
3. Do not disassemble the terminal, power adapter or battery.
4. Cut off the power immediately, when there is unusual smell, overheating or smoke.
5. There is a risk of explosion if the battery is incorrectly replaced or is placed in a fire.
Life-ended batteries must be disposed of at the appropriated sites.
6. Do not use in a near water or humid environment to prevent liquid from entering the device.
7. Do not use the terminal in extremely cold or hot zones, such as near a fire.
8. Do not drop.
9. Use in clean environment to avoid entry of small objects into POS.
10. Do not use near hospital equipment equipment without permission.
11. Do not use terminals with radio communication on or near the aircraft, or in any other place where radio communication is prohibited.


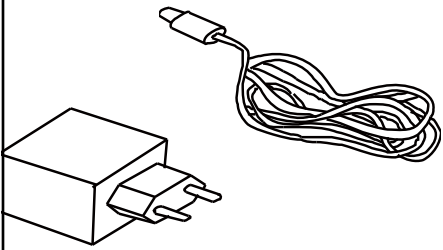
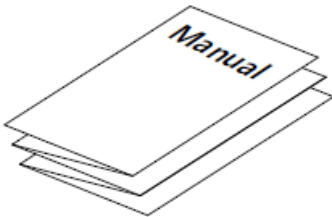
Specification

RAY10	
Processor	Cortex Quad-core A53 2.0GHz
O/S	Android 13
Memory	eMMC 2GB(up to 4GB) / DDR4 16GB(up to 64GB)
Display	6.5-inch TFT IPS, 720 x 1600, Multi-touch
Data Communication	WIFI 802.11b/g/n 2.4G or5G, Bluetooth 5.0 4G (LTE-FDD/LTE-TDD) + 3G (WCDMA) + 2G (GSM)
Camera	Rear Camera: 5MP autofocus, 1D/2D Barcode Front Camera: 2MP, Support 1D/2D Barcode
Peripheral ports	1 x Type C port (OTG), POGO Pin(F) x16
Card Slot	Micro SD x 1, Nano USIM x 1 + eSIM x 1, SAM slot x 2
Barcode Reader	1D/2D Reader, CMOS Camera, 640×480 pixel
Sound	1W Speaker
Buzzer	Microphone
Power	5.0V DC, 2.0A Adapter 3.8V/3200mAh Battery
GPS	Beidou/GLONASS/Galileo/ QZSS/SBAS
Dimension & Weight	175 .0 x 80.0 x17.3 (mm, Lx W x H), 300g
Payment Solution	IC Contact ISO7816 NFC ISO 14443 Type A/B, Mifare, Felica, ISO18092 MSR ISO/IEC 7811, ISO/IEC 7813, Track 1/2/3, Bidirectional
Certification	PCI PTS V7, EMV Contact L1, EMV Contact L2, EMV CL1. Felica AMEX VISA, MASTER, JCB, Discover CE, FCC, Telec, KC, TQM
Environment	Operation Temp. 0°C to +50°C Storage Temp. -20°C ~ 70°C Humidity 5%-96% (Non-Condensing)

1. Product Overview

(1) Inside Your Package

- 1. Please check your package and confirm its contents.
 - 2. The Smart POS terminal main unit, adapter, power cable and user manual are included in the package. If any items are missing or damaged, please contact your dealer for assistance.
- » All user manuals are available for download on our website: www.rayposww.com

