
 Make sure that you use the correct AC power adapter supplied with the terminal. Many adapters can appear similar and will plug into the terminal but will not work properly causing erratic behavior, poor charging or even damage to the unit.

#### 2.4.2 Normal use:

-  1. After a full charge the Terminal in normal usage is expected to provide 50 or more transactions before the terminal has to be returned to the base for charging. Slow printing or a message <<-BAT->> on the display followed by beep usually indicates the battery is low
2. This terminal has a “reserve” capability in the event that more transactions are occasionally needed. As long as the print time is acceptable the Terminal will provide additional transactions beyond normal. The effect will be continued slowdown of the printer as well as a longer recharge cycle.
3. Do not use a “Fast Charging Base” if the terminal is returned to the base after each transaction. The batteries may be damaged and their life time reduced. A fast charging base should be used to charge battery pack ONLY when there is slow printing or a message <<-BAT->> displays otherwise use slow charging base.

#### 3. Cleaning procedure:

1. Clean the outside of the terminal with a soft cloth moistened with a mild detergent solution.
2. Never spray cleaning solution directly onto the terminal as drops may enter the unit.
3. Do not use Isopropyl Alcohol based cleaning products.

#### 4. Technical specifications:

##### 4.1 Terminal Features:

- Magnetic card reader, ISO1 and ISO2 tracks decoding.
- 18 key, backlit tactile feedback keyboard with audible tone and color coding.
- Battery backed-up calendar and clock.
- RS232 communications channel.
- Logical and physical security.
- Multi-application operating system allowing each application to be downloaded independently of all others.

#### 4.2 Network:

The terminal is equipped with an RF modem for exchanging data over one of the following networks:

1. Rogers Network.
2. CDPD

#### 4.3 Power supply:

The power adapter is mainly used for charging the internal NiMh battery.

Power input voltage : 100-220V AC.  
Power input frequency : 50-60 Hz.  
Power output : 11V DC, 1.5A

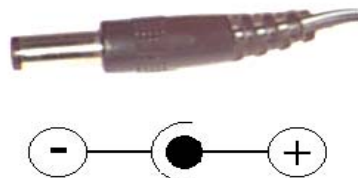


Figure 4: DC Plug

#### 4.4 Operating environment

Operating temperature : 5 to 40°C  
Humidity: 5% to 90% RH, with no condensation.

#### 5. Thermal Paper Specification:

The following specifications identify the thermal paper roll that must be used with Elite 790 Terminals:

- Single ply thermal sensitive - POS or facsimile grade.
- Basis Weight:  
(lb/rm 17 ins. X 22 ins. - 500) --- 14.5 +/- 5%  
(GSM) --- 55 +/- 5%
- Caliper: 2.4 +/- 0.2 Mils or 60 +/- 5 Microns
- Brightness: Min. 85%
- Smoothness (Bekk Minimum): 300 s
- Roll Width: 2.25 +/- 0.020 in (58 mm +/- 0.5 mm).
- Roll Diameter: 2.0 in (51 mm) maximum.
- Roll Core ID: 0.500 in (13 mm) nominal.
- Roll Core OD: 0.625 in (16 mm) nominal.

For best performance, Ingenico recommends  
The following sources/barnds:  
KANZAKI P300  
APPLETON T1012A  
KOEHLER K55

#### 5.1 Storage Recommendation for Thermal Paper:

Thermal paper should NOT be exposed to vinyl, Plastics, adhesives, shrink-wraps, wet-toner copies or certain carbon papers, office light, UV light, high humidity and temperature (above 65%, 25C) for long periods of time.

#### 7. If you experience problems :

Call one of the customer service centers listed below:

##### In Canada:

RBA Inc.  
3190 Orlando Drive  
Mississauga, Ontario  
L4V 1R5  
1-800-387-3938  
or (905) 672-1048

##### In the USA:

Ingenico Inc.  
TotalCARE  
1335North Meadow  
Parkway, Suite 116  
Atlanta GA 30076  
1-800 – 435-3014

#### US Federal Communications Commission (FCC) Warnings:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

#### Canadian Department of Communications (DOC) Warnings:

This digital apparatus does not exceed the Class A limits for radio noise emissions from the digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.



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# Elite 790 Installation Guide

0130-00031-0100

## 1. Terminal description:

### 1.1 Introduction:

The Elite 790 is a fully self-contained RF EFTPOS terminal with an integrated printer and the functionality to process all smart card, debit and credit purchases. The terminal communicates with the bank using the RF data network or using Fast Charging or Slow Charging Base through Telephone network. This RF network is similar to that used for mobile phones except that it is for data only. The terminal features a secure, multi-application operating system, which allows a number of different applications to run on the terminal independently, without jeopardizing software security.



### 1.2 The Terminal:

The Elite 790 terminal has the following peripherals:

#### 1.2.1 Display:

Standard 4 line x 16 character LCD graphic display, with back lighting.

#### 1.2.2 Keypad:

- 18 keys, with back lighting, with the following special function keys:
- F1, F2, and F3 keys: Programmable keys which permit access to terminal level functions and the system menu.
- Paper Feed key: Performs a 20mm paper feed.
- ENTER key: is used to confirm the data entered or displayed.
- CAN key: is used to cancel the current function and return the terminal to the idle state.
- CORR key: is used to correct any invalid data entry.

