6.3 Power supply:
The power adapter is mainly used for charging the internal NiCd battery.

Power input voltage	: 120V AC.
Power input frequency	: 60 Hz.
Power output	: 12V DC, 500mA.

Figure 4: DC Plug

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

7.0 Thermal Paper Specification:
The following specifications identify the thermal paper roll that is used with Elite 780 terminals:

- Single ply thermal sensitive - POS or facsimile grade.
- Thickness: .009 in (0.25 mm) maximum.
- 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.

1003 Mansell Road ·   Atlanta, GA 30076
tel: 770.594.6000 ·   fax 770.594.6003

79 Torbarrie Road ·   Toronto, Ontario, Canada M3L 1G5
tel:416.245.6700 ·   fax: 416.245.6701

www.ivicheckmate.com

8. If you experience trouble :

Call one of the customer service centers listed below:

In Canada:	**In the USA:**
RBA Inc.	IVI Checkmate Inc.
3190 Orlando Drive	TotalCARE
Mississauga, Ontario	1335 North Meadow
L4V 1R5	Parkway, Suite 116
1-800-387-3938	Atlanta GA 30076
or (905) 672-1048	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.

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.

Elite 780
Installation Guide

0130-07056-0300

1. Terminal description:

1.1 Introduction:

The Elite 780 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. This 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 780 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.

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 (4 lines per second) and is graphics compatible.

1.2.6 Smart Card Reader:

Complies with standard ISO 7816, Sync & Async.

1.3 Package contents are as follows:

1. The Elite 780 terminal.
2. RF antenna.
3. Wall mount power adapter for charging the NiCd battery.
4. Thermal printer paper, one roll.
5. Installation guide.

2. Installation procedure:

Important Note: *The battery must be charged for 24 hours before using the terminal for any purpose including key injection, program loading or customer use. (See Paragraph 2.3)*

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 Connecting the RF antenna:

1. Place the RF antenna connector over the coaxial screw mount located on the back panel. Make sure the wire within the connector fits into the small hole in the coaxial mount.
2. Tighten the connector by turning the antenna attachment clockwise.
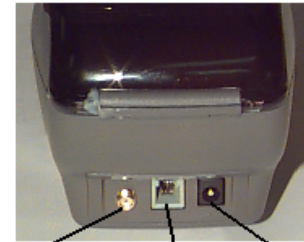
2.3 Battery charging procedure:

2.3.1 At Installation:

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 terminal to AC power using the supplied power pack designed for this terminal. You will know the terminal is receiving AC power when the display stays on continuously. The terminal must be charged continuously for 24 hours.

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.

2.3.2 Normal use:

1. After a full charge the Terminal in normal usage is expected to provide 50 or more transactions before a recharge is required. Slow printing 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. In normal use the charge time is 12 hours. After extended use the terminal will require additional charge time, not exceeding 24 hours.
4. If the terminal has been inactive a number of weeks it may require another 24 hour initial charge.

3. The Card Reader:

Terminal is equipped with a bi-directional Magnetic Stripe Reader located immediately 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.

4. Smart Card Reader:

The terminal is equipped with a Smart Card Reader slot at the front of the terminal for future use.

5. 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.

6. Technical specifications:

6.1 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.
- Multi-application operating system allowing each application to be downloaded independently of all others.
- Logical and physical security.

6.2 Network:

The terminal is equipped with an RF modem for exchanging data over one of the following networks:
1. MOBITEX.
2. CDPD
3. ARDIS (DataTac) – future option.