



用“新”引領科技 用“心”服務你我
Service from our heart Technology be state of the art

T1000 EFT-POS



Installation Guide
Version 1.0



SPECTRA Technologies
ISO9001 : 2008
20002812 QM08



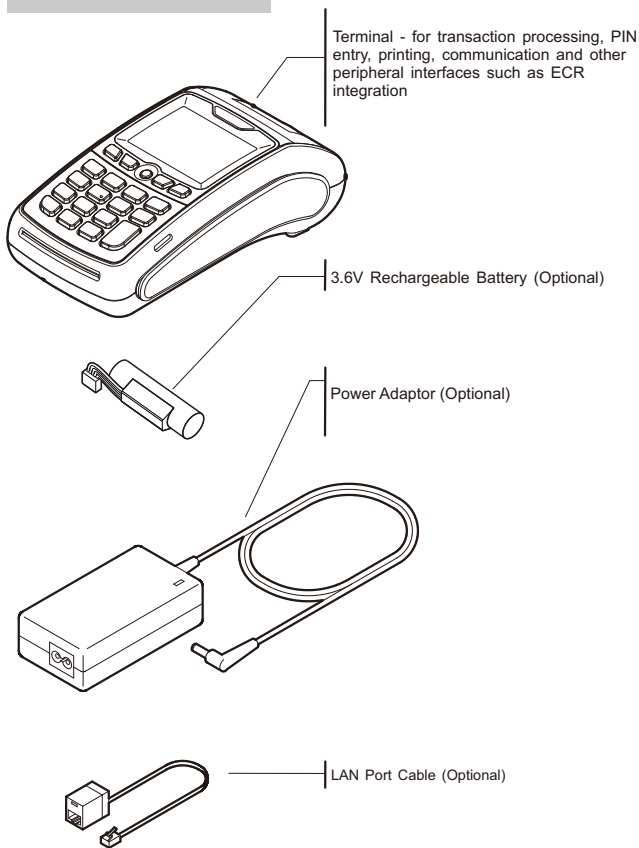
SPECTRA Technologies
ISO14001 : 2004
20002812 UM

Table of Content

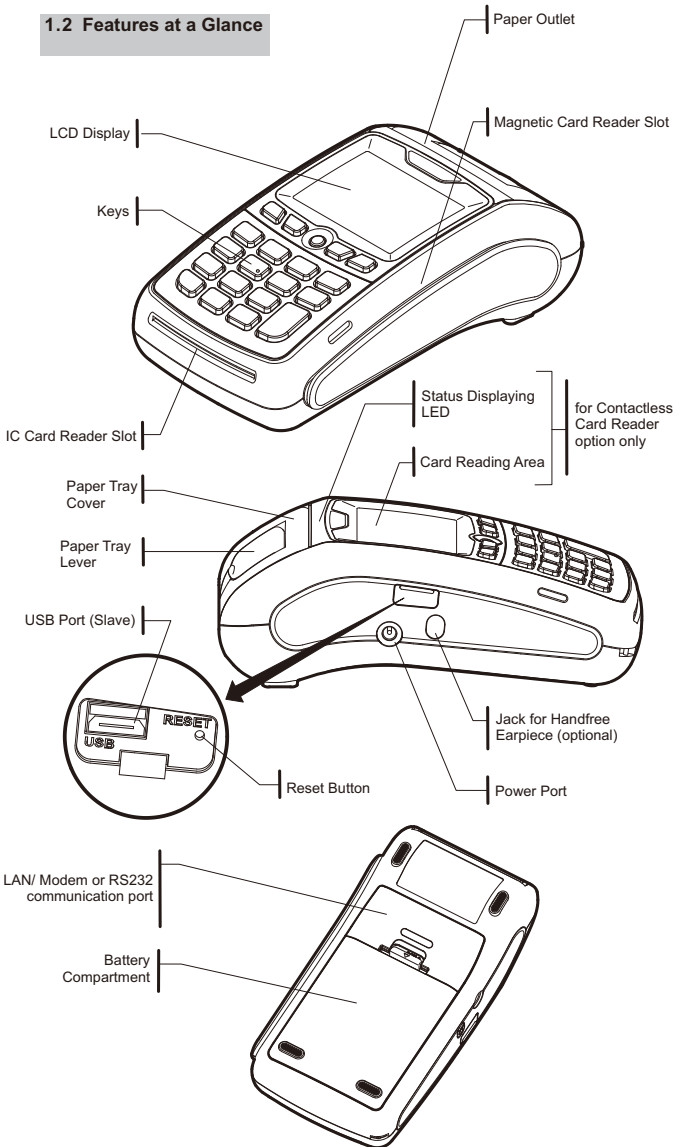
1. T1000	2
Layout & Function Descriptions of T1000	
1.1 Main Unit & Accessories.....	2
1.2 Features at a Glance.....	3
1.3 Installation of SIM, SAM & Micro-SD Card.....	4
1.4 Battery Installation.....	4
1.5 Paper Feeding Procedure.....	5
2. How to Operate.....	6
2.1 Turn On/ Off Procedure.....	6
2.2 Swipe Card & Insert Card.....	6
3. Rechargeable Battery Safety Guideline.....	7
3.1 Prohibition.....	7
3.2 Battery Operation & Charging Guideline.....	8
3.3 Terminal and Battery Storage Guideline.....	8
3.4 Accident Handling.....	8
3.5 Battery Disposal.....	8
4. Safety & Maintenance.....	9
4.1 Basic Safety Practice.....	9
4.2 Safety Warning.....	9
4.3 Location for Installation.....	10
4.4 Maintenance.....	10
4.5 Trouble Shooting.....	11
5. Other Information.....	13

