


## 2.5 Battery charging procedure:

### 2.5.1 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 the Elite 790. Place the Elite 790 terminal or standalone battery pack on 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 FAST charging base turns off once the battery pack is fully charged. On the other hand, the green indicator at front of the SLOW charging base will always be ON.

 Make sure that you use the correct AC power adapter supplied with the Elite 790. Many adapters can appear similar and will plug into the Elite 790 base but will not work properly causing erratic behavior, poor charging or even damage to the unit.

### 2.5.2 Normal use

1. After a full charge the Elite 790 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 and the low battery message on the display followed by the beep indicates the battery needs recharging.
2. The Elite 790 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 a continued slowdown of the printer as well as a longer recharge cycle.
3. Fast Charging Base is designed for quick and uninterrupted battery charging. If the Elite 790 terminal is removed from the fast charging base for more than 10 seconds, charging is reinitiated. When the battery is fully charged, the green LED at the front of the base will turn OFF. Do not use the fast charging base for frequent and short battery charging (between each transaction) – this may damage the battery and reduce its lifetime. To optimize the life of the battery pack, charge it with the fast charging base when the low battery message appears on the terminal, or when the printing speed is reduced.

### 3. Cleaning procedure:

1. Clean the outside of the Elite 790 with a soft cloth moistened with a mild detergent solution.

2. Never spray cleaning solution directly onto the Elite 790 as liquid may enter the unit.
3. Do not use Isopropyl Alcohol based cleaning products.

## 4. Technical specifications:

### 4.1 Network:

The Elite 790 is equipped with an RF modem for exchanging data over one of the following networks:

1. GPRS
2. CDMA

### 4.2 Power supply:

The power adapter is mainly used for charging the internal Ni-MH battery.

Power input voltage.....: 100-220V AC.

Power input frequency .....: 50-60 Hz.

Power output .....: 11V DC, 1.5A



Figure 4: DC Plug

### 4.3 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 the best performance, Ingenico recommends the following sources/brands:

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.

## 6. 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  
1335 North 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.



### Ingenico Inc.

1003 Mansell Road, Atlanta, GA 30076  
Tel: 770.594.6000 Fax 770.594.6003

[www.ingenico-us.com](http://www.ingenico-us.com)

### Ingenico Canada Ltd.

79 Torbarrie Road, Toronto, Ontario – Canada M3L 1G5  
Tel: 416.245.6700 Fax: 416.245.6701

[www.ingenico-ca.com](http://www.ingenico-ca.com)



# Elite 790 Installation Guide



D1V0741A 364x75

0130-03460-0400

## 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 via the telephone network by using a Fast or Slow Charging Base. This RF network is similar to that used for mobile phones except that it supports data as well. 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 features:

#### 1.2.1 Display:

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

#### 1.2.2 Navigation Button:

Allows scrolling through options and selection of the desired option.

#### 1.2.3 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.

### 1.2.4 Magnetic Stripe Card Reader:

This is a bi-directional reader capable of reading simultaneously Tracks 1&2, and it is located just above the display. The Magnetic Stripe on the card should face down and to the rear of the Elite 790 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.

### 1.2.5 RF and Telephone Modem:

The modem allows data exchange over an RF network.

### 1.2.6 Printer:

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

### 1.2.7 Smart Card Reader:

Complies with standard ISO 7816, Sync & Async and EMV Level 1. The Elite 790 is equipped with a Smart Card Reader slot located at the front of the terminal.

### 1.2.8 RS232:

The RS232 port allows download of customer applications and connection of external peripherals.

### 1.2.9 Hands Free Connector:

Jack for the hands free kit (earpiece and microphone).

## 1.3 The Slow/Fast Charging Base and Slow Charging Vehicle Base:

Three bases are available: slow charging base, fast charging base and slow charging vehicle base. The slow charging vehicle base is used only for charging the terminal's battery. The slow & fast charging bases have an interface to the telephone network, support applications downloading and the battery recharging.


### 1.4 Elite 790 Terminal Package Contents:

1. The Elite 790 terminal with a battery pack.
2. Thermal printer paper, one roll.
3. Installation Guide

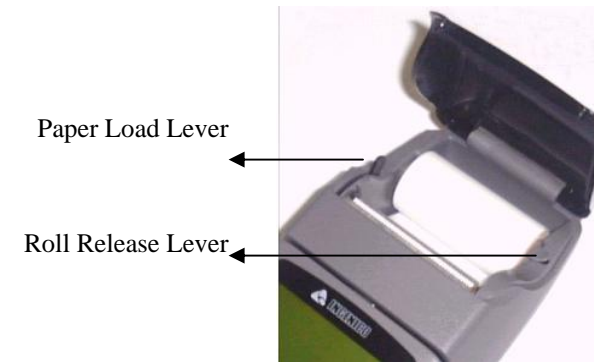
### 1.5 Elite 790 Charging Base Package Contents:

1. The Elite 790 base (slow, fast or vehicle charging).
2. Installation Guide.
3. Cable from Vehicle Base to car battery
4. 4 mounting screws for Vehicle Base
5. Power supply (not supplied with the vehicle base).
6. Phone cable (not supplied with the vehicle base).

## 2. Installation procedure:

 **Important Note:** Before using the Elite 790 terminal for the first time, the battery pack must be fully charged. The battery must be charged at least 2 hours if the fast charge base is used, or 16 hours if the slow or vehicle slow charge base is used.

## 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 Elite 790 terminal. Access to the GSM SIM is through a "trap door" which opens **only when the battery pack is removed**.




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


## 2.3 Slow/Fast Charging Base Connection



### TELEPHONE CONNECTION

The telephone cable used with the Elite 790 must be plugged into the base port marked with the symbol . The other end of the cable must be connected to a wall telephone jack.

### POWER CONNECTION

The radial connector on the power pack must be plugged into the port marked with the symbol . The two prong electrical plug must be connected in the wall electrical socket.

### CONNECTION TO AN EXTERNAL PERIPHERALS

Peripheral devices can be connected to the RS232 port of the Elite 790. The Elite 790 base and terminal must be powered off before connecting the cable to the RS232 port.

## 2.4 Vehicle Slow Charging Base Connection



This must be connected directly to the vehicle 12VDC battery through an appropriate cable. Alternatively an optional cigarette lighter adapter is available. Make sure to use the cigarette lighter adapter provided by INGENICO. Other brands may prevent proper operation or damage the Elite 790 terminal and base.