RAYPOS Main Unit	Adapter / Power cable
	
Installation Guide	
	

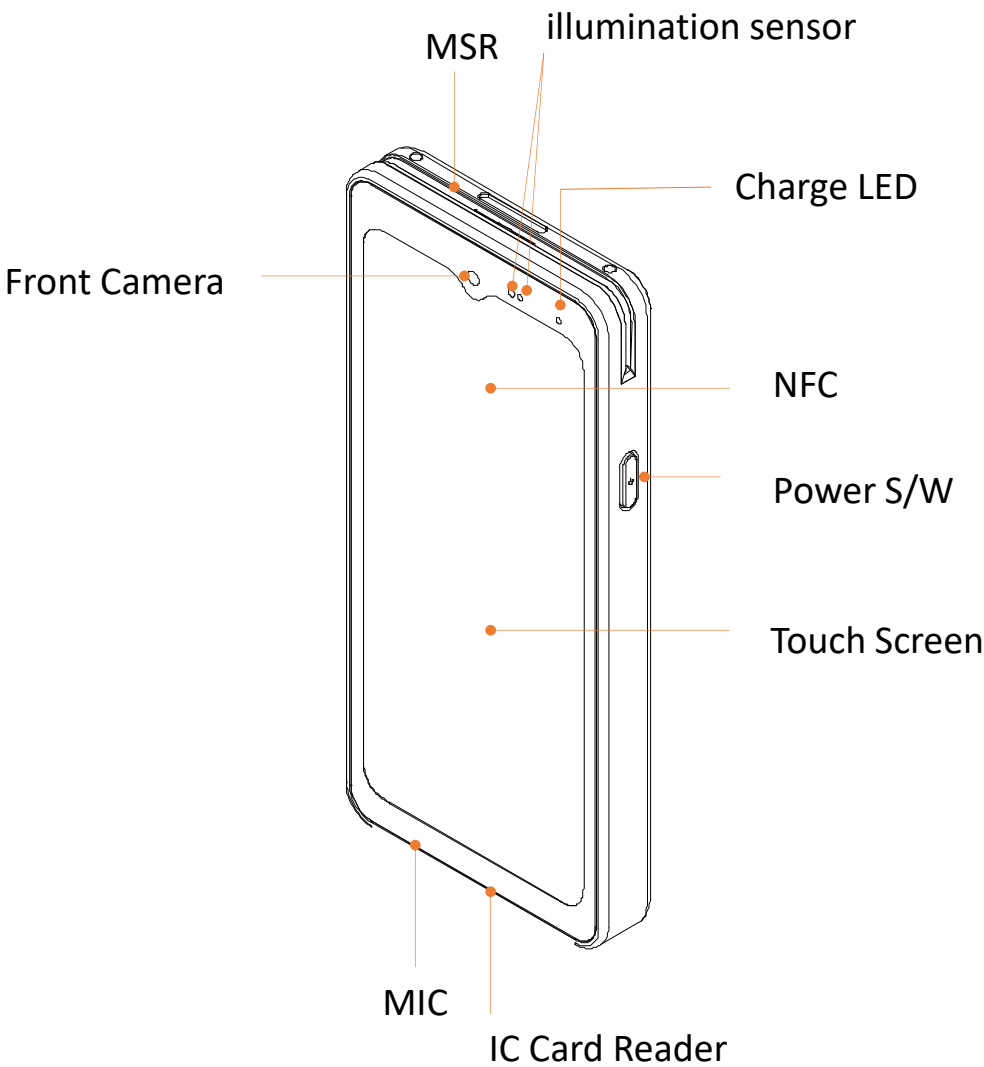
(2) Product Outline

- This is a new Smart POS terminal - RAY10. It has various optional configurations and accessories. Please refer to this manual for the best usage of the product.
- Read this manual to understand and make the best use of your terminal. It presents you the necessary information about use, installation, maintenance, safety and security recommendations
- Model-specific data sheets are provided on our website at www.rayposww.com