1 Layout & Function Descriptions of T1000

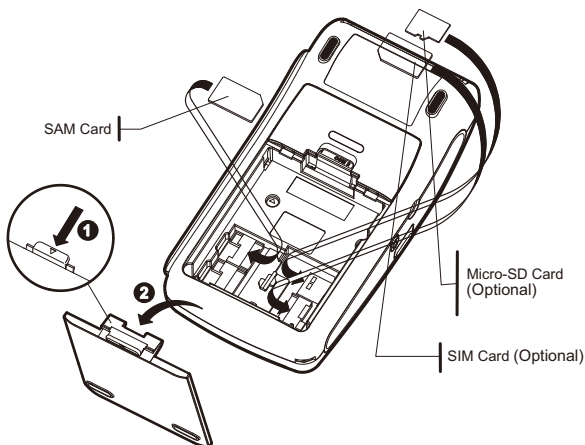
1.1 Main Unit & Accessories



1.2 Features at a Glance

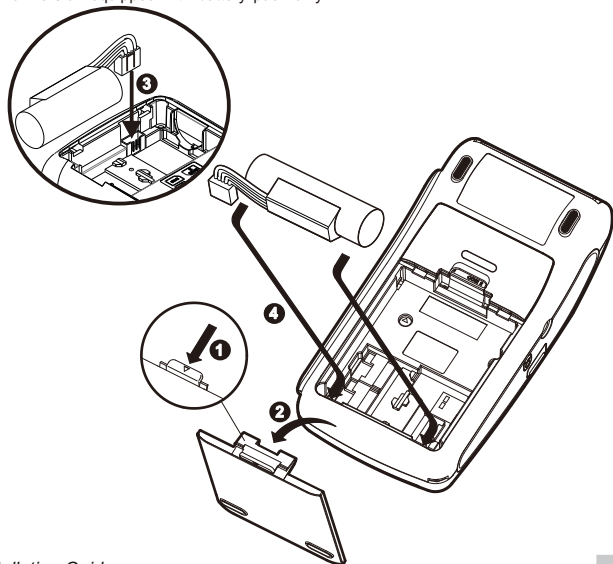


1.3 Installation of SIM, SAM & Micro-SD Card



1.4 Battery Installation

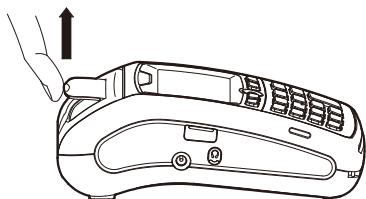
for version equipped with battery pack only



