

DIAL LINE and PHONE CONNECTIONS

The I7770 ports marked LINE and are identical.

Use either one of these ports to connect the Ingenico 7770 modem to the telephone line: plug the one end of a telephone cable into the port, and connect the other end of a cable to a wall telephone jack.

Use remaining port to connect the phone, fax or other device that will share the same phone line with Ingenico 7770: plug the one end of a telephone cable in the available Ingenico 7770 port (LINE or), and plug the other end of the cable in a device.

PERIPHERAL/HOST CONNECTION

Turn off the Ingenico 7770 base. Connect the serial cable to the base port marked **COM2** or **COM3**. Plug the other end of the serial cable to the device (PC, check reader etc.). For detailed instructions, ask the equipment supplier.

• POWER CONNECTION

Plug the power adapter radial jack into the Ingenico 7770 base port marked . The green light on the front right hand side of the base indicates the power is on.

Attach the cable securing plate and fix it with a screw.

3.6. Changing the printer paper:

When the red stripe on a paper appears, replace the paper: Remove the Ingenico 7770 from the base and wait till it turns off, do not touch the printer parts. Be aware of the sharp paper cutter.

- 1. Push the button on the paper compartment cover toward the back and lift the cover.
- Remove the empty paper roll and insert the new roll, the paper protruding from UNDERNEATH the roll.





3. To close the cover, press it until it snaps. Press the "Paper feed" key to verify that paper feeds properly.

4. Normal Operation:

To extend the battery life, the Ingenico 7770 hand held terminal goes into a stand-by mode when it is not on its base. To quickly power on the hand held terminal:

- Press the green <ENTER> key, or
- Place the hand held briefly on the base.

The symbol in the upper left hand corner of the screen indicates that the hand held terminal is assigned to

its base and it is in the range (the search phase typically lasts less than 10s).

The message \blacksquare -RANGE- \blacksquare appears when the radio link is not available:

- The hand held terminal is out of range.
- The terminal is scanning for the base while initiating communication.
- The hand held terminal is configured with the wrong base s/n. Go to the SYSTEM MENU, select the "RADIO CONFIG" and run "MOD RADIO PARA".
- The radio base is not powered up.

The message ■-BUSY-■ appears when the hand held terminal tries to connect to a base while it communicates with another terminal. Wait until the base becomes available.

The message **FULL** appears when the maximum number of terminals configured for a base is exceeded.

Remove the extra terminals from the network, power off the radio base and turn it back on to reinitialize.

5. Cleaning procedure:

The Ingenico 7770 must be off for all cleaning operations. Do not clean the I7770 with water but with a dry or only slightly damp cloth. Do not use solvent, detergent or abrasive products. If the terminal has the battery recharging or communication problems (the message "No tone" is printed out), clean the golden contact under the terminal with a damp cloth. Do not scratch or scrape the surface of the contacts.

6. Technical specifications:

The Ingenico 7770 uses a low power (20dB, ≤100mW) radio technology with frequency hopping in the 2.45Ghz ISM band. Ingenico 7770 range is around 100m (open field).

6.1. Power supply:

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

•INPUT	AC	120V	60Hz
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6.2. Thermal Paper Specification:

- Single ply thermal sensitive POS or facsimile grade.
- Basis Weight:

(lb/rm 17 ins. X 22 ins. - 500) --- 14.5 \pm 5% (GSM) --- 55 \pm 5%

KANZAKI	P30
APPLETON	T1012A



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. <u>If you experience problems</u>:

Call one of the customer service centers listed below:

In Canada: In the USA:

RBA Inc. Ingenico Inc.

3190 Orlando Drive TotalCARE

Mississauga, Ontario
L4V 1R5 Atlanta, GA 30076

1-800-387-3938 1-800-435-3014

or (905) 672-1048

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 installation guide, 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.

Warning: Changes or modifications not expressly approved by Ingenico 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.