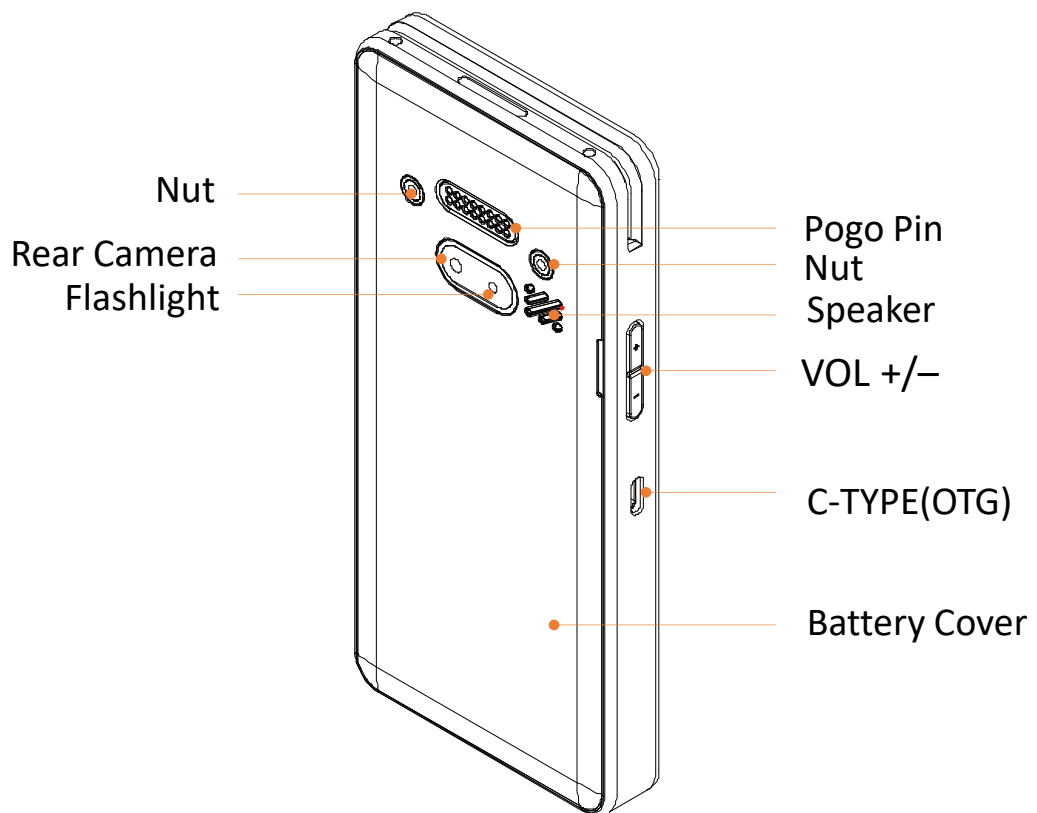
(3) Configuration

Refer to following diagram to identify the components on this side of the system.

Front view



Rear view



(4) Environment

- Recommendations

The terminal should be kept away from very hot environment and protected from vibrations, dust, damp or electromagnetic radiation (like computer screen, wireless intercom etc.)

- Environment condition

Operating temperature	0°C to 50°C
Storage and transportation temperature	-20°C to 70°C
Relative humidity	5%-96% (Non-Condensing)
Battery charging conditions	0°C to 45°C

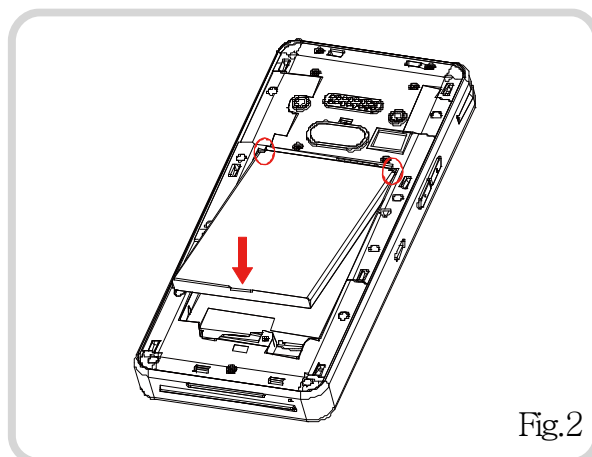
2. Installation Instruction

(1) Battery Installation

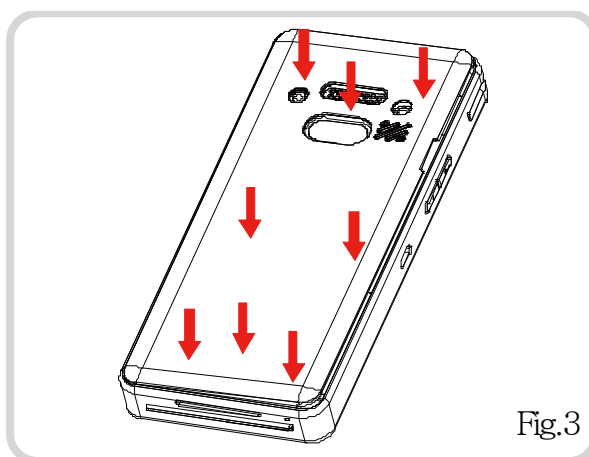
Step 1. Turn the terminal upside down and remove the battery cover.(Fig.1)



