

Lane/7000



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1_Introduction

Thank you for choosing an Ingenico payment terminal.

We recommend you to read carefully this user guide: it gives you the necessary information about safety precautions, unpacking, installation and maintenance of your terminal.

WARRANTY / SECURITY

To benefit from the guarantee-related product, and to respect the security, we ask you to use only the power supply delivered in box with the product, entrusting maintenance operations only to an authorized person. Failure to comply with these instructions will void the manufacturer's responsibility.



This symbol indicates an important Warning.



This symbol indicates a piece of advice.

2_Unpacking

According to the model, the following items are included in the packaging box (including optional accessories):

The terminal



The box may also include the following items depending on your working configuration:

- An installation guide
- Cable (specific to connectivity requirements)
- Power supply unit and power cord
- A stylus
- Modules
- Screws to fix the main cable and the module



CAUTION

The power supply unit provided with your equipment is specially designed for it. Do not use any other power supply.



ADVICE

Keep the packaging. It must be re-used whenever the terminal is shipped.

3_Recommendations

3_1 Safety

Power on/Power down - Emergency stop

To power on or power down the terminal, connect or disconnect the power supply from the electric outlet.

Power supply unit



CAUTION

Only use the power supply AC/DC provided with Lane/7000 or the power provided by a cash register limited power source (LPS).

CAUTION



Lithium battery cell

The terminal is fitted with a lithium battery cell which is not accessible to the user. Only a qualified technician is authorized to open the unit and change this component. Risk of explosion if the battery is replaced by an incorrect type. Dispose of used battery according to the instructions.

Electrical power supply network

The electrical outlet must meet the following criteria:

- Must be installed near the equipment and easily accessible;
- Must meet standards and regulations in the country of use.

Explosion areas

Certain regulations restrict the use of radio equipment in chemical plants, fuel depots and any site where blasting is carried out. You are urged to comply with these regulations. The terminal shall be protected by a specially fitted and certified cover enabling use in proximity to a fuel pump.

Connection of headset 4 b on audio jack



CAUTION

An excessive acoustic pressure of headset can involve deafness!



WARNING

We recommend to the customer to provide guidance to the cardholder as to avoid having his card close to any magnets on the device since the card may be damaged. There is one magnet in the stylus and another in its holder.

3_2 Security of your terminal (tampering attempt detection)

Your device fulfils current applicable PCI PTS security requirements. Upon receipt of your terminal you should check for signs of tampering of the equipment. It is strongly advised that these checks are performed regularly after receipt. You should check, for example: that the keypad is firmly in place; that there is no evidence of unusual wires that have been connected to any ports on your terminal or associated equipment, the chip card reader or any other part of your terminal. Such checks would provide warning of any unauthorised modifications to your terminal, and other suspicious behaviour of individuals that have access to your terminal.

Your terminal detects any "tampered state". In this state the terminal will repeatedly flash the message" Alert Irruption!" and further use of the terminal will not be possible. If you observe the "Alert Irruption!" message, you should contact the terminal helpdesk immediately.

You are strongly advised to ensure that privileged access to your terminal is only granted to staff that have been independently verified as being trustworthy.

The terminal must never be put in or left at a location where it could be stolen or replaced by another device.

as being trustworthy.

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WARNING

If the warranty label is torn or removed, the warranty will be void.

CAUTION

Positioning of the Lane/7000 on check stand must be in such a way to make cardholder PIN (Personal Identification Number) spying infeasible.



Installing device on an adjustable stand must be in such a way that consumers can swivel the terminal sideways and/ or tilt it forwards/backwards to a position that makes visual observation of the PIN-entry process difficult.

Positioning of in-store security cameras such that the PIN-entry keypad is not visible. NEVER ask the customer to divulge their PIN Code. Customers should be advised to ensure that they are not being overlooked when entering their PIN Code.