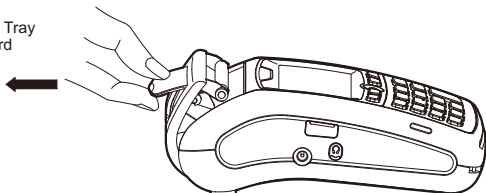
1.5 Paper Feeding Procedure

1

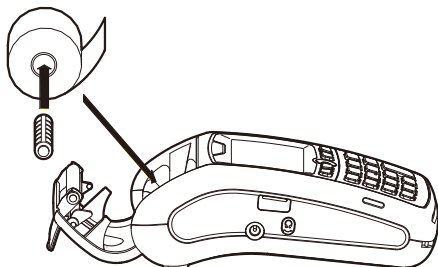
Lift up the Paper Tray Lever

**2**

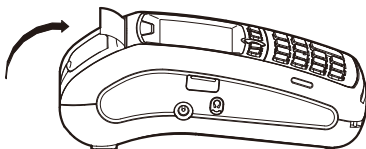
Pull the Paper Tray Lever backward

**3**

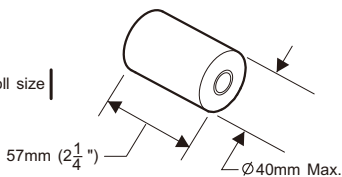
Place the paper roll into the tray as shown

**4**

Close the Paper Tray Cover





Paper roll size



2 How to Operate

2.1 Turn On/ Off Procedure

- If the terminal is equipped with charging battery during first time use, please connect the power adaptor and charge the battery for 3 hours.
- On - Power is on whenever plugged. If the terminal is unplugged, press the  key for several seconds to turn on the terminal. When the terminal displays the application idle screen, it is ready for operation.
- Off - Disconnect the power adaptor. Keep on pressing the  key for several seconds to turn off the terminal.

2.2 Swipe Card & Insert Card



3 Rechargeable Battery Safety Guideline

3.1 Prohibition: Improper handling of the Li-ion battery is hazardous, the following forbidden activities must be avoided:

- DO NOT use NON-SPECTRA provided battery in SPECTRA POS Terminal
- DO NOT use a charger that is not specifically designed to charge Lithium Battery
- DO NOT operate the terminal, charge up or store the battery under high temperature (under direct sunlight or inside a roasting vehicle) or close to heat source (fire, heater)
- DO NOT store the battery in the external charger. After charging up, the battery should be removed, even though power is disconnected
- DO NOT use damaged battery, e.g. Swelled, case broken, strange odor and chemical leakage
- DO NOT knock, crash or press the battery
- DO NOT submerge the battery into water
- DO NOT heat the battery or dispose in fire
- DO NOT solder the battery
- DO NOT disassemble the battery
- DO NOT short or puncture the battery

3.2 Battery Operation & Charging Guideline

- The best temperature for battery operation is 0°C ~ 40°C. DO NOT place the terminal in hot space or poor ventilated space. Ensure good ventilation for cooling
- DO NOT leave battery un-attended when charging. You should closely monitor the charging process & react to potential problem should they occur
- Do always check that batteries are physically and electrically undamaged before charge or discharge
- Battery charging must be kept away from inflammable material and on a non conductive and nonflammable stable surface by:
 - > Terminal built-in charger: install battery to the terminal, then apply power.
 - > SPECTRA supplied external charger
- When new terminal is received, please charge the battery fully up
- If the battery gauge indicates battery low, charge up the battery at once
- Battery always self-discharges. Long period of discharging will deteriorate the capacity and life of the battery. Please re-charge the battery weekly for normal operation

3.3 Terminal and Battery Storage Guideline

- If the battery will not be used for a long period, please charge it to only 50% of the battery capacity (battery indicator displays half full, 2 units); remove it from the terminal and store in a cool place. This can minimize the life deterioration caused by self-discharge
- DO NOT store bare battery together with metal, avoid humid and hot storage
- During storage period, please recharge the battery once every 3 months

3.4 Accident Handling

- During charging, if the battery or the charger exhibits any abnormality such as overheat, fuming, swelling & chemical leakage, disconnect power immediately, remove the battery from the charger, put it in a safe place and advise the supplier
- Li-Polymer Battery does not contain liquid electrolyte. Just in case human body touches the electrolyte, rinse with water and seek medical advice immediately
- Batteries having electrolyte leakage or chemical odor must be distant from fire source to prevent explosion
- If accidentally short the battery, put it in a non-conductive container and keep it away from flammable objects

3.5 Battery Disposal

- Protect your lovely Planet, please dispose the old batteries according to Government regulations

4 Safety & Maintenance

4.1 Basic Safety Practice

While using T1000 and its accessories, please follow the safety instruction to avoid fire, electric shock and personal injury.