RF Exposure Warning

To comply with RF exposure requirements the base unit must be installed and operated with a separation distance of 20 cm or more between the device and all person's body (excluding extremities of hands, wrist and feet). The terminal unit has been tested and meets RF exposure guidelines for hand held operation pursuant to FCC OET Bulletin 65 Supplement C ed. 01-01, IEEE 1528/D1.2 (2003) and Industry Canada RSS-102 (1999). The base and terminal units must not be co-located or operated in conjunction with any other antenna or transmitter.

ACTA Revision Part 68

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council for Terminal Attachments (ACTA). On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US: IN2DT00B17770. If requested, this number must be provided to the telephone

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.

The Ringer Equivalence Number (REN) is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this INGENICO 7770 does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Industry Canada Warning:

NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is <0.0>. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.



Ingenico Inc.

1003 Mansell Road, Atlanta, GA 30076 Tel: (770) 594 – 6000 Fax: (770) 594 – 6003 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





Ingenico 7770 Installation Guide



1. Ingenico 7770 description:

The Ingenico 7770 is a fully self-contained, portable point of sales electronic payment terminal designed to process the debit, credit and smart card purchases.

Ingenico 7770 features a new ergonomic design with a friendly interface: an easy loading high-speed printer, a graphic display, back lit keyboard and easily accessible battery (for a fast installation and replacement) with an intelligent battery charging management. The Ingenico 7770 is environment friendly with a light packaging, recyclable plastic and non-polluting batteries.

The Ingenico 7770 communicates with the bank through its base via the telephone network. The hand held terminal and the base communicate through the 2.45 GHz radio link, or via direct contact. A network can be set up, with one base managing up to 7 terminals at the same time. The base allows connection to various peripherals 1.5. Printer: through its RS-232 ports.

The I7770 features a secure, multi-application operating system (UNICAPTTM technology) permitting several applications to run independently on the same terminal.



The Ingenico 7770 has the following features:

1.1. Display:

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

1.2. Kevpad:

18 keys, with a back light. The special function keys are:

- Programmable function keys <F1>, <F2> and <F3> for navigation and access to various Ingenico 7770 functions and the system and application menus.
- Paper Feed key is used for a printer paper feed (20mm) The green <ENTER> key confirms the data entered or displayed. It also powers on the Ingenico 7770.
- The red <CAN> key cancels the current function and returns the terminal to the idle state.
- The yellow <CORR> key corrects invalid data entry.
- Blue <ADMIN> key is used to access the terminal

administration function menu.

1.3. Magnetic Stripe Card Reader:

17770 features a bi-directional reader capable of reading tracks 1 and 2 simultaneously. The reader is located on the right-hand side of the Ingenico 7770. The card can be swiped from the bottom to the top, or from the top to the bottom. The magnetic stripe on the card has to face down and toward the Ingenico 7770. The card has to 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.

1.4. Smart Card Reader:

The smart card reader complies with the ISO 7816, Sync and Async T=1 & T=0 and is EMV approved. Insert the smart card horizontally into the slot on the front of the Ingenico 7770, the microchip facing up, and leave it in the reader throughout the transaction.

The Ingenico 7770 integrates a quiet, high speed, "easy-load" style thermal printer with graphics capability.

1.6. Battery:

Rechargeable and easily replaceable intelligent Ni-MH battery pack (optional Lithium-Ion battery available).

1.7. SAM Connectors:

Three SAM card connectors are located on the bottom of the Ingenico 7770. The SAM (Secure Access Module) supports smart card chips necessary for applications such as loyalty.

1.8. Full ISO Format Card Connector:

The full format card is used to identify a merchant. The card is required for certain applications.

1.9. The Base

The Ingenico 7770 communicates with its base via radio link, or through the contacts (connect mode) which is useful when loading large amount of data, or when a radio link is unavailable.

The base provides recharging system for the intelligent battery pack, and includes the communication ports:

- COM2 and COM3:

Two RS-232 serial communication links for the customer applications download and for the communication with the external peripherals (speed 300 to 115200 bps).

- DIAL LINE and TELEPHONE Ports:

The V34 / 33600 bps (asynch. and synchr.) modem that supports fast connect and busy line detection.

The ports allow sharing of the telephone line with other devices such as a fax machine or telephone.