CAUTION

This equipment may not be modified, altered or changed in any way without signed written permission from Ingenico

3_3 Main Characteristics

3 3 1 Terminal

Weight (Poids, Gewicht)	583g (20.56 oz)
Size (dimensions, Maße)	181 (L) x 152 (W) x 35.2 (H) mm
Display	5" backlit LCD, WVGA (800 x 480 pixels)
Touchscreen	Capacitive

Operating conditions

Ambient temperature	from 0°C to +45°C
Max relative humidity	85% RH non-condensing at +40°C
Max altitude	2000 m

Storage conditions

Storage temperature	-20°C, +55°C
Max relative humidity	85% at +55°C

3_3_2 Power characteristics

Power supply units

The Lane/7000 can be powered by several ways:

- An external power supply unit
- By POE (Power over Ethernet)
- By USB (12VDC)

POE (Power over Ethernet)

The power sourcing equipment must be compliant with IEEE802.3af standard, class 0 which means 12.95W max. POE implementation in the Lane/7000 can support both mode A and mode B.

A İ

WARNING

The power supply unit provided with your equipment is specially designed for this Ingenico terminal. Do not use any other power supply. The use of a power supply with apparently similar voltage/current characteristics may damage your terminal.



AVERTISSEMENT

Dans le cas où vous choisiriez d'utiliser un bloc alimentation, assurez-vous de n'utiliser que le bloc d'alimentation qui a été conçu spécialement pour votre terminal. N'utilisez pas d'autre bloc d'alimentation. L'emploi d'un bloc d'alimentation présentant des caractéristiques apparemment similaires de tension/intensité peut endommager votre terminal.

Power values in different modes

Lane/7000 works at voltages between 8VDC and 12VDC.

Mode	Lane/7000 Power (W)
Idle mode - backlight OFF	3
Idle mode - backlight ON	3.7
Typical – smartcard and contactless in test - Backlight ON	5
Maximum (+2 Loads of 2.5W each)	12

10

3_3_3 Terminal Connectivity

USB	High speed USB Device in the single connector	
Ethernet	10/100 Base T Ethernet is available on the Lane/5000. It is recommanded to use TCP Protocol	
RS232	It is a 2 wire interface on the Lane/5000 (Rx/Tx). It can run up to 115200bps	

3_3_4 WLAN (2.4 GHz / 5 GHz)

Standard	802.11 a/b/g/n
Frequency band 2.4 GHz	DTS band 2400 MHz to 2483.5 MHz
Type of modulation	BPSK, QPSK, 16 - QAM, 64 - QAM
Number of channels	13 (20 MHz BW) / 9 (40 MHz BW)
Frequency band 5 GHz	5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz; 5470 MHz to 5725 MHz; 5725 MHz to 5850 MHz
Type of modulation	(D)BPSK, (D)QPSK, 16 - QAM, 64 - QAM; 256 - QAM
Number of channels	19 (20 MHz BW) / 9 (40 MHz BW)
Max output power	< 20dBm

3_3_5 BLUETOOTH

Standard	Bluetooth® + EDR
Frequency band	ISM band 2400 MHz to 2483.5 MHz
Type of modulation	GFSK, Pi/4 QPSK, 8 DPSK
Number of channels	79 (1 MHz BW)
Max output power	<4 dBm

3_4 Functional description





4_Installation & Connections

4_1 Positionning the terminals

Place the terminal with an easy access to an electrical outlet. Place the terminal away from any heat source and protected from dust, vibrations and electromagnetic radiations (away from video terminals, PC, anti-shoplifting barriers ...). The terminal is exclusively made for indoor use.

The Lane/7000 device may be mounted on a flat surface, wall, or customer stand.



CAUTION

Do not place the Lane/7000 device on a PC monitor, adjacent to an electronically active security tag deactivation system, or near other sources of magnetic fields.

The Lane/7000 device must be at least 30 centimeters (12 inches) away from an electronically active type of security tag deactivation had

- An electronically active system sends out a powerful and potentially disruptive signal to deactivate the security tag. If the Lane/7000 device is placed too close to the system's pad, or placed above the pad, the product may not work properly.
- A passive system is a permanent magnet type that does not send out a signal. This type should not affect the Lane/7000 device.

4_2 Inserting SAM (Secure access module) and Micro SD (optional)



CAUTION

Before starting, switch off the terminal by disconnecting the power supply.