- Read this instruction in detail
- Disconnect the power and accessories before cleaning, use dry flannelette and soft brush for cleaning
- Do not put the terminal near water
- Do not spray any liquid onto the terminal
- For desktop purpose, put the terminal on stable platform to avoid damage by drop
- Keep the terminal away from high temperature and poor ventilation area
- Ensure electricity supply is safe and stable
- To avoid electric shock, do not disassemble the terminal by yourself. Send it to agency for repairing if necessary
- Do not use T1000 and its accessories during explosive gas leakage
- For modem version, do not install telephone line during lightning
- If possible, disconnect telephone line before storming to avoid electric shock
- For the following cases, disconnect power, other accessories and send for repairing,
 - ~ Damage on power cable or plug
 - ~ Liquid get into pinpad
 - ~ Pinpad gets wet in raining
 - ~ Still abnormal function after following all the instruction mentioned
 - ~ Pinpad broken
 - ~ Pinpad obvious abnormal

4.2 Safety Warning

- Using the provided T1000 power adaptor to power the terminal
- During using wireless communication, keep human body at least 1.5 cm apart from the terminal. Keep the terminal away from other antenna or wireless device.
- Do not touch the thermal printer head and paper cutter

4.3 Location for Installation

- Should be safe and convenient for operators and users
- Should be placed on stable working platform during desktop operation for ease of power and accessories connection
- Good ventilation and should have 22cm space around the pinpad
- DO NOT expose the terminal in following environment
 - ~ Near electrical appliance with high frequency EM wave such as air conditioner, electric fan, motor, neon sign etc.
 - ~ Liquid container such as water trough, sink, pond etc.
 - ~ High temperature or humidity place
 - ~ High containing of VOC, salty and dusty area
 - ~ Sunlight or high thermal radiation area
 - ~ Near demagnetizing system and magnetic security system

4.4 Maintenance

T1000 has been designed to provide stable service for users with less maintenance.

In order to ensure best performance, we suggested the followings.

- Avoid exposing in sunlight, high temperature, high humidity and dusty area
- Keep in dry, clean and tidy environment
- Do not keep in extreme hot and cold place
- Do not disassemble the AC/DC power adaptor
- Do not impact and thrash the terminal heavily
- Do not disassemble the terminal (except opening the Battery Cover). Disassembling will erase all data and lead to abnormal running

Cleaning of T1000

- Use flannelette to remove dust on terminal
- Use mild alcohol to remove stubborn stains
- If possible, use low pressure blower to blow out dust on keypad
- Use flannelette or lens cleaning paper to clean the display

Printer Cleaning

- Disconnect power cable from the terminal
- Open printer cover, take out paper and roller
- Remove dust and paper scrap inside paper tray . Use low pressure blower to clean the paper tray if possible.
- Do not touch the thermal printer head and paper cutter during cleaning
- Put back paper and roller into paper tray
- Close the printer cover

Send for repairing

- If it is necessary to send back T1000 for repairing, please contact agency, pack the terminal properly (use original packing material if possible) to avoid damage during transportation

4.5 Trouble Shooting

T1000 has been designed to provide stable service for users. However, there would be some minor problems during in use. Before sending back for repairing, users can try the following simple procedures to fix the problems themselves

Terminal not function

- 1, If it is powered by power adaptor, check whether the connection of power cord or power adaptor is connected properly
- 2, If it is powered by power adaptor, try to check whether the AC source is error free by plugging with other electrical appliance
- 3, If it is powered by power adaptor, try to replace the adaptor with another one
- 4, If it is powered by power adaptor, try to replace the electric power socket with another one
- 5, Try to adjust the LCD contrast
- 6, Contact agency if problem cannot be solved