Ingenico 7770 Packaging Content:

- 1. The Ingenico 7770 hand held terminal.
- 2. The Ingenico 7770 battery pack.
- 3. Thermal printer paper, one roll.
- 4. The Ingenico 7770 base (optional, radio or charging).
- 5. The power supply (optional, with the base only).
- 6. The phone cable (optional, with the radio base only).

- 7. The cable securing plate and a screw (optional, with the base only).
- 8. This installation guide.

Installation procedure:

Place the Ingenico 7770 base on a clear, flat surface near the electrical and telephone sockets. The ideal location is in the center of the zone to be covered with a large open area around. The antenna is inside, on the left side of the base.

The Ingenico 7770 hand held and the base must be protected against high temperature, vibrations, dust, damp and electromagnetic radiation (computer screen, microwave oven, anti-theft barrier etc.). Equipment such as cordless and cellular phones can emit harmonics that could disturb the terminal at 2.45 GHz.

Do not place the base near a great vertical metal plane (doors of refrigerator, large home appliances, vending machines).

Do not place the base or the terminal closer than 3 m from any microwave oven in use.

Do not dock the hand held terminal on a metal surface.

Do not put the hand under the printer during communication, the range is strongly reduced.

If there are several radio bases installed, position them at least 2 meters from each other.

Operating temperature+5°C to +40°C **Humidity**20% to 90% without condensation Storage temperature.....-10°C to +60°C

3.1. Battery Set up and Charging:

The Ingenico 7770 is supplied with a removable rechargeable NiMH (or optional lithium-ion) battery. Only use the battery pack supplied with your terminal.

Ingenico 7770 battery is built with a circuitry for a battery charging management. To charge the battery, place it (alone, or with the terminal) on the Ingenico 7770 base. Ensure the base is powered up. Note that the battery will recharge only if necessary. Furthermore, the battery has internal temperature control so it never exceeds 50°C.

Use the power adapter supplied with the Ingenico 7770. Many adapters can appear similar and will plug into the Ingenico 7770 base but will not work properly causing erratic behavior, poor charging or even damage to the unit.

The Ingenico 7770 with a fully charged battery can execute up to 200 transactions (depending on the ticket size and transaction duration).

The Ingenico 7770 displays the battery status:

1 bar represents 25 % of full capacity
2 bars represent 50 % of full capacity
3 bars represent 75 % of full capacity
4 hars represent 100 % of full capacit

Charge the battery for 3 hours when it is used the first time. Full charging time after the first time is 2 hours. A new battery will benefit from an initial "conditioning": for the

first 3 charge cycles, allow the battery to fully discharge and then charge it to its full capacity.

Do not place the Ingenico 7770 terminal back on its base after each transaction. Frequent and short battery charging may damage the battery and reduce its lifetime.

Every one to two months allow the Ingenico 7770 to show the low battery warning and shuts down. Then charge the battery to its full capacity. This will prolong the battery life. Batteries that sit idle for extended periods of time without charging, will gradually self-discharge.

3.2. Installing the Battery:

Leave the Ingenico 7770 handheld terminal off its base and wait to turn itself off before handling the battery pack. Hold the battery with the connectors facing downwards, do

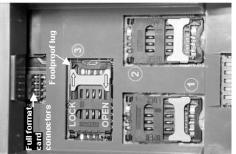
not touch the contacts on the battery or Ingenico 7770.



Insert two plastic teeth in the gaps on the Ingenico 7770 case, place the battery in a cavity and press the handle until a click is heard.

3.3. SAM Installation:

Wait till the Ingenico 7770 turns off and remove its battery. Unlock the SAM connector by sliding the metallic latch in the direction of the OPEN arrow. Lift the SAM cover upward and insert the chip as shown on the picture below. Swing the cover down and slide the latch in a lock position (the LOCK arrow). Put the battery in the Ingenico 7770.





3.4. Merchant Card Installation:

Remove the battery and slide the card into the housing. Put the battery pack back in the place.

3.5. Connections:

Turn the Ingenico 7770 base off when connecting peripherals. The power supply must be connected last, only after all the other connections are made.