Perform the following operations:

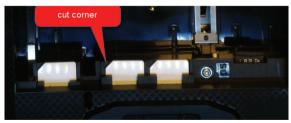
- Unscrew the modules and remove them both
- Access to SAM and Micro SD is now possible.







Insert the SAM Card into the slot marked (1), (2) or (3). Take care
to ensure that the SAM Card is inserted in the correct manner.
The cut corner must be positioned as indicated on the figure
below.



• Slide back the module and screw them tight.





CAUTION

Do not use any tools when installing or removing the SAM Card or Micro SD.



WARNING

During this operation, it is necessary to be in an ESD protected environment. As this is not very easy, it is recommended to make this operation using ESD shoes for example.

4_3 Connecting the terminal to the host



CAUTION

Connecting must be made when power supply unit is not plugged in the cable.



- Flip the terminal. There is one port on the back for power and communications.
- Connect the cable on the terminal.
- Connect the other end to the power supply unit and a Host (PC / cash register...).
- Plug the power supply into the mains.



WARNING

The main port at the back must not be used to connect an HDMI video cable. Only connect cables provided by Ingenico.

Note: 2 screws can be added (M2.5 \times 8) to hold more firmly the cable. The terminal can be connected to the host by several ways, with optional cables:

- High speed USB device
- Ethernet
- RS232

Most of the cables used with iSC and iPP ranges are compatible with the Lane/7000. We advise to check with your reseller their compatibility if you plan to replace an iSC480 / ISC250 / ISC Touch 250 by a Lane/7000. Following are some examples of accessories that can be used to connect the Lane/7000. This list is not exhaustive. Please contact your reseller for more information.

RS232 cable (optional)

Connector for terminal

References: 296114811AB (length 2m) 296114928AB (length 5m)



Power supply unit



RS232 connector

USB cable (optional)

References: 296111170AD (length 2m)
296114303AD (length 4m)

Power supply unit

Connector for terminal

USB connector

USB powered 12V cable (optional)

Connector for terminal References: 296178419AB (length 2m)



• Ethernet cable (optional)



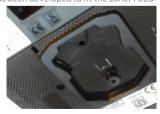
Ethernet connector

4_4 Setting the Lane/7000 on the standpole adaptor

Install the terminal on a flat surface is not possible on the Lane/7000 as is. It is designed to be fitted on a standpole adaptor.

A specific pattern by Ingenico has been developed to fit the Lane/7000.

To fit the Lane/7000 to the stand pole adaptor, it only requires to slide down the Lane/7000 until a click sound:









The Lane/7000 is now ready to use:



5_Daily use

5_1 Card reading

5_1_1 Swiping a card

 Insert the card manually in the reader, magnetic stripe facing the main body of the terminal, and slide the card from the rear to the front in a continuous motion for best results.





Swipe the card with constant speed, neither too slowly nor too fast, to maximize the reading efficiency and avoid annoying repetitions.

5_1_2 Inserting a smart card

 Chip cards should be inserted into your terminal as illustrated with the chip facing up and into the card reader.



5_1_3 Reading a contactless card

- Bring the card to the active zone above the contactless logo (at about 1cm).
- Keep the card close to the contactless logo during the transaction.



Your contactless terminal provides four contactless status lights located above the contactless logo.

- When a contactless transaction is started the first (left hand) status light will be lit steadily; this indicates that the contactless is in use but a card is not being read.
- When a contactless card is presented to the contactless active zone during a transaction the second, third and fourth status lights will be lit in turn. The card read is successful when all four status lights are lit and a confirmation tone can be heard.



CAUTION

Do not stick any label onto the contactless active zone. It can decrease seriously contactless efficiency.



CAUTION

Avoid metallic parts around the contactless area.

5_2 Signature capture

 The signature capture is done with a stylus and a capacitive touchscreen



5 3 Audio

The speaker is available, there is also an audio jack. When a headset is plugged in, there is no more sound from the speaker.

- The audio jack is located next to the card reader.
- This option is not designed to play music, but to facilitate the use by blind people.
- The jack is 3.5mm, 32 ohms impedance.