Unsuccessful transaction

- 1, Try to use other magnetic card or IC card for transaction
- 2, Check whether the way of swiping card or inserting card is correct
- 3, Check whether all wire ends are connected properly
- 4, Contact agency if problem cannot be solved

Malfunction on printer

- 1, If the terminal is powered by battery, check the battery level and charge the battery, replace new battery or else power the terminal by adaptor.
- 2, If it is powered by power adaptor, check whether the connection of power cord or power adaptor is connected properly
- 3, Open printer cover, check whether the paper is used up
- 4, Check whether the way of paper feeding is correct, please refer to section 1.5
- 5, The printer accepts thermal paper only, check whether the paper roll is the correct type, please refer to section 1.5
- 6, Check whether the paper is jammed or damaged. Try to open the printer cover and smooth the paper path.
- 7, Contact agency if problem cannot be solved

Malfunction on magnetic card reader

- 1, Check whether the way of card swiping is correct, speed is normal, please refer to section 2.2
- 2, Try to swipe in opposite direction
- 3, Try to use another card
- 4, Contact agency if problem cannot be solved

Malfunction on IC card reader

- 1, Check whether the way of card insertion is correct, please refer to section 2.2
- 2, Check whether the card is completely inserted
- 3, Try to use another card
- 4, Contact agency if problem cannot be solved

5 Other Information

Dimensions & Weight

Size: 171 (L) x 88 (W) x 61 (H) mm
(Excluded protruded part)

Weight: 480g (Terminal with battery)

Operating environment

Temperature: 0°C - 40°C
Humidity: 0% - 85% (non-condense)

Power input

DC 9.5V, 2.4A

Message for product approval

This product complies with the following standards

- CE approval

 0700

- FCC approval

- This manual is subject to change without prior notice

EU Regulatory Conformance Hereby, SPECTRA Technologies Holdings Co., Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Safety Information and Notices

Failure to comply with the following precautions may be dangerous or illegal.

Never attempt to disassemble your phone. You alone are responsible for how you use your BT Smart Watch and any consequences of its use.

As a general rule, always switch off your BT Smart Watch wherever the use of a BT Smart Watch is prohibited. Use of your BT Smart Watch is subject to safety measures designed to protect users and their environment.

Do not use your BT Smart Watch in damp areas (bathroom, swimming pool...). Protect it from liquids and other moisture.

The max. recommended temperature is +40°C.



T1000 EFT-POS



SPECTRA TECHNOLOGIES HOLDINGS CO.LTD.

Unit 1301-09,19-20, Tower II, Grand Century Place,
193 Prince Edward Road West, Kowloon, Hong Kong

Tel : (852) 2319 2918

Fax: (852) 2319 2631

www.spectratech.com



FCC RF EXPOSURE INFORMATION:

WARNING!! Read this information before using your EFT POS

In August 1986 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this EFT POS complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas modifications, or attachments could impair call quality, damage the EFT POS, or result in violation of FCC regulations. Do not use the EFT POS with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION:

This device was tested for typical body-worn operations with the back/front of the EFT POS kept 0cm from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0cm must be maintained between the user's body and the back/front of the EFT POS, including the antenna. Third-party belt-clips, holsters and similar accessories containing metallic components shall not be used. Body-worn accessories that cannot maintain 0cm separation distance between the user's body and the back/front of the EFT POS, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

Your EFT POS is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless EFT POSs. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

<ANSI C95.1> (1992) / <NCRP Report 86> (1986) / <ICNIRP> (1999)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1). Nevertheless, we recommend that you use a hands-free kit with your EFT POS (such as an earpiece or headset) to avoid potential exposure to RF energy. The design of your EFT POS complies with the FCC guidelines (and those standards).

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the EFT POS and may violate FCC regulations.

NORMAL POSITION:

Hold the EFT POS as you would any other EFT POS with the antenna pointed up and over your shoulder.

RF Exposure Information:

This product is compliance to FCC RF Exposure requirements and refers to FCC website <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID: VWZT1000A5WCDMA

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

NOTE: 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