Step 2. Place the battery into the battery compartment. Pay attention to the contact direction of metal contacts of the battery(Fig.2)



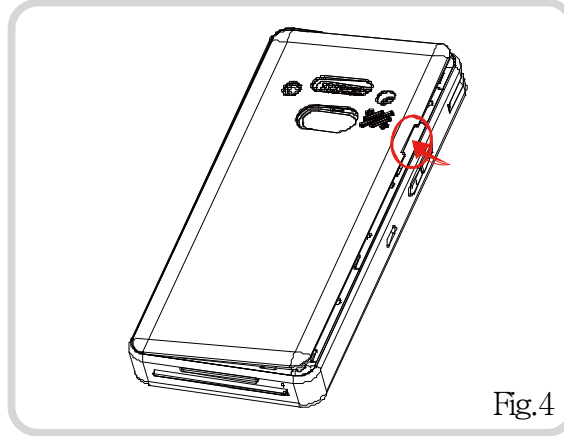
Step 3. Close the battery cover. (Fig.3)



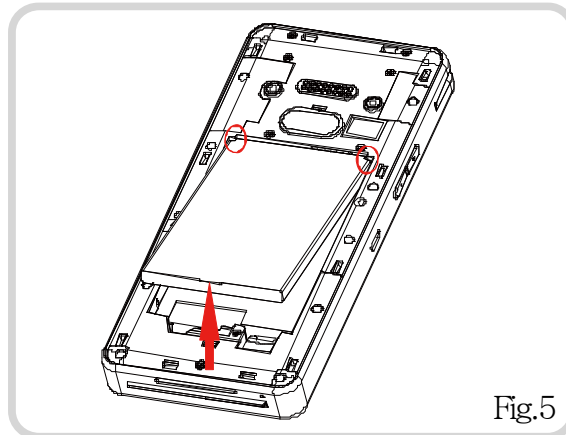
(2) SAM/SIM/ Micro SD Card installation

The user shall install SIM Card, Micro SD Card or SAM Card under the battery. To install the Cards, The user must remove the battery first.

Step1. Turn the terminal upside down and remove the battery cover.
(Fig.4)

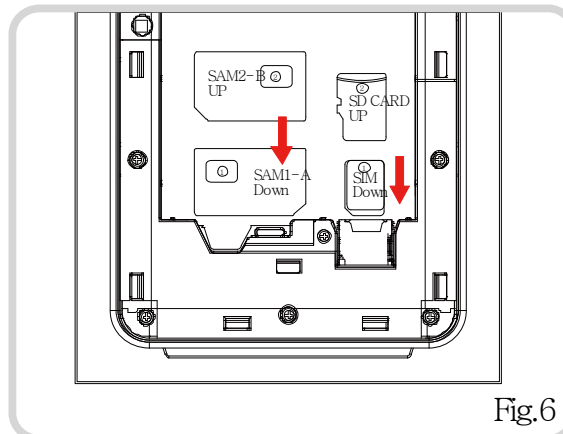


Step 2. Lift and remove the battery.(Fig.5)



Step 3. According the SIM/SAM/Micro 3D Card position of the engraved marks, or pated on the lower housing, Install the required cards. Be sure to put the cut corner as indicated on the engraved or pasted marks.(Fig.6)

Step 4. Place the battery and put the battery cover back according to the Battery installation.



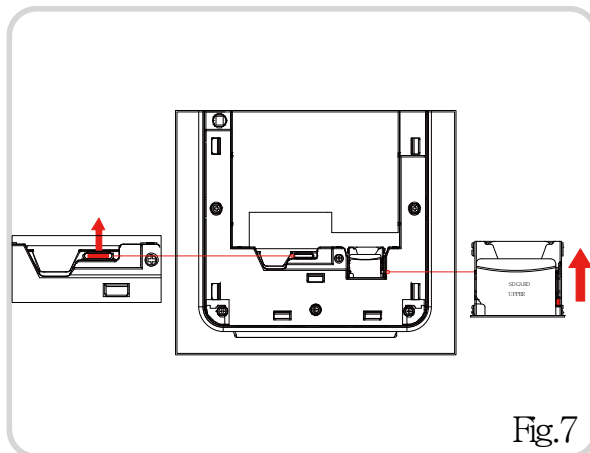
(3) Replacing SIM Card/SAM Card/Micdo SD Card.