- ADMIN key: is used to access the terminal administration function menu.

#### 1.2.3 Magnetic Stripe Card Reader:

This is a bi-directional reader capable of simultaneously reading Tracks 1&2, and is located just above the display. The Magnetic Stripe on the card should face down and to the rear of the terminal. The card should be swiped at uniform speed and pressure, ensuring that the card remains in contact with the bottom of the track throughout the entire swipe action.

#### 1.2.4 Modem:

The Modem facilitates data exchange over an RF network.

#### 1.2.5 Printer:

The built-in printer is a high-speed thermal printer (6 lines per second) and is graphics compatible.

#### 1.2.6 Smart Card Reader:

Complies with standard ISO 7816, Sync & Async. The terminal is equipped with a Smart Card Reader slot at the front of the terminal for future use.

### 1.3 The Slow/Fast Charging Base:

There are slow or fast charging base. They have two functions:

- Used as interface of telephone network communication and downloading applications.
- Used as interface of alimentation (recharge battery and direct power).

### 1.4 Package may contents are as follows:

1. The Elite 790 terminal.
2. Desk top power adapter for charging the Ni-Mh battery.
3. Slow or Fast charging base.
4. Thermal printer paper, one roll.
5. Installation guide.

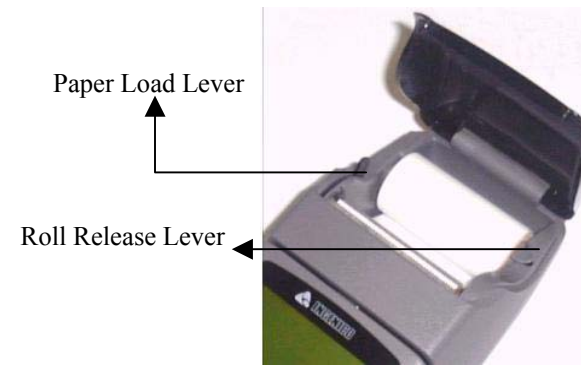
## 2. Installation procedure:



**Important Note:** Before using the terminal for the first time, the battery pack must be fully charged. This is indicated by a green light on the base which TURNS OFF when battery pack is fully charged. (See Paragraph 2.4)

### 2.1 Paper loading (If required):

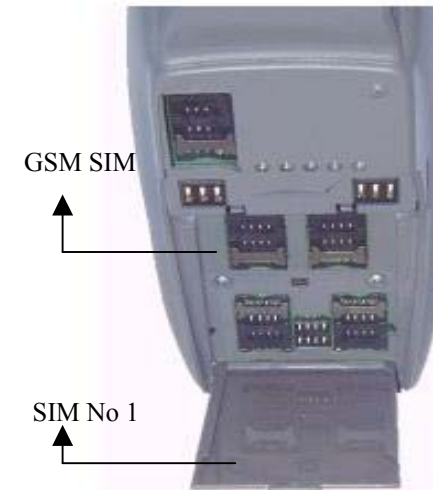
1. Open the paper compartment cover.
2. Move the paper load lever forward to disengage the friction roller.
3. Remove the empty paper roll by pressing the roll release lever on the right hand side.



4. Position the paper roll with the end of the roll protruding from UNDERNEATH the roll.
5. Feed the paper under the printer's roller until it protrudes from the top of the printer.
6. Fit the paper roll to the spindle and move the paper load lever back to engage the friction roller.
7. Close the cover and test the operation of the printer by Pressing Paper Feed key.

### 2.2 SIM Installation:

Access to the optional SIM slots is through the battery Door located on the underside of the terminal. Access to GSM SIM is through a "trap door" which slides **only** When the battery pack is removed.



To unlock the SIM holder, slide the metal clasp away from the center of the unit. Swing the SIM holder up. Insert the SIM card in between the metal clasp and the plastic holder, with metal plate facing down. Swing the SIM holder down. To lock the SIM card in place, slide the metal clasp in toward the center of the unit.

### 2.3 Base Connection



### TELEPHONE CONNECTION

The compact telephone cable connection supplied with the Elite terminal must be connected to the port Marked with the symbol . The telephone connection (RJ11) must be connected to the telephone socket in the wall.

### ELECTRICAL CONNECTION

The small jack connection to the power pack is plugged into the port marked with the symbol . The twin pronged electrical plug is connected into wall electrical socket.

### CONNECTION TO AN EXTERNAL DEVICES

Some peripheral devices such as a cheque readers can also be connected. The ELITE 790 terminal must be powered off before connecting the cable on the base to the RS232 port.

### 2.4 Battery charging procedure:

#### 2.4.1 Charging the battery pack:

1. After unpacking it is important to provide an initial charge. This conditioning cycle is required for the battery pack to reach full capacity quickly.
2. Connect the AC power to the slow or fast charging base using the supplied power pack designed for this terminal. Place the Elite 790 terminal or standalone battery pack on top of the slow or fast charging base. The terminal will power-up and remain on throughout the charging period. The green indicator at front of the base turns off once terminal or standalone battery pack is fully charged.