Step1. Turn the terminal upside down and remove the battery cover. Lift and remove the battery according the the SAM/SIM/ Micro SD Card installation.

Step 2. Take out the USIM chip form the bottom.(Fig.7)

※Caution

- a. SIM/SAM/SD are selected subject to the product configuration.
- b. The SAM card can be configured as SIM2.

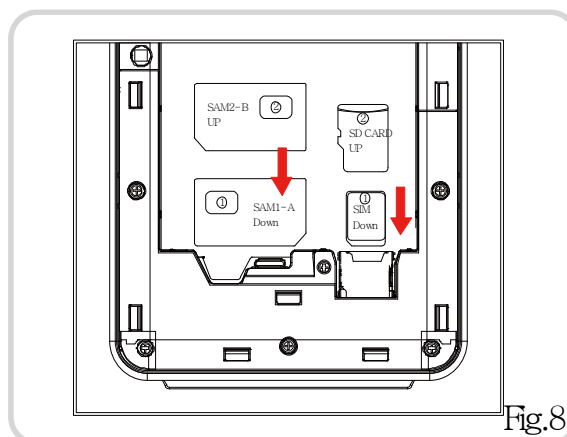


Step 3. Replace the SIM/SAM/Micro SD Card according to SAM/SIM/Micro SD Card installation.(Fig.8)

Step 4. Put the battery back and close the battery cover according to the Battery installation.

※Caution

- a. SIM/SAM/Micro SD Card are selected subject to the product configuration.
- b. The SAM card can be configured as SIM2.



(4) Power on/off the Terminal

1. Power on : Press power button for about 2 seconds till the LCD is lit to switch on.
2. Power off : Press and hold power button until the pop-up window is displayed, touch the screen to select "Power off" to power of the terminal. (Or to select "Reboot" and then "OK" to reboot the terminal.)
3. Note : If there is a crash, please press power button for about 10 seconds to reboot the terminal forcibly, or re-plug the battery then boot the terminal.

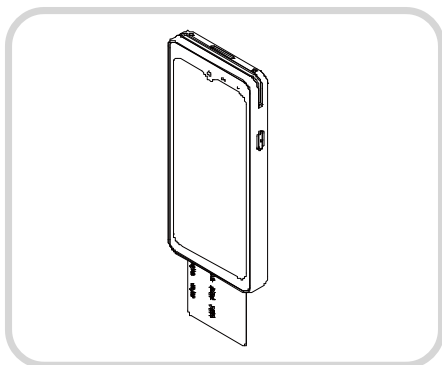
(5) Charging the Battery

1. Place the terminal on the charging base (if available) or connected to the adapter to charge the battery.
2. Tips:
 - Please charge the new battery then- use. Uninstalled the battery, if there is a long time for no use.
 - A fully discharged battery may need 4 hours charging time to recover.
 - Do not charge the battery for a long time exceed 8h.

※ WARNING:

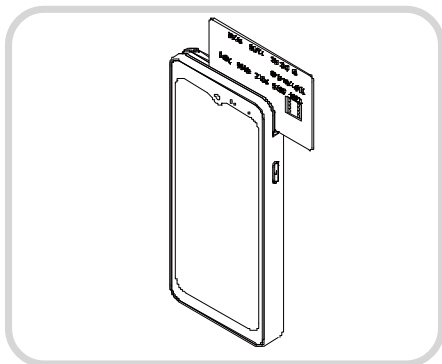
Use the original battery and power adapter of SCSpro CO., LTD. only. The use of other batteries or power adapters may result in damage to and even explosion of the terminal and battery. Charge the terminal under the specified ambient conditions. The terminal will be prohibited charging by hardware whether the temperature is too high or too low.

(6) Reading Card



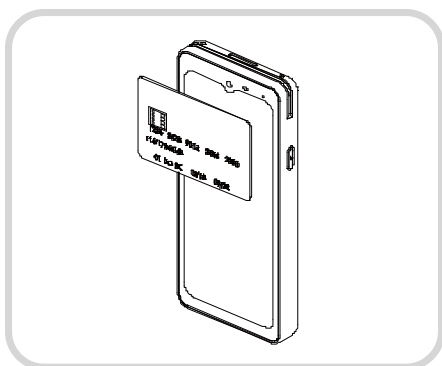
Chip card

Insert the chip card into the terminal as shown by the arrow on the slot with its contact surface (chip) facing up. Do not remove the chip card during the transaction.



Magnetic stripe card

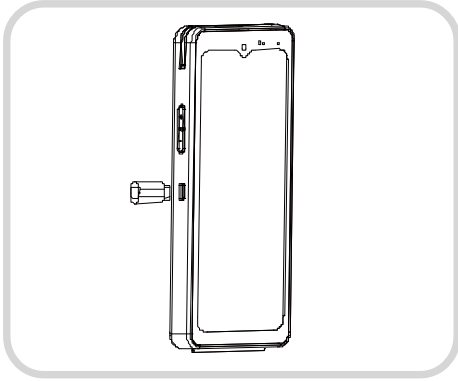
Swipe the magnetic card along the slot with its band facing down. Keep the swiping speed uniform as much as possible. It is allowed to swipe the magnetic card from left to right or from right to left. Use a regular movement in order to ensure a reliable card reading.



Contactless card

Bring the card firmly up to the NFC reader, keep the card close to the reader during the transaction. The LED indicator at the top of the terminal will indicate the transaction state during the transaction.

(7) External Connections



1. Connect PC and POS terminal for maintenance and download.
2. Connect the power adapter and POS terminal for charging.
3. If you need to connect other peripherals, please contact terminal providers.

⌘ **WARNING:**

Do not connect any peripheral equipment that has not been authenticated by the SCSpro CO., LTD. to avoid damage.

3. Maintenance

Safety Warning

RAYPOS will not be held responsible for repairs conducted via USER providers other than those officially specified by the seller.

General Guidelines

1. Always disconnect the unit from the power outlet.
2. Disconnect all cables from the POS main unit before attempting repair.
3. Keep all components in the static-proof packaging provided until ready for installation.
4. If the device still is not functioning after repair, please turn off the POS unit and contact the customer USER center at RAYPOS website [www.rayposww.com] for technical consultation.
5. We recommend that power supply unit (PSU) checks and monitor repairs only be performed at a certified USER center.

4. Security of Your Terminal

Your terminal fulfills current applicable PCI PTS security requirements. Upon receipt of your terminal, you should check for signs of tampering. It is strongly advised that these checks are performed daily after receipt. (Be sure the circumstance is brightness or you may use a light tool as well) :

1. Check the product name and the hardware version on the label to ensure the product is correct.
2. Check if there are bugs hidden in the IC card slot before IC card is inserted.
3. Check whether the magnetic card slot has the exception of adding magnetic head.
4. Check the appearance of the product to guarantee the device without being modified.
5. Before entering the PIN, the user should be aware of his/her surrounding and use the body, fingers or protection to block the voyeur's sight.
6. Can't read the magnetic card or the card swiping has a low success rate
 - Check that the magnetic card is swiped correctly (with magnetic band facing down).
 - Check if there any bugs or dirt on the magnetic head. Please clean it
7. IC cards can't be read
 - Make sure you have inserted correctly the Chip card into the chip card reader (with the chip facing up).
 - Check if the card slot is blocked or if the card is in correct position.

5. Troubleshooting

The terminal does not turn on

1. Check if the battery is installed correctly
2. Please charge the battery to check if it is fully discharged.

Battery life is significantly reduced

1. Check if the battery is fully charged.
2. Battery life expires, please replace the battery.

Can't read the magnetic card or the card swiping has a low success rate

1. Check that the magnetic card is swiped correctly (with magnetic band facing down).
2. Check if there any bugs or dirt on the magnetic head. Please clean it.

IC cards can't be read

1. Make sure you have inserted correctly the Chip card into the chip card reader (with the chip facing up).
2. Check if the card slot is blocked or if the card is in correct position.